#### **Industrial Networking Solutions**



- Industrial Ethernet
- Serial Connectivity and Networking
- Industrial Wireless
- Embedded Computing





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## **Managed Ethernet Switches**

	Managed Rackmour	at Switches	Managad DIN Dail	Switches				
	Manageu Rackmour	it Switches	Managed DIN-Rail S	bwitches				
	THE REAL PROPERTY OF	THE REAL PROPERTY.	n:11111	namen			-	-101-
	IKS-6726	IKS-6726-PoE	EDS-828	EDS-728	EDS-608	EDS-G509	EDS-518A	EDS-510A
Supported Modules			,					
Gigabit Ethernet Modules	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$				
Fast Ethernet Modules	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
SFP Gigabit Ethernet	$\checkmark$	$\checkmark$	$\checkmark$				$\checkmark$	$\checkmark$
Modules SFP Fast Ethernet Modules	$\checkmark$	$\checkmark$				$\checkmark$		
Number of Ports								
Max. Number of Ports	26	26	28	28	8	9	18	10
Gigabit Ethernet, 10/100/1000 Mbps	up to 2	up to 2	up to 4	up to 4		9	2	3
Fast Ethernet, 10/100 Mbps	up to 24	up to 24	up to 24	up to 24	8		16	7
Available Power Supplies								
3.3 VDC 24 VDC	 √							
24 VDC 24 VAC	N	√ 	√	√			√	√
48 VDC	$\checkmark$	$\checkmark$						
12/24/48 VDC					$\checkmark$	$\checkmark$		
88-300 VDC or 85-264 VAC, isolated	$\checkmark$	$\checkmark$						
Installation Options								
DIN-Rail Mounting				√		√		√
Panel Mounting Rack Mounting	 √	 V	w/ optional kit w/ optional kit	w/ optional kit w/ optional kit	w/ optional kit w/ optional kit	w/ optional kit w/ optional kit	w/ optional kit w/ optional kit	w/ optional kit w/ optional kit
Supported Operating Tem		, v	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit
0 to 60°C			$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	
-10 to 60°C								
-40 to 75°C	$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Redundancy and Backup	Options							
Turbo Ring (Recovery Time < 20 ms)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
STP/RSTP	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Automatic Backup Configurator (ABC-01)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Network Management and	d Control							
Layer 3 Switching			$\checkmark$					
IPv6 DHCP Option 66/67/82	√ √	√ √	 √		√ √		√ √	
IEEE 1588 PTP	V	V	V	V	V	V	V	V
LLDP	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Modbus/TCP	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
IGMP/GMRP		V			V		V	V
Port Trunking IEEE 802.1X	√ √	1	√ √					
Port Lock	√	V	V	1	V	1	V	V
SNMP/RMON	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
VLAN	1	1	1	V	N	1	√ 	V
QoS Relay Warning	√ √	√ √	√ √				√ √	
Regulatory Approvals	v	Y	v la		v	v	v	v
CE/FCC	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	
UL/cUL 60950-1	Pending	Pending	Pending	Pending			$\checkmark$	$\checkmark$
UL508			Pending	Pending	Pending	Pending	$\checkmark$	$\checkmark$
UL/cUL Class I, Div. 2; ATEX Class I, Zone 2			Pending	Pending	Pending	Pending	Pending	√ 1
DNV/GL NEMA TS2	Pending √	Pending √	Pending	Pending	Pending	Pending	√	√
		N N						

## **Managed Ethernet Switches**

Managed DIN-Rail Switches

	<b>- 11</b>	-					
	EDS-505A	EDS-508A	EDS-516A	EDS-405A	EDS-408A	EDS-P510	EOM-104
Supported Modules	ľ						
Gigabit Ethernet							
Modules Fast Ethernet Modules							
SFP Gigabit Ethernet						$\checkmark$	
Modules SFP Fast Ethernet							
Modules						$\checkmark$	
Number of Ports							
Max. Number of Ports	5	8	16	5	8	10	4
Gigabit Ethernet, 10/100/1000 Mbps						3	
Fast Ethernet,	5	8	16	5	8	7 (4 PoE)	4
10/100 Mbps	Ů		10	•	Ŭ	. (1102)	
Available Power Supplies 3.3 VDC							$\checkmark$
24 VDC	 √	 V	 V	 √	 √		· · · · ·
24 VAC							
48 VDC						$\checkmark$	
12/24/48 VDC							
88-300 VDC or 85-264 VAC, isolated							
Installation Options							
DIN-Rail Mounting	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$		
Panel Mounting	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit	
Rack Mounting	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit	
Supported Operating Tem	peratures						
0 to 60°C	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	
-10 to 60°C							
-40 to 75°C	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
Redundancy and Backup	Options						
Turbo Ring (Recovery Time < 20 ms)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
STP/RSTP	$\checkmark$						
Automatia Paaluun		$\checkmark$	$\checkmark$			$\checkmark$	
Configurator (ABC 01)	V	$\checkmark$	√ √	√ √		$\checkmark$	√ 
Automatic Backup Configurator (ABC-01)	$\checkmark$						
Network Management and	√ I Control	V	1	$\checkmark$	$\checkmark$	$\checkmark$	
Network Management and Layer 3 Switching	√ I Control	√	√	√	√ 	√	
Network Management and Layer 3 Switching IPv6	√ I Control  √	√  √	1	√  √	√  √	√  √	
Network Management and Layer 3 Switching	√ I Control	√	√  √	√	√ 	√	 
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82	√ I Control  √ √	√  √ √	√  √ √	<ul> <li>√</li> <li>→</li> <li>√</li> <li>√</li> <li>√</li> </ul>	√  √ √	√  √ √	
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP	√   Control     √   √   √	√ 	√ 	√ √ √ √	√  √ √ 	√ 	   
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP	√ I Control √ √ √ √ √		√ √ √ √ √	√ √ √ √	√ √ √ √	√  √ √ √ √	   
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP Port Trunking	√ I Control  √ √ √ √ √ √ √ √ √ √ √ √			√ √ √ √ √ √	√ √ √ √ √ √		     
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP Port Trunking IEEE 802.1X	✓ Control ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓			√ √ √ √ √ √ √	√ √ √ √ √ √ √ −−− −− −−		       
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP Port Trunking IEEE 802.1X Port Lock	✓ Control ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓			√ √ √ √ √ √ √ √ √	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP Port Trunking IEEE 802.1X Port Lock SNMP/RMON	✓ I Control ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	√ √ √ √ √ √ √ √ √ √ √	√ √ √ √ √ √ √ √	√ √ √ √ √ √ √ √ √		         -
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP Port Trunking IEEE 802.1X Port Lock SNMP/RMON VLAN	✓ I Control ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	√ √ √ √ √ √ √ √ √ √ √ √ √ √	√ √ √ √ √ √ √ √ √ √	√ √ √ √ √ √ √ √ √ √ √		         
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP Port Trunking IEEE 802.1X Port Lock SINMP/RMON VLAN QoS	✓ I Control ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓			√ √ √ √ √ √ √ √ √ √ √ √ √	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		         
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP Port Trunking IEEE 802.1X Port Lock SINMP/RMON VLAN QoS Relay Warning	✓ I Control ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	√ √ √ √ √ √ √ √ √ √ √ √ √ √	√ √ √ √ √ √ √ √ √ √	√ √ √ √ √ √ √ √ √ √ √		         
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP Port Trunking IEEE 802.1X Port Lock SNMP/RMON VLAN QoS Relay Warning Regulatory Approvals	√ I Control √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √			✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP Port Trunking IEEE 802.1X Port Lock SNMP/RMON VLAN OoS Relay Warning Regulatory Approvals CE/FCC	✓ Control ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	<ul> <li>✓</li> <li>✓</li></ul>		✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		         
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP Port Trunking IEEE 802.1X Port Lock SNMP/RMON VLAN QoS Relay Warning Relay Warning CE/FCC UL/cUL 60950-1	✓ Control ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		<ul> <li>✓</li> <li>✓</li></ul>	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	V       V	<ul> <li>✓</li> <li>✓</li></ul>	
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP Port Trunking IEEE 802.1X Port Lock SNMP/RMON VLAN QoS Relay Warning Regulatory Approvals CE/FCC UL/cUL 60950-1 UL508	✓ Control ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	<ul> <li>✓</li> <li>✓</li></ul>	<ul> <li>✓</li> <li>✓</li></ul>	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	V       V	√  √ √ √ √ √ √ √ √ √ √ √ √ √	         
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP Port Trunking IEEE 802.1X Port Lock SNMP/RMON VLAN QoS Relay Warning Regulatory Approvals CE/FCC UL/cUL 60950-1 UL/cUL Class I, Div. 2; AFEX Class I, Zone 2	✓ Control ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	<ul> <li>✓</li> <li>✓</li></ul>	<ul> <li>√</li> <li></li> <li>√</li> <li>Pending</li> </ul>	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	J       J <t< td=""><td>√  √ √ √ √ √ √ √ √ √ √ √ √ √</td><td>         </td></t<>	√  √ √ √ √ √ √ √ √ √ √ √ √ √	         
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP Port Trunking IEEE 802.1X Port Lock SNMP/RMON VLAN QoS Relay Warning Regulatory Approvals CE/FCC UL/cUL 60950-1 UL/cUL Class I, Div. 2; ATEX Class I, Zone 2 DNV/GL	✓ Control ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	<ul> <li>✓</li> <li>✓</li></ul>	√  √ √ √ √ √ √ √ √ √ √ √ √ √	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	J       J <t< td=""><td>√         ✓         Pending         Pending         Pending</td><td>  </td></t<>	√         ✓         Pending         Pending         Pending	  
Network Management and Layer 3 Switching IPv6 DHCP Option 66/67/82 IEEE 1588 PTP LLDP Modbus/TCP IGMP/GMRP Port Trunking IEEE 802.1X Port Lock SNMP/RMON VLAN QoS Relay Warning Regulatory Approvals CE/FCC UL/cUL 60950-1 UL/cUL 60950-1 UL/cUL Class I, Div. 2; AFEX Class I, Zone 2	✓ Control ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	<ul> <li>✓</li> <li>✓</li></ul>	<ul> <li>√</li> <li></li> <li>√</li> <li>Pending</li> </ul>	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	J       J <t< td=""><td>√  √ √ √ √ √ √ √ √ √ √ √ √ √</td><td>         </td></t<>	√  √ √ √ √ √ √ √ √ √ √ √ √ √	         

MOXA

#### **Unmanaged Ethernet Switches**

Unmanaged Rackmount Switches Unmanaged DIN-Rail Switches

	THE REAL PROPERTY AND			-	-111-	-	
	IKS-6324	EDS-G205	EDS-G308	EDS-305	EDS-308	EDS-309	EDS-316
Supported Modules		о́		о 			
Gigabit Ethernet Modules	$\checkmark$						
Fast Ethernet Modules	$\checkmark$						
SFP Gigabit Ethernet Modules	$\checkmark$		$\checkmark$				
SFP Fast Ethernet Modules			$\checkmark$				
Number of Ports							
Max. Number of Ports	24	5	8	5	8	9	16
Gigabit Ethernet, 10/100/1000 Mbps	Up to 2	5	8				
Fast Ethernet, 10/100 Mbps	Up to 24			5	8	9	16
Available Power Supplies							
24 VDC				$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
24 VAC							
48 VDC							
12/24/48 VDC	$\checkmark$	$\checkmark$	$\checkmark$				
88-300 VDC or 85-264 VAC, isolated	$\checkmark$						
Installation Options							
DIN-Rail Mounting		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Panel Mounting		w/ optional kit					
Rack Mounting	$\checkmark$	w/ optional kit					
Supported Operating Tem	peratures						
0 to 60°C		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
-10 to 60°C							
-40 to 75°C	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Regulatory Approvals							
CE/FCC	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
UL/cUL 60950-1	Pending			$\checkmark$	$\checkmark$	$\checkmark$	
UL508		Pending	Pending	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
UL/cUL Class I, Div. 2; ATEX Class I, Zone 2		Pending	Pending	$\checkmark$	$\checkmark$	$\checkmark$	Pending
DNV/GL	Pending	Pending	Pending	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
NEMA TS2	$\checkmark$						
EN50155/EN50121-4	$\checkmark$						

## **Unmanaged Ethernet Switches**

Unmanaged DIN-Rail Switches

	×	100 100 100 100 100 100 100 100 100 100		l	
	EDS-205A	EDS-208A	EDS-205	EDS-208	EDS-P308
Supported Modules					
Gigabit Ethernet Modules					
Fast Ethernet Modules					
SFP Gigabit Ethernet Modules					
SFP Fast Ethernet Modules					
Number of Ports					
Max. Number of Ports	5	8	5	8	8
Gigabit Ethernet, 10/100/1000 Mbps					
Fast Ethernet, 10/100 Mbps	5	8	5	8	8 (4 PoE)
Available Power Supplies					
24 VDC			$\checkmark$	$\checkmark$	
24 VAC	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
48 VDC					$\checkmark$
12/24/48 VDC	$\checkmark$	$\checkmark$			
88-300 VDC or 85-264 VAC, isolated					
Installation Options					
DIN-Rail Mounting	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Panel Mounting	w/ optional kit	w/ optional kit			w/ optional kit
Rack Mounting	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit
Supported Operating Tem	peratures				
0 to 60°C					$\checkmark$
-10 to 60°C	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
-40 to 75°C	$\checkmark$	$\checkmark$			$\checkmark$
Regulatory Approvals					
CE/FCC	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
UL/cUL 60950-1				$\checkmark$	
UL508	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
UL/cUL Class I, Div. 2; ATEX Class I, Zone 2	Pending	Pending			Pending
DNV/GL	Pending	Pending			Pending
NEMA TS2					
EN50155/EN50121-4					

#### **M12 Ethernet Switches**

The Sold SeriesThe Sold SeriesThe Sold SeriesThe Sold SeriesThe Sold SeriesThe Sold SeriesThe Sold SeriesEDS-305-AN2 SeriesNumarRunnar of Parts8101618885Gigable Element 101001000 Miles800101088100Gigable Element 101001000 Miles8810101088100Parts Element 101001000 Miles8810101088100Parts Element 101001000 Miles8810101010101010Parts Element 101001000 Miles810							111111	
MaxMax8101618889510100 Mage2		TN-5508 Series	TN-5510 Series	TN-5516 Series	TN-5518 Series	TN-5308 Series	TN-5308-PoE Series	EDS-305-M12 Series
MaxMax8101618889510100 Mage2	Number of Ports					,		
Gradie Liberinet, 10/100 Mike 18 a.in-cite2in-citein-citein-citeRat Ethernet, 10/100 Mike 18 a.8810168885Rest Ethernet, 10/100 Mike 10/106881016881012246110 /00111 <td>Max. Number of Ports</td> <td>8</td> <td>10</td> <td>16</td> <td>18</td> <td>8</td> <td>8</td> <td>5</td>	Max. Number of Ports	8	10	16	18	8	8	5
Power Supply         Constrained of the second of the	Gigabit Ethernet,							
12236410/0C\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f<\f< <t< td=""><td>Fast Ethernet, 10/100 Mbps</td><td>8</td><td>8</td><td>16</td><td>16</td><td>8</td><td>8 (4 PoE)</td><td>5</td></t<>	Fast Ethernet, 10/100 Mbps	8	8	16	16	8	8 (4 PoE)	5
7228511V0C 2000 VDC, 85-264 VAC 80-800 VDC99	Power Supply							
B0-300 NDC 85-284 VACVVVVInternational state of the state of	12/24/36/48 VDC	$\checkmark$	$\checkmark$		$\checkmark$	√ (LV Model)		
24 VoCVV48 VOCVVV48 VOCVVV <td< td=""><td>72/96/110 VDC</td><td><math>\checkmark</math></td><td><math>\checkmark</math></td><td></td><td></td><td></td><td></td><td></td></td<>	72/96/110 VDC	$\checkmark$	$\checkmark$					
44 WOC24 WAC	80-300 VDC, 85-264 VAC	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			
24 VAC Installation Options	24 VDC							$\checkmark$
Installation Options     W optional kit     W optio	48 VDC						$\checkmark$	
DIN-Rail Mountingw/ optional kitw/ optionali	24 VAC							$\checkmark$
Panel Mounting         V         V         V         V         V         V           Operating Temperature         U         V	Installation Options							
Operating TemperatureNNNNNN0 to 60°CNNNNNNN-40 to 75°CNNNNNN-40 to 75°CNNNNNN-40 to 75°CNNNNNNRedundary and Backup OptionsTurbs fing (Recovery Time c 20 ms)NNNTurbs fing (Recovery Time c 20 ms)NNNNNetwork Management and ControlNNNIPv6NNNNIPv6 find 66/67/82NNNNIEEE 1388 PTPNNNNIEEE 1388 PTPNNNNIEEE 102 IXNNNNPort TrunkingNNNNNPort TrunkingNNNNNPort TrunkingNNNNPort TrunkingNNNNStrippendingNNNN<	DIN-Rail Mounting	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit	w/ optional kit
One 60°C     V     V     V     V     V     V     V       Redundary and Backup Ottoms     V     V     V     V     V       Redundary and Backup Ottoms     V     V     V     V     V       Turbo Ring (Recover) Time V     V     V     V     V     V       Network Management and Control     V     V     V     V     V     V       IPV6     V     V     V     V     V     V     V       DHCP Option 66/67/82     V     V     V     V     V     V       IEEE 1888 PTP     V     V     V     V     V     V     V       IEEE 1888 PTP     V     V     V     V     V     V     V       IEEE 1888 PTP     V     V     V     V     V     V     V       IEEE 1888 PTP     V     V     V     V     V     V     V       IEEE 402.1X     V     V     V     V     V     V     V       IEEE 802.1X     V     V     V     V     V     V     V       Opt Trunking     V     V     V     V     V     V     V       Opt Trunking     V <td>Panel Mounting</td> <td><math>\checkmark</math></td> <td><math>\checkmark</math></td> <td><math>\checkmark</math></td> <td><math>\checkmark</math></td> <td><math>\checkmark</math></td> <td></td> <td><math>\checkmark</math></td>	Panel Mounting	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
-40 to 75°CIIIIIIIIReducting (Recovery Time 220 ms)IIIIIIIITurbo Ring (Recovery Time 220 ms)III <td< td=""><td>Operating Temperature</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Operating Temperature							
Redundancy and Backup OptionsTurbo Ring (Racovery Time 2 20 ms)NNNNSTP/RSTPNNNNNetwork Management and ControlNNDHCP Option 66/67/82NNNDHCP Option 66/67/82NNNIEEE 1588 PTPNNNNIGMP/GMRPNNNNIGMP/GMRPNNNNPot TunkingNNNNIEEE 802.1XNNNNPot TuckingNNNNSNMP/RMONNNNNOoSNNNNNRelay WarningNNNNNULDPNNNNNNUEEE 802.1XNN<	0 to 60°C	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Turbo Ring (Recovery Time < 20 ms)VVV<	-40 to 75°C	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
< 20 ms)NNNNII	Redundancy and Backup Optic	ons						
Network Management and Control         IPv6         V        <	< 20 ms)							
IPv6 $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\cdots$ $\cdots$ $\cdots$ $\cdots$ $\cdots$ DHCP Option 66/67/82 $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\cdots$ $\cdots$ $\cdots$ $\cdots$ IEEE 1588 PTP $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\cdots$ $\cdots$ $\cdots$ $\cdots$ LLDP $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\cdots$ $\cdots$ $\cdots$ $\cdots$ Modbus/TCP $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\cdots$ $\cdots$ $\cdots$ $\cdots$ IGMP/GMRP $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\cdots$ $\cdots$ $\cdots$ $\cdots$ Port Trunking $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\cdots$ $\cdots$ $\cdots$ $\cdots$ Port Trunking $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\cdots$ $\cdots$ $\cdots$ $\cdots$ $\cdots$ $\cdots$ Port Lock $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\cdots$ </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
DHCP Option 66/67/82III	Network Management and Co	ntrol						
IEEE 158 PTPNNNNLLDPNNNNModbus/TCPNNNNIGMP/GMRPNNNNIGMP/GMRPNNNNPort TunkingNNNNIEEE 802.1XNNNNPort LockNNNNNSIMP/RMONNNNNNN <t< td=""><td>IPv6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	IPv6							
LLDPVVVV···············Modbus/TCPVVVV·····················IGMP/GMRPVVVVV···		$\checkmark$	$\checkmark$					
Modbus/TCPNNNNNIGMP/GMRPNNN <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
IGMP/GMRPNNNNNIEEE 802.1XNNN			V		V			
Port TrunkingIEEE 802.1X<								
IEEE 802.1XVVVV············Port LockVVVV··················SNMP/RMONVVVVV··················SNMP/RMONVVVV·····················QOSVVVV·····················Relay WarningVVVV·····················Regulatory ApprovalsVVV························CE/FCCVVVVVVV·/·············ULS08PendingPendingPendingPendingPending···············NEMA TS2PendingPendingPendingPendingPendingPending·········Railway Applications: ENS0151PendingPendingPendingPendingPendingPendingPendingPendingPendingPendingENS0121-4PendingPendingPendingPendingPendingPendingPendingPendingPendingPendingPendingENS0121-4PendingPendingPendingPendingPendingPendingPending			N					
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SNMP/RMONVVVVV <th< td=""><td></td><td></td><td>2</td><td></td><td>2</td><td></td><td></td><td></td></th<>			2		2			
VLANVVVVQoSVVVVVRelay WarningVVVVVRegulatory ApprovalsCE/FCCVVVVVVVUL508PendingPendingPendingPendingPendingPendingVVTaffic Control Systems: NEMA TS2 elPendingPendingPendingPendingPendingPendingPendingPendingPendingPendingRailway Applications: ENS01521-3-2 ENS0121-4PendingPendingPendingPendingPendingPendingPendingPendingPendingPendingPending PendingPending PendingPending PendingPending PendingPending PendingPending PendingPending PendingPending PendingPending PendingPending PendingPending PendingPending PendingPending PendingPending PendingPending PendingPending PendingPending PendingPending PendingPending PendingPe			V					
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Regulatory Approvals         CE/FCC       N       Pending       Pend	QoS		V					
CEFCCNNNNNNNUL508PendingPendingPendingPendingPendingPendingNTraffic Control Systems: NEMA TS2 e1PendingPendingPendingPendingPendingPendingPendingRailway Applications: ENS0155PendingPendingPendingPendingPendingPendingPendingPendingRailway Applications: ENS0121-3-2PendingPendingPendingPendingPendingPendingPendingPendingENS0121-4PendingPendingPendingPendingPendingPendingPendingPendingPending	Relay Warning	$\checkmark$		V				
UL508PendingPendingPendingPendingPendingPendingPendingPendingVTraffic Control Systems: NEMA TS2 e1Pending<	Regulatory Approvals							
Traffic Control Systems: NEMA TS2 e1     Pending Pending     Pending Pending     Pending Pending     Pending Pending     Pending     Pending        Railway Applications: ENS0155     Pending     Pending     Pending     Pending     Pending     Pending        Railway Applications: ENS0121-3-2     Pending     Pending     Pending     Pending     Pending     Pending     Pending       ENS0121-4     Pending     Pending     Pending     Pending     Pending     Pending     Pending	CE/FCC	$\checkmark$			$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
NEMA TS2 e1         Pending Pending         Pending Pending         Pending Pending         Pending Pending         Pending Pending         Pending         Pend	UL508							
EN50155         Pending         Pending <t< td=""><td>NEMA TS2</td><td>Pending Pending</td><td></td><td>Pending Pending</td><td></td><td>Pending Pending</td><td>Pending Pending</td><td></td></t<>	NEMA TS2	Pending Pending		Pending Pending		Pending Pending	Pending Pending	
	EN50155	Pending	Pending	Pending	Pending	Pending	Pending	Pending
DNV/GL Pending	DNV/GL							Pending

## **IEC 61850-3 Rackmount Ethernet** Switches

				1 200 000 100 mm
	PT-7828	PT-7728	PT-7710	PT-7324
Supported Modules				
Gigabit Ethernet Modules	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Fast Ethernet Modules	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
SFP Gigabit Ethernet Modules	$\checkmark$	$\checkmark$		$\checkmark$
SFP Fast Ethernet Modules	$\checkmark$	$\checkmark$	$\checkmark$	
Number of Ports				
Max. Number of Ports	28	28	10	24
Gigabit Ethernet, 10/100/1000 Mbps	Up to 4	Up to 4	Up to 2	Up to 2
Fast Ethernet, 10/100 Mbps	Up to 24	Up to 24	Up to 10	Up to 24
Power Supply				
24 VDC, isolated	$\checkmark$	$\checkmark$		
48 VDC, isolated	$\checkmark$	$\checkmark$		
12/24/48 VDC 88-300 VDC or 85-264	 		V	√
VAC, isolated	$\checkmark$	$\checkmark$		$\checkmark$
Installation Options				
Rack Mounting	$\checkmark$	$\checkmark$	1	$\checkmark$
Panel Mounting			$\checkmark$	
Operating Temperature				
-40 to 85°C	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Redundancy and Backup Opt	ions			
Turbo Ring (Recovery Time < 20 ms)	1	$\checkmark$	$\checkmark$	
STP/RSTP	$\checkmark$	$\checkmark$	$\checkmark$	
Automatic Backup Configurator (ABC-01)	$\checkmark$	$\checkmark$		
Network Management and Co				
Layer 3 Switching	$\checkmark$			
IPv6		$\checkmark$		
DHCP Option 66/67/82	1	1	N	
IEEE 1588 PTP LLDP	√ √	N		
Modbus/TCP	N V	N	N	
IGMP/GMRP	1	2	N	
Port Trunking	1	V	1	
IEEE 802.1X	√	V	√	
Port Lock			√.	
SNMP/RMON	$\checkmark$	$\checkmark$	$\checkmark$	
VLAN	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
QoS	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Relay Warning	$\checkmark$	$\checkmark$	1	$\checkmark$
Regulatory Approvals				
CE/FCC	√ 		√ 	1
UL/cUL 60950-1 IEC 61850-3 (Power	Pending √	Pending √	Pending √	Pending √
Substation) IEEE 1613 (Power	<u>الم</u>	1	√ √	√ √
Substation) NEMA TS2 (Traffic Control	√ √	1	√	V
System) EN50155/EN50121-4	√ √	√ √	√ √	√ √
(Railway Applications) DNV/GL	Pending	Pending	Pending	Pending
Divi/UL	r chulliy	r chulliy	i ciidiliy	r endlig

#### **Stand-alone Type I/Os**

			And a second sec	The second second		
Model	ioLogik W5340	ioLogik E2210	ioLogik E2212	ioLogik E2214	ioLogik E2240	ioLogik E2242
Category	Cellular GPRS I/O	Active Ethernet I/O	Active Ethernet I/O	Active Ethernet I/O	Active Ethernet I/O	Active Ethernet I/O
Comm. Interface	GPRS, 10/100M Ethernet	10/100M Ethernet	10/100M Ethernet	10/100M Ethernet	10/100M Ethernet	10/100M Ethernet
l/O Combination	4 Als, 8 DIOs, 2 Relays	12 DIs, 8 DOs	8 DIs, 8 DOs, 4 DIOs	6 DIs, 6 Relays	8 Als, 2 AOs	4 Als, 12 DIOs
Control Protocol	Modbus/TCP, SNMP, OPC	Modbus/TCP, SNMP, OPC, Http-CGI	Modbus/TCP, SNMP, OPC, Http-CGI	Modbus/TCP, SNMP, OPC, Http-CGI	Modbus/TCP, SNMP, OPC, Http-CGI	Modbus/TCP, SNMP, OPC, Http-CGI
Local Intelligence	Click&Go	Click&Go	Click&Go	Click&Go	Click&Go	Click&Go
Alarm Function	SMS, E-mail, SNMP Traps, TCP/UDP Messaging	E-mail, SNMP Traps, TCP/UDP Messaging	E-mail, SNMP Traps, TCP/UDP Messaging	E-mail, SNMP Traps, TCP/UDP Messaging	E-mail, SNMP Traps, TCP/UDP Messaging	E-mail, SNMP Traps, TCP/UDP Messaging











Model	ioLogik E2260	ioLogik E2262	ioLogik R2110	ioLogik R2140	ioMirror E3210
Category	Active Ethernet I/O	Active Ethernet I/O	RS-485 I/0	RS-485 I/O	Peer-to-Peer I/O
Comm. Interface	10/100M Ethernet	10/100M Ethernet	RS-485	RS-485	10/100M Ethernet
l/O Combination	4 DOs, 6 RTDs	4 DOs, 8 TCs	12 DIs, 8 DOs	8 Als, 2 AOs	8 DIs, 8 DOs
Control. Protocol	Modbus/TCP, SNMP, OPC, Http-CGI	Modbus/TCP, SNMP, OPC, Http-CGI	Modbus/RTU	Modbus/RTU	
Local Intelligence	Click&Go	Click&Go			
Alarm Function	E-mail, SNMP Traps, TCP/UDP Messaging	E-mail, SNMP Traps, TCP/UDP Messaging			Alarm Channel with LED for Conn. Status

#### Modular Type I/Os







Model	ioLogik E4200	NA-4010	NA-4020	NA-4021
Category	Modular Active Ethernet I/O	Modular Ethernet I/O	Modular Serial I/O	Modular Serial I/O
Comm. Interface	Dual 10/100M Ethernet	10/100M Ethernet	RS-485	RS-232
Max. Expansion Capacity	16 slices	31 slices	31 slices	31 slices
Control Protocol	Modbus/TCP, SNMP, OPC	Modbus/TCP	Modbus/RTU	Modbus/RTU
Local Intelligence	Click&Go			
Alarm Function	SMS, E-mail, SNMP Traps, TCP/UDP Messaging			
SMS/GPRS Connectivity	Yes, with an ext. modem			

MO

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## **Modular Remote I/O Selection Guide**

		DC-D	igital Inputs			AC-Digit	al Inputs
	Model	M-1800	M-1801	M-1600	M-1601	M-1450	M-145
	Channels	8	8	16	16	4	4
Specs	Sink/Source	Sink	Source	Sink	Source		
opeus	Connector	RTB	RTB	20-pin	20-pin	RTB	RTI
	Voltage	24 VDC	24 VDC	24 VDC	24 VDC	110 VAC	220 V
	Isolation			Optical i	solation		
			Digital Out	iputs			1
	Model	M-2800	M-2801				
			IVI-200 I	M-2600	M-2601	M-2450	
	Channels	8	8	M-2600 16	M-2601 16	M-2450 4	
	Channels Sink/Source	8 Sink					
Specs			8	16	16	4	
Specs	Sink/Source	Sink	8 Source	16 Sink	16 Source	4 Relay	
Specs	Sink/Source Connector	Sink RTB	8 Source RTB	16 Sink 20-pin	16 Source 20-pin	4 Relay RTB	

Optical isolation

Analog Inputs								
	Model	M-3802	M-3810	M-6200	M-6201			
	Channels	8	8	2	2			
	Current	4 to 20 mA						
	Voltage		0 to 10V					
Specs	Connector	RTB	RTB	RTB	RTB			
	Resolution	12-bit	12-bit					
	Isolation		Optical	isolation				
	Sensor Input			RTD(ohm)	Thermo-couple (mV)			

_		Ana	log Outputs		
		Model	M-4402	M-4410	
-		Channels	4	4	
		Current	4 to 20 mA		
	Specs	Voltage		0 to 10 V	
		Connector	RTB	RTB	
		Resolution	12-bit	12-bit	
		Isolation	Optical i	solation	

	Power Modules									
	Model	M-7001	M-7002	M-7804	M-7805					
	Channels	0	0	8	8					
Specs	Voltage	24 VDC	DC: 5, 24, 48 VDC AC: 110/220 VAC	0 VDC	24 VDC					
	Purpose	System Power	Field Power	Field Power	Field Power					



#### **Video Networking Products**

		0000			Concerne and	1 20		0
	VPort 354	VPort 254	VPort 351	VPort 3310	VPort 2141	VPort 251	VPort D351	VPort 25
Type of Product	Encoder	Encoder	Encoder	Encoder	Encoder	Encoder	Decoder	IP Camera
Form Factor								
Protection Rating	IP30	IP30	IP30	IP30			IP30	IP66
DIN-Rail Mounting	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	w/ optional Kit	w/ optional Kit	$\checkmark$	
Panel Mounting	w/ optional Kit	w/ optional Kit	w/ optional Kit	w/ optional Kit	$\checkmark$	$\checkmark$	w/ optional Kit	
Surface/Ceiling Mounting								$\checkmark$
Audio/Video Channels								
Video Inputs	4	4	1	1	4	1	0	0
Video Outputs	0	0	1	1	0	0	1	1
Audio Inputs	1	1	1	1	0	1	1	1
Audio Outputs	1	1	1	0	0	1	1	1
Compression Algorithm		1			1			1
MJPEG		V			$\checkmark$	$\checkmark$	V	1
MPEG4	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
Video Performance	_							
QCIF (NTSC: 176 x 120)	30 FPS (max.)			30 FPS (max.)	30 FPS (max.)			
QVGA (NTSC: 320 x 240)		30 FPS (max.)	30 FPS (max.)			30 FPS (max.)		30 FPS (max.)
CIF (NTSC: 352 x 240)	30 FPS (max.)	30 FPS (max.)	30 FPS (max.)	30 FPS (max.)	30 FPS (max.)	30 FPS (max.)		30 FPS (max.)
VGA (NTSC: 640 x 480)		7 FPS (max.)	30 FPS (max.)	10 FPS (max.)		30 FPS (max.)		30 FPS (max.)
2CIF (NTSC: 704 x 240)	30 FPS (max.)							
4CIF (NTSC: 704 x 480)	30 FPS (max.)	7 FPS (max.)	30 FPS (max.)	10 FPS (max.)	30 FPS (max.)	30 FPS (max.)		30 FPS (max.)
Full D1 (NTSC: 720 x 480) QCIF (PAL: 176 x 144)		7 FPS (max.)	30 FPS (max.)			30 FPS (max.)		30 FPS (max.)
QVGA (PAL: 320 x 288)	25 FPS (max.)			25 FPS (max.)	25 FPS (max.)			
CIF (PAL: 352 x 288)		25 FPS (max.)	25 FPS (max.)			25 FPS (max.)		25 FPS (max.)
VGA (PAL: 640 x 576)	25 FPS (max.)	25 FPS (max.) 7 FPS (max.)	25 FPS (max.)	25 FPS (max.)	25 FPS (max.)	25 FPS (max.)		25 FPS (max.)
2CIF (PAL: 704 x 288)	25 FPS (max.)	7 FP3 (IIIdx.)	25 FPS (max.)	8 FPS (max.)		25 FPS (max.)		25 FPS (max.)
4CIF (PAL: 704 x 576)	25 FPS (max.)	7 FPS (max.)	25 FPS (max.)	8 FPS (max.)	8 FPS (max.)	25 FPS (max.)		25 FPS (max.)
· ,			. ,	. ,		. ,		. ,
FUULT (PAL: /2018 5/6)		( FPS (may )	25 FPS (may )			25 FPS (max )		
Full D1 (PAL: 720 x 576) Quad View		7 FPS (max.)	25 FPS (max.)		 15 FPS (max )	25 FPS (max.)		25 FPS (max.)
Quad View		7 FPS (max.)	25 FPS (max.)		 15 FPS (max.)	25 FPS (max.)		25 FPS (max.)
Quad View Network Connections					15 FPS (max.)			
Quad View Network Connections 10/100BaseT(X) Ports	2	1	1		15 FPS (max.) 1			1
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports					15 FPS (max.)			
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports	2 2	 1 1	 1 1	 1 	15 FPS (max.) 1 	 1 	 1 	 1 
Quad View         Network Connections         10/100BaseT(X) Ports         100BaseFX Ports         Number of COM Ports         PTZ Ports	2 2 1	 1 1 1	 1 1 1	 1  1	15 FPS (max.) 1  2	 1  1	 1  1	 1 
Quad View         Network Connections         10/100BaseT(X) Ports         100BaseFX Ports         Number of COM Ports         PTZ Ports         RS-232 Console Ports	2 2	 1 1	 1 1	 1 	15 FPS (max.) 1 	 1 	 1 	 1 
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control	2 2 1 1	 1 1 1	 1 1 1 1	 1  1 	15 FPS (max.) 1  2 	 1  1 1	1  1 1 1	 1  
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control Web Browser	 2 2 1 1	 1 1 1 1 1	 1 1 1 1 1	1  1 	15 FPS (max.) 1  2  √	1  1 1	1  1 1 1	
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control Web Browser SNMP Protocols	 2 2 1 1 1 √ √ v1/v2c/v3	 1 1 1 1 1 √ v1/v2c/v3	 1 1 1 1 1 √ v1/v2c/v3	1  1  √ v1/v2c/v3	15 FPS (max.) 1  2  √ 	 1  1 1 1 √ v1/v2c/v3	 1  1 1 1 √ v1/v2c/v3	 1   √ v1/v2c/v3
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control Web Browser	 2 2 1 1	 1 1 1 1 1	 1 1 1 1 1	1  1 	15 FPS (max.) 1  2  √	1  1 1	1  1 1 1	
Quad View         Network Connections         10/100BaseT(X) Ports         100BaseFX Ports         Number of COM Ports         PTZ Ports         RS-232 Console Ports         Network Management and Control         Web Browser         SNMP Protocools         RTSP (Real Time Streaming	 2 2 1 1 1 √ √ v1/v2c/v3	 1 1 1 1 1 √ v1/v2c/v3	 1 1 1 1 1 √ v1/v2c/v3	1  1  √ v1/v2c/v3	15 FPS (max.) 1  2  √ 	 1  1 1 1 √ v1/v2c/v3	 1  1 1 1 √ v1/v2c/v3	 1   √ v1/v2c/v3
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control Web Browser SNMP Protocols RTSP (Real Time Streaming Protocol) Multicast (IGMP) QoS	 2 2 1 1 1 √ v1/v2c/v3 √ v3 √	 1 1 1 1 √ v1/v2c/v3 √ v3 √	 1 1 1 1 √ v1/v2c/v3 √ v3 √	1  1  1  √ v1/v2c/v3 √ v3 	15 FPS (max.) 1  2      	 1 1 1 1 √ v1/v2c/v3 √ v3 √	1  1 1 1 1 √ v1/v2c/v3  	 1   √ v1/v2c/v3 √ v3 √
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control Web Browser SNMP Protocols RTSP (Real Time Streaming Protocol) Multicast (IGMP) QoS UPnP	 2 2 1 1 √ v1/v2c/v3 √ v3 √ √ √	 1 1 1 1 √ v1/v2c/v3 √ v3 √ √	 1 1 1 1 √ √ √/v2c/v3 √ v3	 1  1  √ v1/v2c/v3 √ v3	15 FPS (max.) 1  2  √    	 1 1 1 √ v1/v2c/v3 √ v3 √ √	 1  1 1 1 √ v1/v2c/v3  	 1   √ v1/v2c/v3 √ v3
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control Web Browser SNMP Protocols RTSP (Real Time Streaming Protocol) Multicast (IGMP) QoS UPnP DDNS	 2 2 1 1 1 √ v1/v2c/v3 √ v3 √	 1 1 1 1 √ v1/v2c/v3 √ v3 √	 1 1 1 1 √ v1/v2c/v3 √ v3 √	 1  1 v1/v2c/v3 √ v3  √ √	15 FPS (max.) 1  2      √ √ √	 1 1 1 1 √ v1/v2c/v3 √ v3 √	1  1 1 1 1 √ v1/v2c/v3  	 1   √ v1/v2c/v3 √ v3 √
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control Web Browser SNMP Protocols RTSP (Real Time Streaming Protocol) Multicast (IGMP) QoS UPnP DDNS PPPoE	 2 2 1 1 1 √ v1/v2c/v3 √ v3 √ v v v v v v v v v v v v v	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ √ v3 √ v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v v3 v v1/v2c/v3 v1/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c	 1  1  v1/v2c/v3 √ v3  √ √ v3  √ √ v3  √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 v3 v3 v3 v3 v3 v3 v3 v3 v3	15 FPS (max.) 1  2  √   √ √ √ √ √ √ √ √ √ √ √ √	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ v3 √ v3 v3 v3 v4 v4 v3 v4 v4 v5 v5 v5 v5 v5 v5 v5 v5 v5 v5	 1  1 1 1 1 √ v1/v2c/v3  √ √ √ v1/v2c/v3  √ √ √	 1     v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v1 v2 v3 v1 v3 v3 v1 v3 v3 v3 v1 v3 v3 v3 v3 v3 v3 v3 v3 v3 v3
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control Web Browser SNMP Protocols RTSP (Real Time Streaming Protocol) Multicast (IGMP) QoS UPnP DDNS	 2 2 1 1 √ v1/v2c/v3 √ v3 √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v1/v2c/v3 √ v3 √ √ v3 √ v3 √ v3 √ v3 v3 v4 v4 v3 v4 v3 v3 v4 v4 v4 v4 v4 v4 v4 v4 v4 v4	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v1 v1 v1 v1 v1 v2 v3 v1 v2 v3 v1 v2 v3 v1 v2 v3 v1 v2 v3 v3 v1 v2 v3 v3 v3 v3 v3 v3 v3 v3 v3 v3	1 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ √ √ √ √	 1  1 v1/v2c/v3 √ v3  √ √	15 FPS (max.) 1  2      √ √ √	 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ √ v3 √ √ v3 √ √ v3 √ √	1 1 1 1 1 √ v1/v2c/v3  √ √	 1    √ v1/v2c/v3 √ v3 √ v3 √ √ v3 √ √ v3 √ √ v1/v2c/v3 √ v3 √ √ v3 √ v1/v2c/v3 √ v3 √ v3 v3 v3 v3 v3 v3 v3 v3 v3 v3
Quad View         Network Connections         10/100BaseT(X) Ports         100BaseFX Ports         Number of COM Ports         PTZ Ports         RS-232 Console Ports         Network Management and Control         Web Browser         SNMP Protocools         RTSP (Real Time Streaming Protocol)         Muticast (IGMP)         QoS         UPnP         DDNS         PPPOE	 2 2 1 1 1 √ v1/v2c/v3 √ v3 √ v v v v v v v v v v v v v	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ √ v3 √ v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v v3 v v1/v2c/v3 v1/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c	 1  1  v1/v2c/v3 √ v3  √ √ v3  √ √ v3  √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 v3 v3 v3 v3 v3 v3 v3 v3 v3	15 FPS (max.) 1  2      √ √ √ √ √ √ √ √ √ √ √ √ √	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ v3 √ v3 v3 v4 v3 v4 v4 v4 v5 v5 v5 v5 v5 v5 v5 v5 v5 v5	 1  1 1 1 1 √ v1/v2c/v3  √ √ √ v1/v2c/v3  √ √ √	 1     v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v1 v2 v3 v1 v3 v3 v1 v3 v3 v3 v1 v3 v3 v3 v3 v3 v3 v3 v3 v3 v3
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control Web Browser SNMP Protocols RTSP (Real Time Streaming Protocol) Multicast (IGMP) QoS UPnP DDNS PPPoE IP Filtering	 2 2 1 1 1 √ v1/v2c/v3 √ v3 √ v v v v v v v v v v v v v	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v v3 v v1/v2c/v3 v1/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v v3 v v1/v2c/v3 v1/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c	 1  1  v1/v2c/v3 √ v3  √ √ v3  √ √ v3  √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 v3 v3 v3 v3 v3 v3 v3 v3 v3	15 FPS (max.) 1  2      √ √ √ √ √ √ √ √ √ √ √ √ √	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ v3 √ v3 v3 v4 v3 v4 v4 v4 v5 v5 v5 v5 v5 v5 v5 v5 v5 v5	 1  1 1 1 1 √ v1/v2c/v3  √ √ √ v1/v2c/v3  √ √ √	 1     v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v1 v2 v3 v1 v3 v3 v1 v3 v3 v3 v1 v3 v3 v3 v3 v3 v3 v3 v3 v3 v3
Quad View         Network Connections         10/100BaseT(X) Ports         100BaseFX Ports         Number of COM Ports         PTZ Ports         RS-232 Console Ports         Network Management and Control         Web Browser         SNMP Protocols         RTSP (Real Time Streaming Protocol)         Multicast (IGMP)         QoS         UPnP         DDNS         PPPoE         IP Filtering         Power Requirements	 2 2 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v1/v2c/v3 √ v3 √ v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v1/v2c/v3 √ v3 √ v1/v2c/v3 √ v3 √ v1/v2c/v3 √ v3 √ v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v3 v1/v2c/v3 v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3 v3 v1/v2c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3c/v3	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v1/v2c/v3 v3 v3 v1 v3 v1 v3 v1 v3 v1 v3 v1 v3 v1 v3 v1 v3 v1 v3 v1 v3 v1 v3 v1 v3 v1 v3 v1 v3 v1 v1 v3 v1 v3 v1 v3 v1 v1 v3 v1 v1 v3 v1 v1 v1 v1 v1 v1 v1 v1 v1 v1	 1  1  v1/v2c/v3 √ v3  √ v3  √ v3  √ v3  √ v3  v1 v3  v3 v3 v3 v3 v3 v4 v4 v4 v4 v4 v4 v4 v4 v4 v4	15 FPS (max.) 1 2  √  √ √ √ √ √	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v1 v1/v2c/v3 v3 v3 v1 v1 v1 v1 v1 v1 v1 v1 v1 v3 v1 v1 v1 v1 v1 v1 v1 v1 v1 v1	 1  1 1 1 1 √ v1/v2c/v3   √ √ √ v1/v2c/v3   √ √	 1    √ v1/v2c/v3 √ v3 √ v3 √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ v3 √ v3 v3 v4 v3 v4 v4 v4 v4 v4 v4 v4 v4 v4 v4
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control Web Browser SNMP Protocols RTSP (Real Time Streaming Protocol) Multicast (IGMP) QoS UPnP DDNS PPPoE IP Filtering Power Requirements Power Redundancy Power Inputs Power Qutputs	 2 2 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 v3 v4 v3 v3 v4 v3 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v4 v3 v4 v4 v4 v4 v4 v4 v4 v4 v4 v4	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ √ v3 √ √ v1/v2c/v3	1 1 1 1 1 · · · · · · · · · · · · ·	1  1  1  v1/v2c/v3 √ v3  √ v3  √ v3  √ v3  √ v3  √ v3 √ v3 v3  v4 v3 v4 v4 v4 v4 v4 v4 v4 v4 v4 v4	15 FPS (max.) 1  2  √ √ √ √ √ √ √ √ √ √ √ √ √	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v1 v1 v1 v1 v1 v1 v1 v1 v1 v1	 1  1 1 √ v1/v2c/v3   √ √  √ √  √ √  √ √   √ 0  	 1    √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v1/v2c/v3 v3 √ v1 v2c/v3 v3 √ v3 v3 v3 v3 v3 v3 v3 v3 v3 v3
Quad View         Network Connections         10/100BaseT(X) Ports         100BaseFX Ports         Number of COM Ports         PTZ Ports         RS-232 Console Ports         Network Management and Control         Web Browser         SNMP Protocols         RTSP (Real Time Streaming Protocol)         Multicast (IGMP)         QoS         UPnP         DDNS         PPPoE         IP Filtering         Power Requirements         Power Redundancy         Power Inputs	 2 2 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 v3 v4 v3 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v4 v3 v4 v4 v3 v4 v4 v4 v4 v4 v4 v4 v4 v4 v4	1 1 1 1 1 · · · · · · · · · · · · ·	1 1 1 1 1 V V1/v2c/v3 √ V3 √ V3 √ V3 √ √ V V3 √ √ V V V V	 1  1 √ v1/v2c/v3 √ v3  √ √ v3  √ √ √ v3  √ √ √ v3  √ √ √ v3  √ √ √ × 2	15 FPS (max.) 1 2       -	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 v3 v4 v3 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v4 v4 v4 v4 v4 v4 v4 v4 v4	1 1 1 · · · · · · · · · · · · ·	 1   v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v4 v4 v4 v4 v4 v4 v4 v4 v4
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control Web Browser SNMP Protocols RTSP (Real Time Streaming Protocol) Multicast (IGMP) QoS UPnP DDNS PPPoE IP Filtering Power Requirements Power Redundancy Power Inputs Power Qutputs	 2 2 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 v3 v4 v3 v3 v4 v3 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v4 v3 v4 v4 v4 v4 v4 v4 v4 v4 v4 v4	1 1 1 1 1 V V1/v2c/v3 √ V3 √ V3 √ V3 √ V3 √ V3 V V3 V V V3 V V V V	1 1 1 1 1 · · · · · · · · · · · · ·	 1  1 √ v1/v2c/v3 √ v3  √ √ v3  √ √ v3  √ √ v3  √ √ v3  √ v3  √ v3  √ v3  v v3  v v3 v3  v v3 v v v v v v v v v v v v v	15 FPS (max.) 1  2  √ √ √ √ √ √ √ √ √ √ √ √ √	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v1 v1 v1 v1 v1 v1 v1 v1 v1 v1	 1  1 1 √ v1/v2c/v3   √ √  √ √  √ √  √ √   √ 0  	 1    √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v1/v2c/v3 v3 √ v1 v2c/v3 v3 √ v3 v3 v3 v3 v3 v3 v3 v3 v3 v3
Quad View  Network Connections  10/100BaseT(X) Ports  100BaseFX Ports  Number of COM Ports  PTZ Ports  RS-232 Console Ports  Network Management and Control  Web Browser  SNMP Protocols  RTSP (Real Time Streaming Protocol)  Multicast (IGMP)  QoS UPnP DDNS PPPoE IP Filtering Power Requirements Power Requirements Power Inputs Power Inputs Power-Ethernet (PoE)  Alarms	 2 2 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 v3 v4 v3 v3 v4 v3 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v4 v3 v4 v4 v4 v4 v4 v4 v4 v4 v4 v4	1 1 1 1 1 V V1/v2c/v3 √ V3 √ V3 √ V3 √ V3 √ V3 V V3 V V V3 V V V V	1 1 1 1 1 · · · · · · · · · · · · ·	 1  1 √ v1/v2c/v3 √ v3  √ √ v3  √ √ v3  √ √ v3  √ √ v3  √ v3  √ v3  √ v3  v v3  v v3 v3  v v3 v v v v v v v v v v v v v	15 FPS (max.) 1  2  √ √ √ √ √ √ √ √ √ √ √ √ √	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v1 v1 v1 v1 v1 v1 v1 v1 v1 v1	 1  1 1 √ v1/v2c/v3   √ √  √ √  √ √  √ √   √ 0  	 1    √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v1/v2c/v3 v3 √ v1 v2c/v3 v3 √ v3 v3 v1 v2c/v3 v3 v3 v3 v3 v3 v3 v3 v3 v3
Quad View         Network Connections         10/100BaseT(X) Ports         100BaseFX Ports         Number of COM Ports         PTZ Ports         RS-232 Console Ports         Network Management and Control         Web Browser         SNMP Protocols         RTSP (Real Time Streaming Protocol)         Multicast (IGMP)         QoS         UPnP         DDNS         PPPoE         IP Filtering         Power Redundancy         Power outputs         Power over-Ethernet (PoE)         Alarms         VMD (Video Motion Detection)	$\begin{array}{c} \\ 2 \\ 2 \\ \end{array}$ $\begin{array}{c} 1 \\ 1 \\ 1 \\ \\  $	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 v3 v4 v3 v3 v3 v3 v4 v3 v3 v4 v3 v3 v4 v3 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v3 v4 v4 v4 v4 v4 v4 v4 v4 v4 v4	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	1            1            √         v1/v2c/v3         √         v3            √         √         v3            √         √         v3            √         √         √         √         √         √         √         √         √         0	15 FPS (max.) 1  2  √ √  √ √ √ √ √ √ √ √ 1 1 1  1 1 1 	 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ √ v3 √ v3 √ 1 1  1 1 1 	1         1 <t< td=""><td> 1      </td></t<>	 1      
Quad View         Network Connections         10/100BaseT(X) Ports         100BaseFX Ports         Number of COM Ports         PTZ Ports         RS-232 Console Ports         Network Management and Control         Web Browser         SNMP Protocols         RTSP (Real Time Streaming Protocol)         Multicast (IGMP)         QoS         UPnP         DDNS         PPPoE         IP Filtering         Power Requirements         Power Outputs         Power-Outputs         Power-Outputs         Power-Outputs         Power Outputs         Power Outputs         POWE Outputs         Power Outputs	$\begin{array}{c} \\ 2 \\ 2 \\ \end{array}$ 1 1 1 $ \\  \\$	1 1 1 1 1 · · · · · · · · · · · · ·	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	 1  1 · · · · · · · · · · · · · ·	15 FPS (max.) 1  2     √ √ √ √ √ √ √ √ √ √ √ √ √	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v1/v2c/v3 √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ √ v3 √ v3 √ √ v3 v3 v3 v3 v3 v3 v3 v3 v3 v3	1 1 1 1 1 1 √ v1/v2c/v3 √ √ √ √ 2 0	 1      
Quad View Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports VIDE of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control Web Browser SNMP Protocols RTSP (Real Time Streaming Protocol) Multicast (IGMP) QoS UPnP DDNS PPPoE IP Filtering Power Requirements Power Requirements Power Requirements Power Outputs Power Outputs Power Outputs Power Outputs IP filtering PME VMD (Video Motion Detection) Digital Inputs Relay (Digital) Outputs Alarm Video Recording	2         2         1         1         √         ∨1/v2c/v3         √         ↓         2         0            √         4         2         √         4         2         √	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	1            1            √         v1/v2c/v3         √         v3            √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         2         0            √         2         2         2         2         2	15 FPS (max.) 1  2      √ √ √ √ √ √ √ √ √ √ √ √ √	 1 1 1 1 1 1 1 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ v1 v2c/v3 v3 √ v3 √ v3 √ v3 √ v3 v3 v3 v3 v3 v3 v3 v3 v3 v3	 1  1 1 1 1 √ v1/v2c/v3   √ √ √ √ v1/v2c/v3    2	 1  
Quad View         Network Connections         10/100BaseT(X) Ports         100BaseFX Ports         Number of COM Ports         PTZ Ports         RS-232 Console Ports         Network Management and Control         Web Browser         SNMP Protocols         RTSP (Real Time Streaming Protocol)         Multicast (IGMP)         QoS         UPnP         DDNS         PPPoE         IP Filtering         Power Redundancy         Power outputs         Power over-Ethernet (PoE)         Alarms         VMD (Video Motion Detection)	$\begin{array}{c} \\ 2 \\ 2 \\ \end{array}$ 1 1 1 $ \\  \\$	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{c} \\ 1 \\ \\ 1 \\ \\ 1 \\ \\ 1 \\ \\ \\ 1 \\ \\ 1 \\ \sqrt{1/\sqrt{2c/\sqrt{3}}} \\ \sqrt{1/\sqrt{2c/\sqrt{3c}}} \\ \sqrt{1/\sqrt{2c}} \\ \sqrt$	15 FPS (max.) 1 2       -	$\begin{array}{c} \\ 1 \\ 1 \\ \\ 1 \\ 1 \\ 1 \\  \\  \\  \\  \\  \\  \\  \\  \\  \\  \\  \\  \\  \\ 1 \\ 1 \\ 1 \\ \end{array}$	1            1         1         1         1         ·	 1   v1/v2c/v3 √ v3 √ v3 √ v3 √ v3 √ √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 √ v3 v3 v3 v3 v3 v3 v3 v3 v3 v3
Quad View         Network Connections         10/100BaseT(X) Ports         100BaseFX Ports         Number of COM Ports         PTZ Ports         RS-232 Console Ports         Network Management and Control         Web Browser         SNMP Protocols         RTSP (Real Time Streaming Protocol)         Multicast (IGMP)         QoS         UPnP         DDNS         PPPoE         IP Filtering         Power Requirements         Power Redundancy         Power Inputs         Power Outputs         Power Outputs         Power Outputs         Power Ledernon Detection)         Digital Inputs         Relay (Digital) Outputs         Alarm Video Recording	2         2         1         1         √         ∨1/v2c/v3         √         ↓         √         ↓         √         ↓         √         ↓         √         ↓         √         √         ↓         ↓	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	1            1            √         v1/v2c/v3         √         v3            √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         2         0            √         2         2         2         2         2	15 FPS (max.) 1  2     √ √ √ √ √ √ √ √ √ √ √ √ √	$\begin{array}{c} \\ 1 \\ 1 \\ \\ 1 \\ 1 \\ 1 \\ $	1              1           1           ··      ··      ·· <td> 1  </td>	 1  
Quad View         Network Connections         10/100BaseT(X) Ports         100BaseFX Ports         Number of COM Ports         PTZ Ports         RS-232 Console Ports         Network Management and Control         Web Browser         SNMP Protocols         RTSP (Real Time Streaming Protocol)         Multicast (IGMP)         QoS         UPnP         DDNS         PPPoE         IP Filtering         Power Requirements         Power Redundancy         Power Inputs         Power Outputs         Power Outputs         Power Outputs         Power Jourd Addition Detection)         Digital Inputs         Relay (Digital) Outputs         Alarm Video Recording         Alarm Snapshot Image	2         2         1         1         √         ∨1/v2c/v3         √         ↓         √         ↓         √         ↓         √         ↓         √         ↓         √         √         ↓         ↓	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	1            1            √         v1/v2c/v3         √         v3            √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         2         0            √         2         2         2         2         2	15 FPS (max.) 1  2     √ √ √ √ √ √ √ √ √ √ √ √ √	$\begin{array}{c} \\ 1 \\ 1 \\ \\ 1 \\ 1 \\ 1 \\ $	1              1           1           ··      ··      ·· <td> 1      </td>	 1      
Quad View         Network Connections         10/100BaseT(X) Ports         100BaseFX Ports         Number of COM Ports         PTZ Ports         RS-232 Console Ports         Network Management and Control         Web Browser         SNMP Protocols         RTSP (Real Time Streaming Protocol)         Multicast (IGMP)         QoS         UPnP         DDNS         PPPoE         IP Filtering         Power Requirements         Power Redundancy         Power Outputs         Power Outputs         Power Outputs         Power Outputs         Alarms         VMD (Video Motion Detection)         Digital Inputs         Relay (Digital) Outputs         Alarm Nideo Recording         Alarm Snapshot Image         Supported Operating Temperature Ra         0 to 60°C         -40 to 50°C	2         2         1         1         √         ∨1/v2c/v3         √ <tr< td=""><td><math display="block">\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1</math></td><td> 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>         1            1            v1/v2c/v3         √         v3            √        </td><td>15 FPS (max.) 1  2   √ √ √ √ √ √ √ √ √ √ √ √ √</td><td><math display="block">\begin{array}{c} \\ 1 \\ \\ 1 \\ 1 \\ 1 \\ \sqrt</math></td><td>1         1            1         1         1         ·</td><td> 1   </td></tr<>	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	 1 1 1 1 1 1 1 1 1 1 1 1 1	1            1            v1/v2c/v3         √         v3            √	15 FPS (max.) 1  2   √ √ √ √ √ √ √ √ √ √ √ √ √	$\begin{array}{c} \\ 1 \\ \\ 1 \\ 1 \\ 1 \\ \sqrt$	1         1            1         1         1         ·	 1   
Quad View         Network Connections         10/100BaseT(X) Ports         100BaseFX Ports         Number of COM Ports         PTZ Ports         RS-232 Console Ports         Network Management and Control         Web Browser         SNMP Protocols         RTSP (Real Time Streaming Protocol)         Multicast (IGMP)         QoS         UPnP         DDNS         PPPoE         IP Filtering         Power Requirements         Power Inputs         Power outputs         Power outputs         Power outputs         Power Outputs         Pidal Inputs         Relay (Digital) Outputs         Alarm Video Recording         Alarm Side Recording         Alarm Side Recording         Alarm South Image         Supported Operating Temperature Ra         0 to 60°C	2         2         1         1         √         ∨1/v2c/v3         √         v3         √	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	 1 1 1 1 1 √ v1/v2c/v3 √ v3 v3 v3 v3 v3 v3 v3 v3 v3 v3	1            1            √         v1/v2c/v3         √         v3            √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         2         0            √         2         2         2         √         √         √	15 FPS (max.) 1  2   √ √ √ √ √ √ √ √ √ √ √ √ √	$\begin{array}{c} \\ 1 \\ \\ 1 \\ 1 \\ 1 \\ \sqrt$	1            1         1         1         1         ·         ··-	 1      
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control Web Browser SNMP Protocols RTSP (Real Time Streaming Protocol) Multicast (IGMP) QoS UPnP DDNS PPPoE IP Filtering Power Reduirements Power Reduirements Power Nutputs Power-outputs Power-outputs Power-outputs Power-outputs Power-outputs Power outputs Relay (Digital) Outputs Alarm Siapshot Image Supported Operating Temperature Ra 0 to 60°C -40 to 50°C	2         2         1         1         √         ∨1/v2c/v3         √ <tr< td=""><td><math display="block">\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1</math></td><td> 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>         1            1            v1/v2c/v3         √         v3            √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         2         0            √         √         √         √         √         √         √         √         √         √            √         √        </td><td>15 FPS (max.) 1  2     √ √ √ √ √ √  1 1 1  1 1  √ √ √  √ √  √ √   √ √   √ √   √ √   √    √   </td><td> 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ √ v3 v3 √ v3 v3 v3 v3 v3 v3 v3 v3 v3 v3</td><td>         1            1</td><td> 1      </td></tr<>	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	 1 1 1 1 1 1 1 1 1 1 1 1 1	1            1            v1/v2c/v3         √         v3            √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         2         0            √         √         √         √         √         √         √         √         √         √            √         √	15 FPS (max.) 1  2     √ √ √ √ √ √  1 1 1  1 1  √ √ √  √ √  √ √   √ √   √ √   √ √   √    √   	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ √ v3 v3 √ v3 v3 v3 v3 v3 v3 v3 v3 v3 v3	1            1	 1      
Quad View Network Connections 10/100BaseT(X) Ports 100BaseFX Ports Number of COM Ports PTZ Ports RS-232 Console Ports Network Management and Control Web Browser SNMP Protocols RTSP (Real Time Streaming Protocol) Multicast (IGMP) QoS UPnP DDNS PPPoE IP Filtering Power Requirements Power Requirements Power Requirements Power Outputs Power outputs Power-outputs Power outputs Power outputs Power outputs Power outputs Power outputs Power Outputs Relay (Digital) Outputs Alarm Nideo Recording Alarm Sinapshot Image Supported Operating Temperature Ra 0 to 60°C -40 to 50°C -40 to 50°C -40 to 50°C -40 to 50°C	2         2         1         1         √         ∨1/v2c/v3         √ <tr< td=""><td><math display="block">\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1</math></td><td> 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>         1            1            v1/v2c/v3         √         v3            √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         2         0            √         √         √         √         √         √         √         √         √         √            √         √        </td><td>15 FPS (max.) 1  2     √ √ √ √ √ √  1 1 1  1 1  √ √ √  √ √  √ √   √ √   √ √   √ √   √    √   </td><td> 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ √ v3 v3 √ v3 v3 v3 v3 v3 v3 v3 v3 v3 v3</td><td>         1            1</td><td> 1      </td></tr<>	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	 1 1 1 1 1 1 1 1 1 1 1 1 1	1            1            v1/v2c/v3         √         v3            √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         2         0            √         √         √         √         √         √         √         √         √         √            √         √	15 FPS (max.) 1  2     √ √ √ √ √ √  1 1 1  1 1  √ √ √  √ √  √ √   √ √   √ √   √ √   √    √   	 1 1 1 1 √ v1/v2c/v3 √ v3 √ v3 √ v3 √ √ v3 v3 √ v3 v3 v3 v3 v3 v3 v3 v3 v3 v3	1            1	 1      
Quad View  Quad View  Network Connections  10/100BaseT(X) Ports  100BaseFX Ports  Number of COM Ports  PTZ Ports RS-232 Console Ports  RS-232 Console Ports  Network Management and Control  Web Browser  SNMP Protocols  RTSP (Real Time Streaming Protocol)  Multicast (IGMP)  QoS UPAP  DDNS PPPoE IP Filtering  Power Redundancy Power Inputs Power outputs Power-over-Ethernet (PoE)  Alarms  VMD (Video Motion Detection) Digital Inputs Relay (Digital) Outputs Alarm Video Recording Alarm Sapshot Image Supported Operating Temperature Ra Ota 60°C -40 to 50°C -40 to 50°C Regulatory Approvals	2 2 2 1 1 1 1 √ √ √ √ √ √ √ √ √ √ √ √ √	$\begin{array}{c} \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	1         1       <	1            1            √         v1/v2c/v3         √         v3            √         √         √         √         √         √         √         √         √         √         √         √         √         √         √         2         0            √ <td>15 FPS (max.) 1  2     </td> <td><math display="block">\begin{array}{c} \\ 1 \\ \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\</math></td> <td>         1            1</td> <td>           1                             √           v1/v2c/v3           √           v1/v2c/v3           √           v3           √           √           √           √           √           √           1           0           √           1           0           √           1           1           0           √           1           1              √              √              √</td>	15 FPS (max.) 1  2     	$\begin{array}{c} \\ 1 \\ \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$	1            1	1                             √           v1/v2c/v3           √           v1/v2c/v3           √           v3           √           √           √           √           √           √           1           0           √           1           0           √           1           1           0           √           1           1              √              √              √

MOXA®

#### **NPort® 6000 Terminal Servers**



	NPort® 6150	NPort® 6250	NPort® 6250-M-SC	NPort® 6250-S-SC	NPort® 6450	NPort® 6610-8	NPort® 6610-8-48V	NPort® 6610-16	NPort® 6610-16-48V
LAN Interface									
10/100BaseT(X) Ports	1 port (8-pin RJ4	5 connector)							
Magnetic Isolation		1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1 5 1/1/	1 5 1/1/	1.5 KV
Protection	1.5 KV	1.0 KV			1.3 KV	1.5 KV	1.5 KV	1.5 KV	1.0 KV
100BaseFX Ports			1 (multi-mode)	1 (single-mode)					
Expansion Modules									
10/100BaseT(X) (RJ45)						V			V
Multi-mode Fiber (SC)					1	1	~	N	1
Single-mode Fiber (SC) GSM/GPRS					N	N		N V	N N
Modem					N	N N	V V	N	N V
Serial Interface					v	v	v	v	v
RS-232 Ports						8	8	16	16
RS-232/422/485 Ports	1	2	2	2	4				
Connectors	DB9 male	DB9 male	DB9 male	DB9 male	DB9 male	8-pin RJ45	8-pin RJ45	8-pin RJ45	8-pin RJ45
Communication						- p			
Parameters			o, Z, Parity. None, E	ven, Odd, Space, Ma	dik				
Flow Control	RTS/CTS, DTR/D								
Baudrate			-standard baudrate	1		.1			.1
15 KV ESD Protection 2 KV isolation	$\checkmark$	V	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
protection									
RS-485 Data Direction	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®
Control					ADD005				
RS-232 Console Port					N	V			$\checkmark$
Advanced Features									
LCD Panel with 4 push buttons					$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Serial Data Log	64 KB	64 KB	64 KB	64 KB	64 KB	64 KB	64 KB	64 KB	64 KB
Offline Port Buffering	64 KB	64 KB	64 KB	64 KB	64 KB	64 KB	64 KB	64 KB	64 KB
SD Slot		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Software									
Network Protocols	ICMP, IP, TCP, UD	)P, DHCP, BOOTP, T	elnet, DNS, SNMP \	V1/V2c/V3, DDNS, H	ITTP, SMTP, HTTP	S, SSL, SSH, PPPoE,	RFC2217, IPv6, IP	v4, Turbo Ring, Turb	o Ring 2
			elnet, DNS, SNMP \ RADIUS, PAP, CHA		HTTP, SMTP, HTTPS	S, SSL, SSH, PPPoE,	RFC2217, IPv6, IP	v4, Turbo Ring, Turb	o Ring 2
Network Protocols	DES, 3DES, AES, Web Console, Tel	SSH, SSL, HTTPS, Inet Console, Serial	RADIUS, PAP, CHA Console, Windows	P, TACACS+ Search Utility					
Network Protocols Security Protocols	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windo river (for 2.4.x, 2.6	RADIUS, PAP, CHA Console, Windows ows 95, 98, ME, NT,	P, TACACS+ Search Utility , 2000, XP x86/x64,	2003 x86/x64, Vis	ta x86/x64, 2008 x86	/x64, Embedded Cl	v4, Turbo Ring, Turb E 5.0/6.0, XP Embed .25, QNX 6, Solaris 1	ded),
Network Protocols Security Protocols Configuration Options	DES, 3DES, AES, Web Console, Tel Windows Driver I	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windo river (for 2.4.x, 2.6	RADIUS, PAP, CHA Console, Windows ows 95, 98, ME, NT,	P, TACACS+ Search Utility , 2000, XP x86/x64,	2003 x86/x64, Vis	ta x86/x64, 2008 x86	/x64, Embedded Cl	E 5.0/6.0, XP Embed	ded),
Network Protocols Security Protocols Configuration Options Driver Support	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windo river (for 2.4.x, 2.6 1i)	RADIUS, PAP, CHA Console, Windows ows 95, 98, ME, NT,	P, TACACS+ Search Utility , 2000, XP x86/x64,	2003 x86/x64, Vis	ta x86/x64, 2008 x86	/x64, Embedded Cl	E 5.0/6.0, XP Embed	ded),
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windo river (for 2.4.x, 2.6 1i) -II	RADIUS, PAP, CHA Console, Windows ows 95, 98, ME, NT, x), Fixed TTY driver	NP, TACACS+ Search Utility , 2000, XP x86/x64, r (for SCO Unix, SCO	2003 x86/x64, Vis O OpenServer, Unix	ta x86/x64, 2008 x86	/x64, Embedded Cl 1, SVR 4.2, QNX 4.	E 5.0/6.0, XP Embed 25, QNX 6, Solaris 1	ded),
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windd river (for 2.4.x, 2.6 1i) -II -II Server, TCP Client, L	RADIUS, PAP, CHA Console, Windows Jws 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio	NP, TACACS+ Search Utility , 2000, XP x86/x64, r (for SCO Unix, SCO	2003 x86/x64, Vis O OpenServer, Unix Ial, Reverse Telnet,	ia x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri	/x64, Embedded Cl 1, SVR 4.2, QNX 4.	E 5.0/6.0, XP Embed 25, QNX 6, Solaris 1	ded),
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windd river (for 2.4.x, 2.6 11) -11 Server, TCP Client, L 1, Secure TCP Server	RADIUS, PAP, CHA Console, Windows Jws 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio	IP, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SC( n, RFC2217, Termin	2003 x86/x64, Vis O OpenServer, Unix Ial, Reverse Telnet,	ia x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri	/x64, Embedded Cl 1, SVR 4.2, QNX 4.	E 5.0/6.0, XP Embed 25, QNX 6, Solaris 1	ded),
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COM	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windd river (for 2.4.x, 2.6 11) -11 Server, TCP Client, L 1, Secure TCP Server	RADIUS, PAP, CHA Console, Windows Jws 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio	IP, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SC( n, RFC2217, Termin	2003 x86/x64, Vis O OpenServer, Unix Ial, Reverse Telnet,	ia x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri	/x64, Embedded Cl 1, SVR 4.2, QNX 4.	E 5.0/6.0, XP Embed 25, QNX 6, Solaris 1	ded),
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COM	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windd river (for 2.4.x, 2.6 11) -11 Server, TCP Client, L 1, Secure TCP Server	RADIUS, PAP, CHA Console, Windows Jws 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio	IP, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SC( n, RFC2217, Termin	2003 x86/x64, Vis O OpenServer, Unix Ial, Reverse Telnet,	ia x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri	/x64, Embedded Cl 1, SVR 4.2, QNX 4.	E 5.0/6.0, XP Embed 25, QNX 6, Solaris 1	ded),
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COM 8 sessions per po	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windd river (for 2.4.x, 2.6 1i) -11 Server, TCP Client, L 1, Secure TCP Serve ort	RADIUS, PAP, CHA Console, Windows ws 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio er, Secure TCP Clier	IP, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin It, Secure Pair Conn	2003 x86/x64, Vis O OpenServer, Unix al, Reverse Telnet, lection, SSH, Rever	ta x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri se SSH	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled	E 5.0/6.0, XP Embed 25, QNX 6, Solaris 1	ded), O, FreeBSD,
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics Housing	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COM 8 sessions per po Metal	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Winder river (for 2.4.x, 2.6 1i) -II Server, TCP Client, L I, Secure TCP Serve ort Metal	RADIUS, PAP, CHA Console, Windows ows 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio er, Secure TCP Clier Metal	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin nt, Secure Pair Conn Metal	2003 x86/x64, Vis O OpenServer, Unix al, Reverse Telnet, vection, SSH, Rever Metal (IP30)	ta x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri se SSH Metal (IP30)	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30)	E 5.0/6.0, XP Embed 25, QNX 6, Solaris 1 Metal (IP30)	ded), 0, FreeBSD, Metal (IP30) 3580 g
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Secure Operation Modes Physical Characteristics Housing Weight	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COM 8 sessions per por Metal 700 g	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windt river (for 2.4.x, 2.6 1i) -II Server, TCP Client, L I, Secure TCP Serve ort Metal 730 g	RADIUS, PAP, CHA Console, Windows ows 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio er, Secure TCP Clier Metal 730 g	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin nt, Secure Pair Conn Metal 730 g	2003 x86/x64, Vis O OpenServer, Unix al, Reverse Telnet, nection, SSH, Rever Metal (IP30) 1020 g	ia x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri se SSH Metal (IP30) 3460 g	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30) 3460 g	E 5.0/6.0, XP Embed 25, QNX 6, Solaris 1 Metal (IP30) 3580 g	ded), 0, FreeBSD, Metal (IP30) 3580 g
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COM 8 sessions per por Metal 700 g 67 x 100.4 x 28	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windt river (for 2.4.x, 2.6 1i) -II Server, TCP Client, L I, Secure TCP Serve ort Metal 730 g	RADIUS, PAP, CHA Console, Windows ows 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio er, Secure TCP Clier Metal 730 g	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin nt, Secure Pair Conn Metal 730 g	2003 x86/x64, Vis O OpenServer, Unix al, Reverse Telnet, nection, SSH, Rever Metal (IP30) 1020 g	ia x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri se SSH Metal (IP30) 3460 g	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30) 3460 g	E 5.0/6.0, XP Embed 25, QNX 6, Solaris 1 Metal (IP30) 3580 g	ded), 0, FreeBSD, Metal (IP30) 3580 g
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Temperature	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COM 8 sessions per por Metal 700 g 67 x 100.4 x 28 0 to 55°C 5 to 95% RH	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Winddriver (for 2.4.x, 2.6 11) -II server, TCP Client, L 1, Secure TCP Server ort Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH	RADIUS, PAP, CHA Console, Windows yws 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio er, Secure TCP Clier Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin at, Secure Pair Conn Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH	2003 x86/x64, Vis 0 OpenServer, Unix al, Reverse Telnet, ecction, SSH, Rever Metal (IP30) 1020 g 158 x 103 x 35 0 to 55°C 5 to 95% RH	ta x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri se SSH Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COM 8 sessions per por Metal 700 g 67 x 100.4 x 28 0 to 55°C	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Winddriver (for 2.4.x, 2.6- 11) -II Server, TCP Client, L 1, Secure TCP Server ort Metal 730 g 77 x 111 x 28 0 to 55°C	RADIUS, PAP, CHA Console, Windows ws 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio ar, Secure TCP Clier Metal 730 g 77 x 111 x 28 0 to 55°C	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin at, Secure Pair Conn Metal 730 g 77 x 111 x 28 0 to 55°C	2003 x86/x64, Vis 0 OpenServer, Unix al, Reverse Telnet, ecction, SSH, Rever Metal (IP30) 1020 g 158 x 103 x 35 0 to 55°C	ia x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri se SSH Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C	Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C	ded), 0, FreeBSD, 3580 g 440 x 195 x 44 0 to 55°C
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COW 8 sessions per po Metal 700 g 67 x 100.4 x 28 0 to 55°C 5 to 95% RH -20 to 85°C	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Winder river (for 2.4.x, 2.6 11) II Berver, TCP Client, L I, Secure TCP Serve ort Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH 20 to 85°C	RADIUS, PAP, CHA Console, Windows yws 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio er, Secure TCP Clier Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin nt, Secure Pair Conn Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C	2003 x86/x64, Vis O OpenServer, Unix al, Reverse Telnet, tection, SSH, Rever Metal (IP30) 1020 g 158 x 103 x 35 0 to 55°C 5 to 95% RH -20 to 70°C	ta x86/x64, 2008 x86 Ware 7, UnixWare 2, Ethernet Modem, Pri se SSH Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C	Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C	ded), 0, FreeBSD, 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COM 8 sessions per pro- Metal 700 g 67 x 100.4 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windr Triver (for 2.4.x, 2.6 1i) -II Server, TCP Client, L I, Secure TCP Serve ort Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C	RADIUS, PAP, CHA Console, Windows yws 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio er, Secure TCP Clier Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin tt, Secure Pair Conn Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC	2003 x86/x64, Vis 0 OpenServer, Unix al, Reverse Telnet, nection, SSH, Rever Metal (IP30) 1020 g 158 x 103 x 35 0 to 55°C 5 to 95% RH -20 to 70°C	ta x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri se SSH Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	Metal (IP30) 25, QNX 6, Solaris 1 25, QNX 6, Solaris 1 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC	ded), 0, FreeBSD, 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Temperature Operating Humidity Storage Temperature Power Requirements Input Voltage	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COM 8 sessions per pro- Metal 700 g 67 x 100.4 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windt river (for 2.4.x, 2.6 1i) -II Server, TCP Client, L I, Secure TCP Serve ort Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 333 mA @ 12 V	RADIUS, PAP, CHA Console, Windows yws 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio er, Secure TCP Clier Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin at, Secure Pair Conn Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 376 mA @ 12 V	2003 x86/x64, Vis 0 OpenServer, Unix al, Reverse Telnet, nection, SSH, Rever Metal (IP30) 1020 g 158 x 103 x 35 0 to 55°C 5 to 95% RH -20 to 70°C	ia x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri se SSH Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C	Metal (IP30) 25, QNX 6, Solaris 1 25, QNX 6, Solaris 1 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC	ded), 0, FreeBSD, 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Secure Operation Modes Physical Characteristics Housing Hysical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COW 8 sessions per po Metal 700 g 67 x 100.4 x 28 0 to 55°C 5 to 95% RH -20 to 85°C	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windr Triver (for 2.4.x, 2.6 1i) -II Server, TCP Client, L I, Secure TCP Serve ort Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C	RADIUS, PAP, CHA Console, Windows yws 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio er, Secure TCP Clier Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin tt, Secure Pair Conn Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC	2003 x86/x64, Vis O OpenServer, Unix al, Reverse Telnet, tection, SSH, Rever Metal (IP30) 1020 g 158 x 103 x 35 0 to 55°C 5 to 95% RH -20 to 70°C	ta x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri se SSH Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC	Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C	ded), 0, FreeBSD, 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Temperature Operating Temperature Operating Temperature Power Requirements Input Voltage Power Consumption Regulatory Approvals	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COM 8 sessions per por Metal 700 g 67 x 100.4 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 285 mA @ 12 V 150 mA @ 24 V	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windt river (for 2.4.x, 2.6 11) -II Server, TCP Client, L 1, Secure TCP Server ort Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 333 mA @ 12 V 173 mA @ 24 V	RADIUS, PAP, CHA Console, Windows JWS 95, 98, ME, NT, X), Fixed TTY drived JDP, Pair Connectio ar, Secure TCP Clier Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 428 mA @ 12 V 219 mA @ 24 V	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin at, Secure Pair Conn Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 376 mA @ 12 V 193 mA @ 24 V	2003 x86/x64, Vis 0 OpenServer, Unix al, Reverse Telnet, nection, SSH, Rever Metal (IP30) 1020 g 158 x 103 x 35 0 to 55°C 5 to 95% RH -20 to 70°C	ia x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri se SSH Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC	Metal (IP30) 25, QNX 6, Solaris 1 25, QNX 6, Solaris 1 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC	ded), 0, FreeBSD, 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Operating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption Regulatory Approvals EMC	DES, 3DES, AES, Web Console, Tel Windows Driver 1 Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COW 8 sessions per po Metal 700 g 67 x 100.4 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 285 mA @ 12 V 150 mA @ 24 V CE (EN55022 Cla	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Winder river (for 2.4.x, 2.6 11) -II iserver, TCP Client, L i, Secure TCP Serve ort Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 333 mA @ 12 V 173 mA @ 24 V rss A, EN55024), FC	RADIUS, PAP, CHA Console, Windows yws 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio er, Secure TCP Clier Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin at, Secure Pair Conn Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 376 mA @ 12 V 193 mA @ 24 V	2003 x86/x64, Vis 0 OpenServer, Unix al, Reverse Telnet, nection, SSH, Rever Metal (IP30) 1020 g 158 x 103 x 35 0 to 55°C 5 to 95% RH -20 to 70°C	ia x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri se SSH Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC	Metal (IP30) 25, QNX 6, Solaris 1 25, QNX 6, Solaris 1 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC	ded), 0, FreeBSD, 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Secure Operation Modes Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Temperature Operating Temperature Operating Temperature Power Requirements Input Voltage Power Consumption Regulatory Approvals EMC Safety	DES, 3DES, AES, Web Console, Tel Windows Driver 1 Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COW 8 sessions per pr Metal 700 g 67 x 100.4 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 285 mA @ 12 V 150 mA @ 24 V CE (EN55022 Cla UL (UL60950-1), EN61000-4-4 (EE	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windt river (for 2.4.x, 2.6 1i) -II Server, TCP Client, L I, Secure TCP Serve ort Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 333 mA @ 12 V 173 mA @ 24 V Ss A, EN55024), FC TÜV (EN60950-1) 3D, Level 2	RADIUS, PAP, CHA Console, Windows JWS 95, 98, ME, NT, X), Fixed TTY drived JDP, Pair Connectio ar, Secure TCP Clier Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 428 mA @ 12 V 219 mA @ 24 V	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin at, Secure Pair Conn Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 376 mA @ 12 V 193 mA @ 24 V	2003 x86/x64, Vis 0 OpenServer, Unix al, Reverse Telnet, nection, SSH, Rever Metal (IP30) 1020 g 158 x 103 x 35 0 to 55°C 5 to 95% RH -20 to 70°C	ta x86/x64, 2008 x86 Ware 7, UnixWare 2, Ethernet Modem, Pri se SSH Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V EN61000-4-2 (ESI EN61000-4-4 (EFI	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V 0), Level 3 ), Level 2	Metal (IP30) 25, QNX 6, Solaris 1 25, QNX 6, Solaris 1 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC	ded), 0, FreeBSD, 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption Regulatory Approvals EMC Safety EMS	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP- Real COM, TCP S Secure Real COM 8 sessions per pro- Metal 700 g 67 x 100.4 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 285 mA @ 12 V 150 mA @ 24 V CE (EN55022 Cla UL (UL60950-1),	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windt river (for 2.4.x, 2.6 1i) -II Server, TCP Client, L I, Secure TCP Serve ort Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 333 mA @ 12 V 173 mA @ 24 V Ss A, EN55024), FC TÜV (EN60950-1) 3D, Level 2	RADIUS, PAP, CHA Console, Windows JWS 95, 98, ME, NT, X), Fixed TTY drived JDP, Pair Connectio ar, Secure TCP Clier Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 428 mA @ 12 V 219 mA @ 24 V	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin at, Secure Pair Conn Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 376 mA @ 12 V 193 mA @ 24 V	2003 x86/x64, Vis 0 OpenServer, Unix al, Reverse Telnet, nection, SSH, Rever Metal (IP30) 1020 g 158 x 103 x 35 0 to 55°C 5 to 95% RH -20 to 70°C	ia x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri se SSH Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V 0), Level 3 ), Level 2	Metal (IP30) 25, QNX 6, Solaris 1 25, QNX 6, Solaris 1 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC	ded), 0, FreeBSD, 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption Regulatory Approvals EMC Safety EMS	DES, 3DES, AES, Web Console, Tel Windows Driver 1 Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COW 8 sessions per pr Metal 700 g 67 x 100.4 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 285 mA @ 12 V 150 mA @ 24 V CE (EN55022 Cla UL (UL60950-1), EN61000-4-4 (EE	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Windt river (for 2.4.x, 2.6 1i) -II Server, TCP Client, L I, Secure TCP Serve ort Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 333 mA @ 12 V 173 mA @ 24 V Ss A, EN55024), FC TÜV (EN60950-1) 3D, Level 2	RADIUS, PAP, CHA Console, Windows JWS 95, 98, ME, NT, X), Fixed TTY drived JDP, Pair Connectio ar, Secure TCP Clier Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 428 mA @ 12 V 219 mA @ 24 V	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin at, Secure Pair Conn Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 376 mA @ 12 V 193 mA @ 24 V	2003 x86/x64, Vis 0 OpenServer, Unix al, Reverse Telnet, nection, SSH, Rever Metal (IP30) 1020 g 158 x 103 x 35 0 to 55°C 5 to 95% RH -20 to 70°C	ta x86/x64, 2008 x86 Ware 7, UnixWare 2, Ethernet Modem, Pri se SSH Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V EN61000-4-2 (ESI EN61000-4-4 (EFI	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V 0), Level 3 ), Level 2	Metal (IP30) 25, QNX 6, Solaris 1 25, QNX 6, Solaris 1 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC	ded), 0, FreeBSD, 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C
Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption Regulatory Approvals EMC Safety EMS	DES, 3DES, AES, Web Console, Tel Windows Driver I Linux Real TTY d AIX 5.x, HP-UX 1 SNMP MIB-II Static, RIP-I, RIP Real COM, TCP S Secure Real COM 8 sessions per pr Metal 700 g 67 x 100.4 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 285 mA @ 12 V 150 mA @ 24 V CE (EN55022 Cla UL (UL60950-1), EN61000-4-2 (EE EN61000-4-5 (Su	SSH, SSL, HTTPS, Inet Console, Serial Manager (for Winder river (for 2.4.x, 2.6 1i) -II Server, TCP Client, L I, Secure TCP Serve ort Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 333 mA @ 12 V 173 mA @ 24 V SS A, EN55024), FC TÜV (EN60950-1) SD), Level 2 T), Level 2 T), Level 2	RADIUS, PAP, CHA Console, Windows yws 95, 98, ME, NT, x), Fixed TTY driver JDP, Pair Connectio er, Secure TCP Clier Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 428 mA @ 12 V 219 mA @ 24 V 30 CPart 15 Subpart I	P, TACACS+ Search Utility 2000, XP x86/x64, r (for SCO Unix, SCO n, RFC2217, Termin tt, Secure Pair Conn Metal 730 g 77 x 111 x 28 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 376 mA @ 12 V 193 mA @ 24 V B Class A	2003 x86/x64, Vis O OpenServer, Unix al, Reverse Telnet, nection, SSH, Rever Metal (IP30) 1020 g 158 x 103 x 35 0 to 55°C 5 to 95% RH -20 to 70°C 12 to 48 VDC 730 mA @ 12 V 330 mA @ 24 V	ta x86/x64, 2008 x86 Ware 7, UnixWare 2. Ethernet Modem, Pri se SSH Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V EN61000-4-2 (ESI EN61000-4-2 (ESI EN61000-4-5 (Sur	/x64, Embedded Cl 1, SVR 4.2, QNX 4. nter, PPP, Disabled Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V ), Level 3 ), Level 3 ), Level 3	Metal (IP30) 25, QNX 6, Solaris 1 25, QNX 6, Solaris 1 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V	ded), 0, FreeBSD, 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V

MOXA

#### **NPort® 6000 Terminal Servers**



	NPort® 6610-32	NPort® 6610-32-48V	NPort® 6650-8	NPort® 6650-8-48V	NPort® 6650-16	NPort® 6650-16-48V	NPort® 6650-32	NPort® 6650-32-48V
LAN Interface				,	•	,		
10/100BaseT(X) Ports	1 port (8-pin RJ45	connector)						
Magnetic Isolation Protection	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV
100BaseFX Ports								
Expansion Modules								
10/100BaseT(X) (RJ45)	$\checkmark$			$\checkmark$			$\checkmark$	
Multi-mode Fiber (SC)	V	V V	V	V	V	V	V	V
Single-mode Fiber (SC)	V	V	V	1	V	V	V V	V
GSM/GPRS	V	1	V	V	V	V	√	1
Modem	V	V	V	V	V		1	V
Serial Interface								
RS-232 Ports	32	32						
RS-232/422/485 Ports			8	8	16	16	32	32
Connectors	8-pin RJ45	8-pin RJ45	8-pin RJ45	8-pin RJ45	8-pin RJ45	8-pin RJ45	8-pin RJ45	8-pin RJ45
Communication	Data Bits: 5, 6, 7, 8	: Stop Bits: 1. 1.5. 2:	Parity: None, Even, Od	ld. Space. Mark				
Parameters Flow Control	RTS/CTS, DTR/DSF			.,				
Baudrate		ps (supports non-sta	ndard baudrates)					
15 KV ESD Protection	√	√	√	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
2 KV isolation								
protection								
RS-485 Data Direction Control	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®
RS-232 Console Port	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	1	$\checkmark$
Advanced Features								
LCD Panel with 4 push	$\checkmark$			$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
buttons	N	N	N	N	N	N		
	CALIZE	64 KB	64 KB	64 KB	64 KB	64 KB	64 KB	64 KB
0	64 KB							
Offline Port Buffering	64 KB	64 KB	64 KB	64 KB	64 KB	64 KB	64 KB	64 KB
Offline Port Buffering SD Slot Software Network Protocols Security Protocols	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA	64 KB √	64 KB √ №3, DDNS, HTTP, SN ACS+	64 KB √		64 KB √ 2v6, IPv4, Turbo Ring,	$\checkmark$
Offline Port Buffering SD Slot Software Network Protocols Security Protocols Configuration Options Driver Support Management	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S Web Console, Telne Windows Driver Ma	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor nager (for Windows er (for 2.4.x, 2.6.x), )	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, Isole, Windows Search 95, 98, ME, NT, 2000,	64 KB √ V3, DDNS, HTTP, SM ACS+ Utility XP x86/x64, 2003 x8	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed	$\checkmark$	√ Turbo Ring 2 nbedded),
Offline Port Buffering SD Slot Software Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S: Web Console, Telne Windows Driver Ma Linux Real TTY driv VAIX 5.x, HP-UX 111 SMMP MIB-II Static, RIP-I, RIP-II	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Windows er (for 2.4.x, 2.6.x), )	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, Isole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S	64 KB √ N3, DDNS, HTTP, SM ACS+ Utility XP x86/x64, 2003 x8 C0 Unix, SCO OpenS	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, I	√ Pv6, IPv4, Turbo Ring, Ided CE 5.0/6.0, XP Em QNX 4.25, QNX 6, Sola	√ Turbo Ring 2 nbedded),
Offline Port Buffering SD Slot Software Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S: Web Console, Telne Windows Driver Ma Linux Real TTY driv AIX 5, HP-UX 11 SMMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Vindows er (for 2.4.x, 2.6.x), ) ver, TCP Client, UDP, Secure TCP Server, S	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, Isole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S	64 KB √ ACS+ Utility XP x86/x64, 2003 x8 C0 Unix, SCO OpenS 2217, Terminal, Reven	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unix se Telnet, Ethernet Mo	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, I	√ Pv6, IPv4, Turbo Ring, Ided CE 5.0/6.0, XP Em QNX 4.25, QNX 6, Sola	√ Turbo Ring 2 nbedded),
Offline Port Buffering SD Slot Software Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S' Web Console, Telne Windows Driver Ma Linux Real TTY driv VAIX 5.x, HP-UX 11 SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Ser	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Vindows er (for 2.4.x, 2.6.x), ) ver, TCP Client, UDP, Secure TCP Server, S	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, Isole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC;	64 KB √ ACS+ Utility XP x86/x64, 2003 x8 C0 Unix, SCO OpenS 2217, Terminal, Reven	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unix se Telnet, Ethernet Mo	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, I	√ Pv6, IPv4, Turbo Ring, Ided CE 5.0/6.0, XP Em QNX 4.25, QNX 6, Sola	√ Turbo Ring 2 nbedded),
Offline Port Buffering SD Slot Software Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S' Web Console, Telne Windows Driver Ma Linux Real TTY driv AIX 5.x, HP-UX 11 SMMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Windows er (for 2.4.x, 2.6.x), ) ver, TCP Client, UDP, Secure TCP Server, S	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, Isole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC2 ecure TCP Client, Secu	64 KB √ V(3, DDNS, HTTP, SN ACS+ Utility XP x86/x64, 2003 x8 CO Unix, SCO OpenS 2217, Terminal, Rever Ire Pair Connection, S	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Uni se Telnet, Ethernet Mo iSH, Reverse SSH	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, 1 dem, Printer, PPP, Di	√ Pv6, IPv4, Turbo Ring, T Ided CE 5.0/6.0, XP Err QNX 4.25, QNX 6, Sola sabled	√ Turbo Ring 2 Ibedded), ris 10, FreeBSD,
Offline Port Buffering SD Slot Software Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics Housing	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S' Web Console, Telne Windows Driver ME Linux Real TTY driv VAIX 5.x, HP-UX 11 SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30)	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor mager (for Vindows er (for 2.4.x, 2.6.x), ) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30)	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, Isole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC; ecure TCP Client, Secu Metal (IP30)	64 KB √ V(3, DDNS, HTTP, SM ACS+ Utility XP x86/x64, 2003 x8 CO Unix, SCO OpenS 2217, Terminal, Rever Ire Pair Connection, S Metal (IP30)	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unit se Telnet, Ethernet Mo iSH, Reverse SSH Metal (IP30)	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed WWare 2.1, SVR 4.2, I dem, Printer, PPP, Di Metal (IP30)	√ Pv6, IPv4, Turbo Ring, T Ided CE 5.0/6.0, XP Em QNX 4.25, QNX 6, Sola sabled Metal (IP30)	√ Turbo Ring 2 nbedded), ris 10, FreeBSD, Metal (IP30)
Diffline Port Buffering SD Slot Software Network Protocols Security Protocols Configuration Options Driver Support Management P Routing Standard Operation Wodes Secure Operation Wodes Terminal Sessions Physical Characteristics Housing Neight	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S: Web Console, Telme Windows Driver Ma Linux Real TTY driv VAIX 5 x, HP-UX 11 SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30) 3600 g	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Vindows er (for 2.4.x, 2.6.x), )) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30) 3600 g	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, Isole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC; ecure TCP Client, Secu Metal (IP30) 3460 g	64 KB √ V(3, DDNS, HTTP, SM ACS+ Utility XP x86/x64, 2003 x8 CO Unix, SCO OpenS 2217, Terminal, Rever Irre Pair Connection, S Metal (IP30) 3460 g	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Uni se Telnet, Ethernet Mo iSH, Reverse SSH Metal (IP30) 3580 g	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed Ware 2.1, SVR 4.2, I dem, Printer, PPP, Di Metal (IP30) 3580 g	√ Pv6, IPv4, Turbo Ring, T Ided CE 5.0/6.0, XP Err QNX 4.25, QNX 6, Sola sabled Metal (IP30) 3600 g	√ Turbo Ring 2 hbedded), ris 10, FreeBSD, Metal (IP30) 3600 g
Diffline Port Buffering SD Slot Software Network Protocols Security Protocols Configuration Options Driver Support Management P Routing Standard Operation Wodes Secure Operation Wodes Terminal Sessions Physical Characteristics Housing Neight Dimensions (mm)	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S' Web Console, Telne Windows Driver ME Linux Real TTY driv VAIX 5.x, HP-UX 11 SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30)	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor mager (for Vindows er (for 2.4.x, 2.6.x), ) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30)	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, Isole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC; ecure TCP Client, Secu Metal (IP30)	64 KB √ V(3, DDNS, HTTP, SM ACS+ Utility XP x86/x64, 2003 x8 CO Unix, SCO OpenS 2217, Terminal, Rever Ire Pair Connection, S Metal (IP30)	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unit se Telnet, Ethernet Mo iSH, Reverse SSH Metal (IP30)	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed WWare 2.1, SVR 4.2, I dem, Printer, PPP, Di Metal (IP30)	√ Pv6, IPv4, Turbo Ring, T Ided CE 5.0/6.0, XP Em QNX 4.25, QNX 6, Sola sabled Metal (IP30)	√ Turbo Ring 2 nbedded), ris 10, FreeBSD, Metal (IP30)
Offline Port Buffering SD Slot Software Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Secure Operation Modes Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S: Web Console, Telne Windows Driver Ma Linux Real TTY driv (NIX 5x, HP-UX 11) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30) 3600 g 440 x 195 x 44	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Windows er (for 2.4.x, 2.6.x), )) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30) 3600 g 440 x 195 x 44	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, issole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC2 ecure TCP Client, Secu Metal (IP30) 3460 g 440 x 195 x 44	64 KB √ V3, DDNS, HTTP, SM ACS+ Utility XP x86/x64, 2003 x8 C0 Unix, SCO OpenS 2217, Terminal, Revel re Pair Connection, S Metal (IP30) 3460 g 440 x 195 x 44	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unit se Telnet, Ethernet Mo iSH, Reverse SSH Metal (IP30) 3580 g 440 x 195 x 44	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, I dem, Printer, PPP, Di Metal (IP30) 3580 g 440 x 195 x 44	√ Pv6, IPv4, Turbo Ring, T Ided CE 5.0/6.0, XP Err QNX 4.25, QNX 6, Sola sabled Metal (IP30) 3600 g 440 x 195 x 44	√ Turbo Ring 2 hbedded), ris 10, FreeBSD, ris 10, FreeBSD, 3600 g 440 x 195 x 44
Offline Port Buffering SD Slot Software Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Secure Operation Modes Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S: Web Console, Telne Windows Driver Ma Linux Real TTY driv (AIX 5.x, HP-UX 11) SMMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor mager (for Windows er (for 2.4.x, 2.6.x), )) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, isole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC; ecure TCP Client, Secu Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C	64 KB √ V(3, DDNS, HTTP, SM ACS+ Utility XP x86/x64, 2003 x8 CO Unix, SCO OpenS 2217, Terminal, Rever the Pair Connection, S Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unit rse Telnet, Ethernet Mo iSH, Reverse SSH Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, 0 dem, Printer, PPP, Di Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C	√ Pv6, IPv4, Turbo Ring, Ided CE 5.0/6.0, XP Em QNX 4.25, QNX 6, Sola sabled Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C	√ Turbo Ring 2 hbedded), ris 10, FreeBSD, Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C
Diffline Port Buffering SD Slot Software Vetwork Protocols Security Protocols Configuration Options Driver Support Vanagement P Routing Standard Operation Vodes Secure Operation Vodes Ferminal Sessions Physical Characteristics Housing Veight Dimensions (mm) Environmental Limits Deperating Temperature Deperating Humidity	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S: Web Console, Telne Windows Driver Ma Linux Real TTY driv (NIX 5x, HP-UX 11) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30) 3600 g 440 x 195 x 44	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Windows er (for 2.4.x, 2.6.x), )) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30) 3600 g 440 x 195 x 44	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, issole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC2 ecure TCP Client, Secu Metal (IP30) 3460 g 440 x 195 x 44	64 KB √ V3, DDNS, HTTP, SM ACS+ Utility XP x86/x64, 2003 x8 C0 Unix, SCO OpenS 2217, Terminal, Revel re Pair Connection, S Metal (IP30) 3460 g 440 x 195 x 44	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unit se Telnet, Ethernet Mo iSH, Reverse SSH Metal (IP30) 3580 g 440 x 195 x 44	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, I dem, Printer, PPP, Di Metal (IP30) 3580 g 440 x 195 x 44	√ Pv6, IPv4, Turbo Ring, T Ided CE 5.0/6.0, XP Err QNX 4.25, QNX 6, Sola sabled Metal (IP30) 3600 g 440 x 195 x 44	√ Turbo Ring 2 hbedded), ris 10, FreeBSD, ris 10, FreeBSD, 3600 g 440 x 195 x 44
Offline Port Buffering SD Slot Software Vetwork Protocols Security Protocols Configuration Options Oriver Support Management P Routing Standard Operation Modes Secure Operation Secure Operation Vodes Ferminal Sessions Physical Characteristics Housing Neight Dimensions (mm) Environmental Limits Operating Temperature Operating Temperature	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S: Web Console, Telne Windows Driver Ma Linux Real TTY driver Ma Linux Real TTY driver Ma Linux Real TTY driver Ma Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Windows er (for 2.4.x, 2.6.x), ) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	64 KB √ t, DNS, SNMP V1/V2c DIUS, PAP, CHAP, TAC. isole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC; ecure TCP Client, Secu- Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	64 KB √ V(3, DDNS, HTTP, SM ACS+ Utility XP x86/x64, 2003 x8 CO Unix, SCO OpenS 2217, Terminal, Rever Ire Pair Connection, S Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unit se Telnet, Ethernet Mo isSH, Reverse SSH Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, 0 dem, Printer, PPP, Di Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	√ Pv6, IPv4, Turbo Ring, ided CE 5.0/6.0, XP Err QNX 4.25, QNX 6, Sola sabled Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	√ Turbo Ring 2 hbedded), ris 10, FreeBSD, is 10, Fre
Diffline Port Buffering SD Slot Software Vetwork Protocols Security Protocols Configuration Options Driver Support Management P Routing Standard Operation Modes Secure Operation Modes Secure Operation Modes Physical Characteristics Housing Neight Dimensions (mm) Environmental Limits Operating Temperature Operating Temperature Operating Temperature Power Requirements	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S: Web Console, Telne Windows Driver Ma Linux Real TTY driver Ma Linux Real TTY driver Ma Linux Real TTY driver Ma Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Windows er (for 2.4.x, 2.6.x), ) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	64 KB √ t, DNS, SNMP V1/V2c DIUS, PAP, CHAP, TAC. isole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC; ecure TCP Client, Secu- Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	64 KB √ V(3, DDNS, HTTP, SM ACS+ Utility XP x86/x64, 2003 x8 CO Unix, SCO OpenS 2217, Terminal, Rever Ire Pair Connection, S Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unit se Telnet, Ethernet Mo isSH, Reverse SSH Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, 0 dem, Printer, PPP, Di Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	√ Pv6, IPv4, Turbo Ring, ided CE 5.0/6.0, XP Err QNX 4.25, QNX 6, Sola sabled Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH	√ Turbo Ring 2 hbedded), ris 10, FreeBSD, is 10, Fre
Diffline Port Buffering SD Slot Software Vetwork Protocols Security Protocols Configuration Options Driver Support Vanagement P Routing Standard Operation Vodes Secure Operation Vodes Ferminal Sessions Physical Characteristics Housing Veight Dimensions (mm) Environmental Limits Deperating Temperature Deprating Temperature Power Requirements nput Voltage	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S: Web Console, Telne Windows Driver MB Linux Real TTY driv AIX 52, HP-UR IN Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTP'S, RA t Console, Serial Cor inager (for Windows er (for 2.4.x, 2.6.x), ) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30) 3600 g 440 × 195 × 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, isole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC: ecure TCP Client, Secu Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	64 KB √ V(3, DDNS, HTTP, SN ACS+ Utility XP x86/x64, 2003 x8 CO Unix, SCO OpenS 2217, Terminal, Rever rre Pair Connection, S Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC	64 KB √ TP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unit se Telnet, Ethernet Mo iSH, Reverse SSH Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, 1 dem, Printer, PPP, Di dem, Printer, PPP, Di 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC	√ Pv6, IPv4, Turbo Ring, Ided CE 5.0/6.0, XP Err QNX 4.25, QNX 6, Sola sabled Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	√ Turbo Ring 2 hbedded), ris 10, FreeBSD, is 10, Fre
Offline Port Buffering SD Slot Software Vetwork Protocols Security Protocols Configuration Options Driver Support Management P Routing Standard Operation Modes Secure Operation Modes Physical Characteristics Housing Physical Characteristics Housing H	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S' Web Console, Telme Windows Driver Mg Linux Real TTY driv VAIX 5 x, HP-UX 11 SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Windows er (for 2.4.x, 2.6.x), ) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, Isole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC; ecure TCP Client, Secu Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC	64 KB √ (V3, DDNS, HTTP, SN ACS+ Utility XP x86/x64, 2003 x8 CO Unix, SCO OpenS 2217, Terminal, Rever re Pair Connection, S Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unix se Telnet, Ethernet Mo iSH, Reverse SSH Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, 1 dem, Printer, PPP, Di dem, Printer, PPP, Di 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C	√ 2v6, IPv4, Turbo Ring, Ided CE 5.0/6.0, XP Err QNX 4.25, QNX 6, Sola sabled Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC	√ Turbo Ring 2 bedded), ris 10, FreeBSD, ris 10, FreeBSD, a 600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C
Diffline Port Buffering SD Slot Software Vetwork Protocols Security Protocols Configuration Options Oriver Support Vanagement P Routing Standard Operation Wodes Secure Operation Wodes Secure Operation Wodes Physical Characteristics Housing Neight Dimensions (mm) Environmental Limits Operating Temperature Operating Temperature Operating Temperature Power Requirements nput Voltage Power Consumption Regulatory Approvals	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S: Web Console, Telne Windows Driver Ma Linux Real TTY driv YAIX 5x, HP-UR SMPP MIB-II Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Windows er (for 2.4.x, 2.6.x), ) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V	64 KB √ t, DNS, SNMP V1/V2c DIUS, PAP, CHAP, TAC. isole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC2 ecure TCP Client, Secu- Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V	64 KB √ V(3, DDNS, HTTP, SN ACS+ Utility XP x86/x64, 2003 x8 CO Unix, SCO OpenS 2217, Terminal, Rever rre Pair Connection, S Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V	64 KB √ TP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unit se Telnet, Ethernet Mo iSH, Reverse SSH Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, 1 dem, Printer, PPP, Di dem, Printer, PPP, Di 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC	√ Pv6, IPv4, Turbo Ring, Ided CE 5.0/6.0, XP Err QNX 4.25, QNX 6, Sola sabled Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	√ Turbo Ring 2 hbedded), ris 10, FreeBSD, is 10, Fre
Diffline Port Buffering SD Slot Software Vetwork Protocols Security Protocols Configuration Options Driver Support Management P Routing Standard Operation Modes Secure Operation Modes Secure Operation Modes Ferminal Sessions Physical Characteristics Housing Neight Dimensions (mm) Environmental Limits Deprating Temperature Deprating Temperature Power Requirements Input Voltage Power Consumption Regulatory Approvals EMC	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S' Web Console, Telne Windows Driver Ma Linux Real TTY driv VAIX 5 x, HP-UX 11 Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V CE (EN55022 Class	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Windows er (for 2.4.x, 2.6.x), ) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V A, EN55024), FCC P	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, isole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC: ecure TCP Client, Secu Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	64 KB √ V(3, DDNS, HTTP, SN ACS+ Utility XP x86/x64, 2003 x8 CO Unix, SCO OpenS 2217, Terminal, Rever rre Pair Connection, S Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V	64 KB √ TP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unit se Telnet, Ethernet Mo iSH, Reverse SSH Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, 1 dem, Printer, PPP, Di dem, Printer, PPP, Di 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC	√ Pv6, IPv4, Turbo Ring, Ided CE 5.0/6.0, XP Err QNX 4.25, QNX 6, Sola sabled Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	√ Turbo Ring 2 hbedded), ris 10, FreeBSD, is 10, Fre
Diffline Port Buffering SD Slot Software Vetwork Protocols Security Protocols Configuration Options Driver Support Vanagement P Routing Standard Operation Wodes Secure Operation Wodes Secure Operation Wodes Secure Operation Wodes Physical Characteristics Housing Veight Dimensions (mm) Environmental Limits Operating Temperature Operating Temperature O	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S: Web Console, Telne Windows Driver Ma Linux Real TTY driv (NIX 5x, HP-UX 11) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V CE (EN55022 Class UL (UL60950-1), TI	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Windows er (for 2.4.x, 2.6.x), )) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V A, EN55024), FCC P ÜV (EN60950-1)	64 KB √ t, DNS, SNMP V1/V2c DIUS, PAP, CHAP, TAC. isole, Windows Search 95, 98, ME, NT, 2000. Fixed TTY driver (for S Pair Connection, RFC2 ecure TCP Client, Secu- Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V	64 KB √ V(3, DDNS, HTTP, SN ACS+ Utility XP x86/x64, 2003 x8 CO Unix, SCO OpenS 2217, Terminal, Rever rre Pair Connection, S Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V	64 KB √ TP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unit se Telnet, Ethernet Mo iSH, Reverse SSH Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, 1 dem, Printer, PPP, Di dem, Printer, PPP, Di 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC	√ Pv6, IPv4, Turbo Ring, Ided CE 5.0/6.0, XP Err QNX 4.25, QNX 6, Sola sabled Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	√ Turbo Ring 2 hbedded), ris 10, FreeBSD, is 10, Fre
Diffline Port Buffering SD Slot Software Vetwork Protocols Security Protocols Configuration Options Driver Support Management P Routing Standard Operation Modes Secure Operation Modes Secure Operation Modes Physical Characteristics Housing Neight Dimensions (mm) Environmental Limits Operating Temperature Operating Temperature Power Requirements Input Voltage Power Consumption Regulatory Approvals EMC Safety EMS	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S' Web Console, Telne Windows Driver Ma Linux Real TTY driv VAIX 5 x, HP-UX 11 Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V CE (EN55022 Class	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Windows er (for 2.4.x, 2.6.x), )) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V A, EN55024), FCC P ÜV (EN60950-1)	64 KB √ t, DNS, SNMP V1/V2c DIUS, PAP, CHAP, TAC. isole, Windows Search 95, 98, ME, NT, 2000. Fixed TTY driver (for S Pair Connection, RFC2 ecure TCP Client, Secu- Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V	64 KB √ V(3, DDNS, HTTP, SN ACS+ Utility XP x86/x64, 2003 x8 CO Unix, SCO OpenS 2217, Terminal, Rever rre Pair Connection, S Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V	64 KB √ TP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unit se Telnet, Ethernet Mo iSH, Reverse SSH Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, 1 dem, Printer, PPP, Di dem, Printer, PPP, Di 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC	√ Pv6, IPv4, Turbo Ring, Ided CE 5.0/6.0, XP Err QNX 4.25, QNX 6, Sola sabled Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	√ Turbo Ring 2 hbedded), ris 10, FreeBSD, is 10, Fre
Offline Port Buffering SD Slot Software Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Notes Storage Temperature Operating Humidity Storage Temperature Operating Temperature Operating Humidity Storage Temperature Power Consumption Regulatory Approvals EMC Safety EMS	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S: Web Console, Telne Windows Driver Ma Linux Real TTY driv (NIX 5x, HP-UX 11) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V CE (EN55022 Class UL (UL60950-1), TI	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Windows er (for 2.4.x, 2.6.x), )) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V A, EN55024), FCC P ÜV (EN60950-1)	64 KB √ t, DNS, SNMP V1/V2c DIUS, PAP, CHAP, TAC. isole, Windows Search 95, 98, ME, NT, 2000. Fixed TTY driver (for S Pair Connection, RFC2 ecure TCP Client, Secu- Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V	64 KB √ V(3, DDNS, HTTP, SN ACS+ Utility XP x86/x64, 2003 x8 CO Unix, SCO OpenS 2217, Terminal, Rever rre Pair Connection, S Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V	64 KB √ TP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unit se Telnet, Ethernet Mo iSH, Reverse SSH Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, 1 dem, Printer, PPP, Di dem, Printer, PPP, Di 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC	√ Pv6, IPv4, Turbo Ring, Ided CE 5.0/6.0, XP Err QNX 4.25, QNX 6, Sola sabled Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V	√ Turbo Ring 2 hbedded), ris 10, FreeBSD, is 10, Fre
Serial Data Log Offline Port Buffering SD Slot Software Network Protocols Security Protocols Configuration Options Driver Support Management IP Routing Standard Operation Modes Secure Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Temperature Operating Temperature Power Requirements Input Voltage Power Consumption Regulatory Approvals EMC Safety EMS Reliability Buzzer, RTC, WDT MTBF	64 KB √ ICMP, IP, TCP, UDP, DES, 3DES, AES, S: Web Console, Telne Windows Driver Ma Linux Real TTY driv (NIX 5x, HP-UX 11) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Ser Secure Real COM, S 8 sessions per port Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V CE (EN55022 Class UL (UL60950-1), TI EN61000-4-2 (ESD EN61000-4-5 (Surg	64 KB √ DHCP, BOOTP, Telne SH, SSL, HTTPS, RA t Console, Serial Cor inager (for Windows er (for 2.4.x, 2.6.x), )) ver, TCP Client, UDP, Secure TCP Server, S Metal (IP30) 3600 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V A, EN55024), FCC P ÜV (EN60950-1) ), Level 2 Level 2 P), Level 2	64 KB √ t, DNS, SNMP V1/V2c, DIUS, PAP, CHAP, TAC, issole, Windows Search 95, 98, ME, NT, 2000, Fixed TTY driver (for S Pair Connection, RFC: ecure TCP Client, Secu- Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V art 15 Subpart B Class	64 KB √ V3, DDNS, HTTP, SM ACS+ Utility XP x86/x64, 2003 x8 C0 Unix, SCO OpenS 2217, Terminal, Revel re Pair Connection, S Metal (IP30) 3460 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V A	64 KB √ ITP, HTTPS, SSL, SSH, 6/x64, Vista x86/x64, 2 erver, UnixWare 7, Unix se Telnet, Ethernet Mo SH, Reverse SSH Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C 100 to 240 VAC 285 mA @ 100 V 190 mA @ 240 V	√ PPPoE, RFC2217, IF 2008 x86/x64, Embed xWare 2.1, SVR 4.2, 1 dem, Printer, PPP, Di Metal (IP30) 3580 g 440 x 195 x 44 0 to 55°C 5 to 95% RH -20 to 70°C ±48 VDC 293 mA @ 48 V	<ul> <li>√</li> <li>√</li> <li>6, IPv4, Turbo Ring, T</li></ul>	√ Turbo Ring 2 ibedded), iris 10, FreeBSD, iris 10, FreeBSD, iri

MOXA®

#### **CN2600 Terminal Servers**

	Dest	E.	No.	E	Burn and	The season of
	CN2610-8	CN2610-16	CN2610-8-2AC	CN2610-16-2AC	CN2650-8	CN2650-16
	0112010-0	0112010-10	0112010-0-240	0112010-10-2A0	0112030-0	0102030-10
LAN Interface 10/100BaseT(X) Ports	0					
Magnetic Isolation	2 ports (8-pin RJ45 con					
Protection	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV
Serial Interface						
RS-232 Ports	8	16	8	16		
RS-232/422/485 Ports					8	16
Connectors	8-pin RJ45	8-pin RJ45	8-pin RJ45	8-pin RJ45	8-pin RJ45	8-pin RJ45
Communication Parameters	Data Bits: 5, 6, 7, 8; Stop	p Bits: 1, 1.5, 2; Parity: Nor	ie, Even, Odd, Space, Mark			
low Control	RTS/CTS, DTR/DSR, XO	N/XOFF				
audrate	50 bps to 921.6 Kbps					
5 KV ESD Protection	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
KV isolation protection						
RS-485 Data Direction	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®
RS-232 Console Port	$\checkmark$		$\checkmark$	$\checkmark$		$\checkmark$
Advanced Features						
LCD Panel with 4 push	V	$\checkmark$	$\checkmark$	V	$\checkmark$	V
outtons						
Serial Data Log	128 KB	128 KB	128 KB	128 KB	128 KB	128 KB
Offline Port Buffering Software	128 KB	128 KB	128 KB	128 KB	128 KB	128 KB
Vetwork Protocols Security Protocols Configuration Options	RADIUS, https, SSH, PA	P, CHAP	MP V1/V2c/V3, HTTP, SMTP,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Driver Support Management IP Routing Standard Operation	Windows Driver Manage Linux Real TTY driver (fr AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II		, NT, 2000, XP x86/x64, 2003 Iriver (for SCO Unix, SCO Op	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, I		)/6.0, XP Embedded), QNX 6, Solaris 10, FreeBSD,
Driver Support Management P Routing Standard Operation Modes	Windows Driver Manage Linux Real TTY driver (fr AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d	, NT, 2000, XP x86/x64, 2003 Iriver (for SCO Unix, SCO Op			)/6.0, XP Embedded), QNX 6, Solaris 10, FreeBSD,
Driver Support Management P Routing Standard Operation Modes Terminal Sessions	Windows Driver Manage Linux Real TTY driver (fi AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server,	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d	, NT, 2000, XP x86/x64, 2003 Iriver (for SCO Unix, SCO Op			V6.0, XP Embedded), QNX 6, Solaris 10, FreeBSD,
Driver Support Management P Routing Standard Operation Aodes Perminal Sessions Physical Characteristics	Windows Driver Manage Linux Real TTY driver (fi AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server,	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d	, NT, 2000, XP x86/x64, 2003 Iriver (for SCO Unix, SCO Op			)/6.0, XP Embedded), QNX 6, Solaris 10, FreeBSD, Metal (IP30)
Iriver Support Anaagement P Routing tandard Operation Aodes derminal Sessions Physical Characteristics Iousing Veight	Windows Driver Manage Linux Real TTY driver (ft AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, 8 sessions per port Metal (IP30) 3525 g	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY of TCP Client, UDP, RFC2217, Metal (IP30) 3560 g	, NT, 2000, XP x <sup>3</sup> 6/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3760 g	P, DRDAS, Redundant COM, I Metal (IP30) 3980 g	Disabled Metal (IP30) 3740 g	Metal (IP30) 3790 g
Driver Support Aanagement P Routing Standard Operation Aodes Germinal Sessions Physical Characteristics Housing Veight Dimensions (mm)	Windows Driver Manage Linux Real TTY driver (fn AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, 8 sessions per port Metal (IP30)	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY o ICP Client, UDP, RFC2217, Metal (IP30)	, NT, 2000, XP x86/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30)	P, DRDAS, Redundant COM, I Metal (IP30)	Disabled Metal (1P30)	Metal (IP30)
Driver Support Aanagement P Routing Standard Operation Aodes Germinal Sessions Physical Characteristics Iousing Veight Dimensions (mm) Environmental Limits	Windows Driver Manage Linux Real TTY driver (ft AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, 8 sessions per port Metal (IP30) 3525 g 440 x 198 x 45	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY of FCP Client, UDP, RFC2217, Metal (IP30) 3560 g 440 x 198 x 45	, NT, 2000, XP x36/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3760 g 440 x 198 x 45	P, DRDAS, Redundant COM, I Metal (IP30) 3980 g 440 x 198 x 45	Disabled Metal (1P30) 3740 g 440 x 198 x 45	Metal (IP30) 3790 g 440 x 198 x 45
Driver Support Aanagement P Routing Standard Operation Aodes Ferminal Sessions Physical Characteristics Iousing Veight Dimensions (mm) invironmental Limits Operating Temperature	Windows Driver Manage Linux Real TTY driver (fr AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, 7 8 sessions per port Metal (IP30) 3525 g 440 x 198 x 45 0 to 55°C	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY of TCP Client, UDP, RFC2217, Metal (IP30) 3560 g 440 x 198 x 45 0 to 55°C	, NT, 2000, XP x56/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3760 g 440 x 198 x 45 0 to 55°C	P, DRDAS, Redundant COM, I Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C	Disabled Metal (IP30) 3740 g 440 x 198 x 45 0 to 55°C	Metal (IP30) 3790 g 440 x 198 x 45 0 to 55°C
Driver Support Anaagement P Routing Standard Operation Aodes Ferminal Sessions Physical Characteristics Housing Veight Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity	Windows Driver Manage Linux Real TTY driver (fr AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, <sup>7</sup> 8 sessions per port Metal (IP30) 3525 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY of TCP Client, UDP, RFC2217, Metal (IP30) 3560 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	, NT, 2000, XP x56/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3760 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	P, DRDAS, Redundant COM, I Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	Disabled Metal (IP30) 3740 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	Metal (IP30) 3790 g 440 x 198 x 45 0 to 55°C 5 to 95% RH
Driver Support Vanagement P Routing Standard Operation Vodes Ferminal Sessions Physical Characteristics Housing Veight Dimensions (mm) Environmental Limits Operating Temperature Operating Temperature Storage Temperature	Windows Driver Manage Linux Real TTY driver (fr AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, 7 8 sessions per port Metal (IP30) 3525 g 440 x 198 x 45 0 to 55°C	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY of TCP Client, UDP, RFC2217, Metal (IP30) 3560 g 440 x 198 x 45 0 to 55°C	, NT, 2000, XP x56/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3760 g 440 x 198 x 45 0 to 55°C	P, DRDAS, Redundant COM, I Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C	Disabled Metal (IP30) 3740 g 440 x 198 x 45 0 to 55°C	Metal (IP30) 3790 g 440 x 198 x 45 0 to 55°C
Driver Support Anagement P Routing Standard Operation Addes Terminal Sessions Physical Characteristics Housing Veight Dimensions (mm) strivironmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements	Windows Driver Manage Linux Real TTY driver (fn AIX 5.x, IP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, 7 8 sessions per port Metal (IP30) 3525 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY of TCP Client, UDP, RFC2217, Metal (IP30) 3560 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	, NT, 2000, XP x <sup>3</sup> 6/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3760 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	P, DRDAS, Redundant COM, I Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	Disabled Metal (IP30) 3740 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	Metal (IP30) 3790 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C
Oriver Support Anangement P Routing Standard Operation Addes Terminal Sessions Physical Characteristics Housing Veight Dimensions (mm) Storiornmental Limits Diperating Temperature Power Requirements Lumber of Inputs	Windows Driver Manage Linux Real TTY driver (fn AIX 5.x, HP-U X11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, 7 8 sessions per port Metal (IP30) 3525 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY of FCP Client, UDP, RFC2217, Metal (IP30) 3560 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1	, NT, 2000, XP x56/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3760 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	P, DRDAS, Redundant COM, I Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	Disabled Metal (IP30) 3740 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	Metal (IP30) 3790 g 440 x 198 x 45 0 to 55°C 5 to 95% RH
Driver Support Anaagement P Routing Valandard Operation Aodes Ferminal Sessions Physical Characteristics Rousing Veight Dimensions (mm) Environmental Limits Diperating Temperature Diperature Prover Requirements Rouber of Inputs Input Voltage	Windows Driver Manage Linux Real TTY driver (fn AIX 5.x, IP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, 7 8 sessions per port Metal (IP30) 3525 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY of TCP Client, UDP, RFC2217, Metal (IP30) 3560 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1 3 Hz	, NT, 2000, XP x <sup>3</sup> 6/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3760 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	P, DRDAS, Redundant COM, I Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	Disabled Metal (IP30) 3740 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	Metal (IP30) 3790 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C
Anagement P Routing tandard Operation Addes erminal Sessions Physical Characteristics lousing Veight Immensions (mm) nvironmental Limits Operating Temperature Operating Humidity torage Temperature Vower Requirements Inumber of Inputs nput Voltage Yower Consumption	Windows Driver Manage Linux Real TTY driver (fn AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, 7 8 sessions per port Metal (IP30) 3525 g 440 x 198 x 45 0 to 55°C 5 to 95% RH 0 to 55°C 5 to 95% RH 1 100 to 240 VAC, 47 to 6	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY of TCP Client, UDP, RFC2217, Metal (IP30) 3560 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1 3 Hz	, NT, 2000, XP x <sup>3</sup> 6/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3760 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	P, DRDAS, Redundant COM, I Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	Disabled Metal (IP30) 3740 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	Metal (IP30) 3790 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C
Driver Support Vanagement P Routing Standard Operation Wodes Errminal Sessions Physical Characteristics Housing Veight Dimensions (mm) Environmental Limits Diperating Temperature Diperating Temperature Departing Temperature Power Requirements Number of Inputs Number of Inputs Power Consumption Regulatory Approvals EMC	Windows Driver Manage Linux Real TTY driver (ft AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, 7 8 sessions per port Metal (IP30) 3525 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1 100 to 240 VAC, 47 to 6 235 mA @ 100 VAC, 143 CE (EN55022 Class A, E	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY of FCP Client, UDP, RFC2217, Metal (IP30) 3560 g 440 x 198 x 45 0 to 55°C 5 to 95% RH - 20 to 70°C 1 3 Hz 5 mA @ 240 V N55024), FCC Part 15 Subp	, NT, 2000, XP x <sup>3</sup> 6/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3760 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2	P, DRDAS, Redundant COM, I Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	Disabled Metal (IP30) 3740 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	Metal (IP30) 3790 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C
Driver Support Driver Support Management IP Routing Standard Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Number of Inputs Input Voltage Power Consumption Regulatory Approvals EMC Safety EMS	Windows Driver Manage Linux Real TTY driver (ft AIX 5.x, HP-UX 11i)           SNMP MIB-II           Static, RIP-I, RIP-II           Real COM, TCP Server, 7           8 sessions per port           Metal (IP30)           3525 g           440 x 198 x 45           0 to 55°C           5 to 95% RH           -20 to 70°C           1           100 to 240 VAC, 47 to 6           235 mA @ 100 VAC, 144           CE (EN55022 Class A, E           UL (UL60950), TÜV (EN)           EN61000-4-2 (ESD), Let           EN61000-4-2 (EFD), Let           EN61000-4-2 (EFD), Let	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY of FCP Client, UDP, RFC2217, Metal (IP30) 3560 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1 3 Hz 5 mA @ 240 V N55024), FCC Part 15 Subp 60950) rel 3 el 4	, NT, 2000, XP x <sup>3</sup> 6/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3760 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2	P, DRDAS, Redundant COM, I Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	Disabled Metal (IP30) 3740 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	Metal (IP30) 3790 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C
Driver Support Management P Routing Standard Operation Vodes Errminal Sessions Physical Characteristics Housing Neight Dimensions (mm) Environmental Limits Operating Temperature Operating Temperature Storage Temperature Power Requirements Number of Inputs Input Voltage Power Consumption Regulatory Approvals EMC Safety EMS	Windows Driver Manage Linux Real TTY driver (fn AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, 7 8 sessions per port Metal (IP30) 3525 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1 100 to 240 VAC, 47 to 6 235 mA @ 100 VAC, 47 5 (E (EN55022 Class A, E UL (UL60950), TÜV (EN	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY of FCP Client, UDP, RFC2217, Metal (IP30) 3560 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1 3 Hz 5 mA @ 240 V N55024), FCC Part 15 Subp 60950) rel 3 el 4	, NT, 2000, XP x <sup>3</sup> 6/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3760 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2	P, DRDAS, Redundant COM, I Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	Disabled Metal (IP30) 3740 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	Metal (IP30) 3790 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C
Driver Support Management P Routing Standard Operation Vodes Ferminal Sessions Physical Characteristics Housing Neight Dimensions (mm) Environmental Limits Diperating Temperature Operating Temperature Operating Humidity Storage Temperature Power Requirements Number of Inputs Input Voltage Power Consumption Regulatory Approvals EMC Safety EMS	Windows Driver Manage Linux Real TTY driver (fr AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, 7 8 sessions per port Metal (IP30) 3525 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1 100 to 240 VAC, 47 to 6 235 mA @ 100 VAC, 47 100 to 240 VAC, 47 to 6 235 mA @ 100 VAC, 47 5 (LISS), Lev EN61000-4-2 (ESD), Lev EN61000-4-4 (EFT), Lev EN61000-4-5 (Surge), L	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY of TCP Client, UDP, RFC2217, Metal (IP30) 3560 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1 3 Hz 5 mA @ 240 V N55024), FCC Part 15 Subp 60950) rel 3 el 4 evel 2	, NT, 2000, XP x <sup>2</sup> 6/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3760 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2 part B Class A	P, DRDAS, Redundant COM, I Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2	Disabled Metal (IP30) 3740 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1	Metal (IP30) 3790 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1
Driver Support Vanagement P Routing Standard Operation Vodes Errminal Sessions Physical Characteristics Housing Veight Dimensions (mm) Environmental Limits Dimensions (mm) Environmental Limits Environmental Limits Dimensions (mm) Environmental Limits Environmental Limits Dimensions (mm) Environmental Limits Environmental Limits Environm	Windows Driver Manage Linux Real TTY driver (ft AIX 5.x, HP-UX 11i)           SNMP MIB-II           Static, RIP-I, RIP-II           Real COM, TCP Server, 7           8 sessions per port           Metal (IP30)           3525 g           440 x 198 x 45           0 to 55°C           5 to 95% RH           -20 to 70°C           1           100 to 240 VAC, 47 to 6           235 mA @ 100 VAC, 144           CE (EN55022 Class A, E           UL (UL60950), TÜV (EN)           EN61000-4-2 (ESD), Let           EN61000-4-2 (EFD), Let           EN61000-4-2 (EFD), Let	er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY of FCP Client, UDP, RFC2217, Metal (IP30) 3560 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1 3 Hz 5 mA @ 240 V N55024), FCC Part 15 Subp 60950) rel 3 el 4	, NT, 2000, XP x <sup>3</sup> 6/x64, 2003 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3760 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2	P, DRDAS, Redundant COM, I Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	Disabled Metal (IP30) 3740 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	Metal (IP30) 3790 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C

#### **CN2600 Terminal Servers**

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	CN2650-8-2AC	CN2650-16-2AC	CN26501-8	CN2650I-16	CN2650I-8-2AC	CN2650I-16-2AC
LAN Interface			<u> </u>	,		
10/100BaseT(X) Ports	2 ports (8-pin RJ45 con	nector)				
Magnetic Isolation Protection	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV
Serial Interface						
RS-232 Ports						
RS-232/422/485 Ports	8	16	8	16	8	16
Connectors	8-pin RJ45	8-pin RJ45	DB9 male	DB9 male	DB9 male	DB9 male
Communication Parameters	Data Bits: 5, 6, 7, 8; Stop	o Bits: 1, 1.5, 2; Parity: Non	e, Even, Odd, Space, Mark			
Flow Control	RTS/CTS, DTR/DSR, XO	N/XOFF				
Baudrate	50 bps to 921.6 Kbps					
15 KV ESD Protection	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
2 KV isolation protection			$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
RS-485 Data Direction Control	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®
RS-232 Console Port	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Advanced Features						
LCD Panel with 4 push	$\checkmark$				$\checkmark$	
buttons Serial Data Log	128 KB	128 KB	128 KB	128 KB	128 KB	128 KB
Offline Port Buffering	128 KB	128 KB	128 KB	128 KB	128 KB	128 KB
Software						
Network Protocols		P, DUUTP, Teitiel, Divo, Sivi	MP V1/V2c/V3, HTTP, SMTP			
Security Protocols Configuration Options Driver Support Management IP Routing	Windows Driver Manage	nsole, Serial Console, Winder er (for Windows 95, 98, ME	NT, 2000, XP x86/x64, 200	3 x86/x64, Vista x86/x64, 200	38 x86/x64, Embedded CE 5.0 /are 2.1, SVR 4.2, QNX 4.25,	/6.0, XP Embedded), QNX 6, Solaris 10, FreeBSD,
Configuration Options Driver Support Management IP Routing Standard Operation	Web Console, Telnet Cor Windows Driver Manage Linux Real TTY driver (fo AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II	isole, Serial Console, Wind er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d	, NT, 2000, XP x86/x64, 200 river (for SCO Unix, SCO Op	3 x86/x64, Vista x86/x64, 200	/are 2.1, SVR 4.2, QNX 4.25,	//6.0, XP Embedded), QNX 6, Solaris 10, FreeBSD,
Configuration Options Driver Support Management IP Routing	Web Console, Telnet Cor Windows Driver Manage Linux Real TTY driver (fo AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, T	isole, Serial Console, Wind er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d	, NT, 2000, XP x86/x64, 200 river (for SCO Unix, SCO Op	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW	/are 2.1, SVR 4.2, QNX 4.25,	)/6.0, XP Embedded), QNX 6, Solaris 10, FreeBSD,
Configuration Options Driver Support Management IP Routing Standard Operation Modes	Web Console, Telnet Cor Windows Driver Manage Linux Real TTY driver (fo AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II	isole, Serial Console, Wind er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d	, NT, 2000, XP x86/x64, 200 river (for SCO Unix, SCO Op	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW	/are 2.1, SVR 4.2, QNX 4.25,	V6.0, XP Embedded), QNX 6, Solaris 10, FreeBSD,
Configuration Options Driver Support Management IP Routing Standard Operation Modes Terminal Sessions	Web Console, Telnet Cor Windows Driver Manage Linux Real TTY driver (fo AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, T	isole, Serial Console, Wind er (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d	, NT, 2000, XP x86/x64, 200 river (for SCO Unix, SCO Op	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW	/are 2.1, SVR 4.2, QNX 4.25,	V6.0, XP Embedded), QNX 6, Solaris 10, FreeBSD, Metal (IP30)
Configuration Options Driver Support Management IP Routing Standard Operation Modes Terminal Sessions Physical Characteristics Housing Weight	Web Console, Telnet Cor Windows Driver Manage Linux Real TTY driver (fr AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, T 8 sessions per port Metal (IP30) 3900 g	rsole, Serial Console, Wind rr (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d TCP Client, UDP, RFC2217, Metal (IP30) 3980 g	, NT, 2000, XP x <sup>3</sup> 6/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3666 g	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30) 3776 g	Are 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30) 3932 g	QNX 6, Solaris 10, FreeBSD, Metal (IP30) 4022 g
Configuration Options Driver Support Management IP Routing Standard Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm)	Web Console, Telnet Cor Windows Driver Manage Linux Real TTY driver (fr AIX 5.x, HP-UX 11) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, T 8 sessions per port Metal (IP30)	isole, Serial Console, Wind r (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d TCP Client, UDP, RFC2217, Metal (IP30)	, NT, 2000, XP x86/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30)	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30)	lare 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30)	QNX 6, Solaris 10, FreeBSD, Metal (IP30)
Configuration Options Driver Support Management IP Routing Standard Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits	Web Console, Telnet Cor Windows Driver Manage Linux Real TTY driver (fr AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, T 8 sessions per port Metal (IP30) 3900 g 440 x 198 x 45	rsole, Serial Console, Wind rr (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d TCP Client, UDP, RFC2217, Metal (IP30) 3980 g 440 x 198 x 45	NT, 2000, XP x <sup>3</sup> 6/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3666 g 440 x 198 x 45	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30) 3776 g 440 x 198 x 45	are 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30) 3932 g 440 x 198 x 45	QNX 6, Solaris 10, FreeBSD, Metal (IP30) 4022 g 440 x 198 x 45
Configuration Options         Driver Support         Management         IP Routing         Standard Operation         Modes         Terminal Sessions         Physical Characteristics         Housing         Weight         Dimensions (mm)         Environmental Limits         Operating Temperature	Web Console, Telnet Cor Windows Driver Manage Linux Real TTY driver (fr AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, T 8 sessions per port Metal (IP30) 3900 g 440 x 198 x 45 0 to 55°C	rsole, Serial Console, Wind rr (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d TCP Client, UDP, RFC2217, Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C	NT, 2000, XP x <sup>5</sup> 6/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3666 g 440 x 198 x 45 0 to 55°C	3 x86/x64, Vista x86/x64, 20( enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30) 3776 g 440 x 198 x 45 0 to 55°C	are 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30) 3932 g 440 x 198 x 45 0 to 55°C	QNX 6, Solaris 10, FreeBSD, Metal (IP30) 4022 g 440 x 198 x 45 0 to 55°C
Configuration Options Driver Support Management IP Routing Standard Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits	Web Console, Telnet Cor Windows Driver Manage Linux Real TTY driver (fr AIX 5.x, HP-UX 11i) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, T 8 sessions per port Metal (IP30) 3900 g 440 x 198 x 45	rsole, Serial Console, Wind rr (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d TCP Client, UDP, RFC2217, Metal (IP30) 3980 g 440 x 198 x 45	NT, 2000, XP x <sup>3</sup> 6/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3666 g 440 x 198 x 45	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30) 3776 g 440 x 198 x 45	are 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30) 3932 g 440 x 198 x 45	QNX 6, Solaris 10, FreeBSD, Metal (IP30) 4022 g 440 x 198 x 45
Configuration Options Driver Support Management IP Routing Standard Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity	Web Console, Telnet Cor Windows Driver Manage Linux Real TTY driver (fA AIX 5.x, HP-UX 111) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, T 8 sessions per port Metal (IP30) 3900 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	Isole, Serial Console, Wind Ir (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d TCP Client, UDP, RFC2217, Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	NT, 2000, XP x56/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3666 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30) 3776 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	are 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30) 3932 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	QNX 6, Solaris 10, FreeBSD, Metal (IP30) 4022 g 440 x 198 x 45 0 to 55°C 5 to 95% RH
Configuration Options Driver Support Management IP Routing Standard Operation Modes Terminal Sessions Physical Characteristics Housing Weight Dimensions (mm) Environmental Limits Operating Temperature Operating Temperature	Web Console, Telnet Cor Windows Driver Manage Linux Real TTY driver (fA AIX 5.x, HP-UX 111) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, T 8 sessions per port Metal (IP30) 3900 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	Isole, Serial Console, Wind Ir (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d TCP Client, UDP, RFC2217, Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	NT, 2000, XP x56/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3666 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30) 3776 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	are 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30) 3932 g 440 x 198 x 45 0 to 55°C 5 to 95% RH	QNX 6, Solaris 10, FreeBSD, Metal (IP30) 4022 g 440 x 198 x 45 0 to 55°C 5 to 95% RH
Configuration Options         Driver Support         Management         IP Routing         Standard Operation         Modes         Terminal Sessions         Physical Characteristics         Housing         Weight         Dimensions (mm)         Environmental Limits         Operating Temperature         Operating Humidity         Storage Temperature         Power Requirements         Number of Inputs         Input Voltage	Web Console, Telnet Cor         Windows Driver Manage         Linux Real TTY driver (fr         AlX 5.x, HP-UX 111)         SNMP MIB-II         Static, RIP-I, RIP-II         Real COM, TCP Server, T         8 sessions per port         Metal (IP30)         3900 g         440 x 198 x 45         0 to 55°C         5 to 95% RH         -20 to 70°C         2         100 to 240 VAC, 47 to 65	Isole, Serial Console, Wind Ir (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d TCP Client, UDP, RFC2217, 7 Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2 3 Hz	NT, 2000, XP x <sup>2</sup> 6/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3666 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30) 3776 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	are 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30) 3932 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	QNX 6, Solaris 10, FreeBSD, Metal (IP30) 4022 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C
Configuration Options         Driver Support         Management         IP Routing         Standard Operation         Modes         Terminal Sessions         Physical Characteristics         Housing         Weight         Dimensions (mm)         Environmental Limits         Operating Temperature         Operating Humidity         Storage Temperature         Power Requirements         Number of Inputs         Input Voltage         Power Consumption	Web Console, Telnet Cor         Windows Driver Manage         Linux Real TTY driver (fr         AlX 5.x, HP-UX 111)         SNMP MIB-II         Static, RIP-I, RIP-II         Real COM, TCP Server, T         8 sessions per port         Metal (IP30)         3900 g         440 x 198 x 45         0 to 55°C         5 to 95% RH         -20 to 70°C	Isole, Serial Console, Wind Ir (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d TCP Client, UDP, RFC2217, 7 Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2 3 Hz	NT, 2000, XP x <sup>2</sup> 6/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3666 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30) 3776 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	are 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30) 3932 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	QNX 6, Solaris 10, FreeBSD, Metal (IP30) 4022 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C
Configuration Options         Driver Support         Management         IP Routing         Standard Operation         Modes         Terminal Sessions         Physical Characteristics         Housing         Weight         Dimensions (mm)         Environmental Limits         Operating Temperature         Operating Temperature         Power Requirements         Number of Inputs         Input Voltage         Power Consumption         Regulatory Approvals	Web Console, Telnet Cor         Windows Driver Manage         Linux Real TTY driver (fr         AIX 5.x, HP-UX 111)         SNMP MIB-II         Static, RIP-I, RIP-II         Real COM, TCP Server, T         8 sessions per port         Metal (IP30)         3900 g         440 x 198 x 45         0 to 55°C         5 to 95% RH         -20 to 70°C         2         100 to 240 VAC, 47 to 63         235 mA @ 100 VAC, 145	Isole, Serial Console, Wind Ir (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d TCP Client, UDP, RFC2217, 7 Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2 3 Hz 5 mA @ 240 VAC	NT, 2000, XP x <sup>5</sup> 6/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3666 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30) 3776 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	are 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30) 3932 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	QNX 6, Solaris 10, FreeBSD, Metal (IP30) 4022 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C
Configuration Options         Driver Support         Management         IP Routing         Standard Operation Modes         Terminal Sessions         Physical Characteristics         Housing         Weight         Dimensions (mm)         Environmental Limits         Operating Temperature         Operating Humidity         Storage Temperature         Power Requirements         Number of Inputs         Input Voltage         Power Consumption         Regulatory Approvals         EMC	Web Console, Telnet Cor         Windows Driver Manage         Linux Real TTY driver (fA         AIX 5.x, HP-UX 111)         SNMP MIB-II         Static, RIP-I, RIP-II         Real COM, TCP Server, T         8 sessions per port         Metal (IP30)         3900 g         440 x 198 x 45         0 to 55°C         5 to 95% RH         -20 to 70°C         2         100 to 240 VAC, 47 to 66         235 mA @ 100 VAC, 145         CE (EN55022 Class A, EI	issole, Serial Console, Windows 95, 98, ME           ir (for Windows 95, 98, ME           or 2.4.x, 2.6.x), Fixed TTY d           TCP Client, UDP, RFC2217,           Metal (IP30)           3980 g           440 x 198 x 45           0 to 55°C           5 to 95% RH           -20 to 70°C           2           3 Hz           is mA @ 240 VAC           NS5024), FCC Part 15 Subp	NT, 2000, XP x <sup>5</sup> 6/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3666 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30) 3776 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	are 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30) 3932 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	QNX 6, Solaris 10, FreeBSD, Metal (IP30) 4022 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C
Configuration Options         Driver Support         Management         IP Routing         Standard Operation Modes         Terminal Sessions         Physical Characteristics         Housing         Weight         Dimensions (mm)         Environmental Limits         Operating Humidity         Storage Temperature         Power Requirements         Number of Inputs         Input Voltage         Power Consumption         Regulatory Approvals	Web Console, Telnet Cor         Windows Driver Manage         Linux Real TTY driver (fr         AlX 5.x, HP-UX 111)         SNMP MIB-II         Static, RIP-I, RIP-II         Real COM, TCP Server, T         8 sessions per port         Metal (IP30)         3900 g         440 x 198 x 45         0 to 55°C         5 to 95% RH         -20 to 70°C         2         100 to 240 VAC, 47 to 63         235 mA @ 100 VAC, 145         CE (EN55022 Class A, Ef         UL (UL60950), TÜV (EN)	Isole, Serial Console, Wind rr (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d TCP Client, UDP, RFC2217, Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2 3 Hz 5 mA @ 240 VAC N55024), FCC Part 15 Subp 60950)	NT, 2000, XP x <sup>5</sup> 6/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3666 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30) 3776 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	are 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30) 3932 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	QNX 6, Solaris 10, FreeBSD, Metal (IP30) 4022 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C
Configuration Options         Driver Support         Management         IP Routing         Standard Operation         Modes         Terminal Sessions         Physical Characteristics         Housing         Weight         Dimensions (mm)         Environmental Limits         Operating Temperature         Operating Temperature         Power Requirements         Number of Inputs         Input Voltage         Power Consumption         Regulatory Approvals         EMC         Safety         EMS	Web Console, Telnet Cor         Windows Driver Manage         Linux Real TTY driver (fA         AIX 5.x, HP-UX 111)         SNMP MIB-II         Static, RIP-I, RIP-II         Real COM, TCP Server, T         8 sessions per port         Metal (IP30)         3900 g         440 x 198 x 45         0 to 55°C         5 to 95% RH         -20 to 70°C         2         100 to 240 VAC, 47 to 66         235 mA @ 100 VAC, 145         CE (EN55022 Class A, EI	Isole, Serial Console, Wind rr (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d TCP Client, UDP, RFC2217, Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2 3 Hz 5 mA @ 240 VAC N55024), FCC Part 15 Subp 60950)	NT, 2000, XP x <sup>5</sup> 6/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3666 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30) 3776 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	are 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30) 3932 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	QNX 6, Solaris 10, FreeBSD, Metal (IP30) 4022 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C
Configuration Options         Driver Support         Management         IP Routing         Standard Operation         Modes         Terminal Sessions         Physical Characteristics         Housing         Weight         Dimensions (mm)         Environmental Limits         Operating Humidity         Storage Temperature         Operating Humidity         Storage Temperature         Power Requirements         Number of Inputs         Input Voltage         Power Consumption         Regulatory Approvals         EMC         Safety         EMS         Relability	Web Console, Telnet Cor Windows Driver Manage Linux Real TTY driver (fr AIX 5.x, HP-UX 111) SNMP MIB-II Static, RIP-I, RIP-II Real COM, TCP Server, T 8 sessions per port Metal (IP30) 3900 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2 100 to 240 VAC, 47 to 63 235 mA @ 100 VAC, 145 CE (EN55022 Class A, EI UL (UL60950), TÜV (EN EN61000-4-2 (ESD), Lev EN61000-4-4 (EFT), Lev EN61000-4-5 (Surge), L	Isole, Serial Console, Wind Ir (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d CCP Client, UDP, RFC2217, Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2 3 Hz 6 mA @ 240 VAC N55024), FCC Part 15 Subp 60950) rel 3 el 4 evel 2	NT, 2000, XP x66/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3666 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1 art B Class A	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30) 3776 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1	lare 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30) 3932 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2	QNX 6, Solaris 10, FreeBSD, Metal (IP30) 4022 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2
Configuration Options         Driver Support         Management         IP Routing         Standard Operation         Modes         Terminal Sessions         Physical Characteristics         Housing         Weight         Dimensions (mm)         Environmental Limits         Operating Temperature         Operating Temperature         Power Requirements         Number of Inputs         Input Voltage         Power Consumption         Regulatory Approvals         EMC         Safety         EMS	Web Console, Telnet Cor         Windows Driver Manage         Linux Real TTY driver (fr         AlX 5.x, HP-UX 111)         SNMP MIB-II         Static, RIP-I, RIP-II         Real COM, TCP Server, T         8 sessions per port         Metal (IP30)         3900 g         440 x 198 x 45         0 to 55°C         5 to 95% RH         -20 to 70°C         2         100 to 240 VAC, 47 to 63         235 mA @ 100 VAC, 145         CE (EN55022 Class A, Ef         UL (UL60950), TÜV (EN)	Isole, Serial Console, Wind rr (for Windows 95, 98, ME or 2.4.x, 2.6.x), Fixed TTY d TCP Client, UDP, RFC2217, Metal (IP30) 3980 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 2 3 Hz 5 mA @ 240 VAC N55024), FCC Part 15 Subp 60950)	NT, 2000, XP x <sup>5</sup> 6/x64, 200 river (for SCO Unix, SCO Op Terminal, Reverse Telnet, PP Metal (IP30) 3666 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C 1	3 x86/x64, Vista x86/x64, 200 enServer, UnixWare 7, UnixW P, DRDAS, Redundant COM, Metal (IP30) 3776 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	are 2.1, SVR 4.2, QNX 4.25, Disabled Metal (IP30) 3932 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C	QNX 6, Solaris 10, FreeBSD, Metal (IP30) 4022 g 440 x 198 x 45 0 to 55°C 5 to 95% RH -20 to 70°C

## **Combo Switch / Serial Device Server**



#### NPort S8000: Ethernet Switch Specifications

Ethernet Interface	
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100Base FX IEEE 802.3x for Flow Control IEEE 802.1D for Spanning Tree Protocol IEEE 802.1v for Agaid STP IEEE 802.10 for VLAN Tagging IEEE 802.1p for Class of Service IEEE 802.1x for Authentication IEEE 802.3ad for Port Trunk with LACP
Network Protocols	ICMP, IP, TCP, UDP, ARP, Telnet, DNS, HTTP, SMTP, SNTP, IGMPv1/v2 device, GVRP, SNMPv1/v2c/v3, DHCP Server/ Client, DHCP Option 82, BootP, TFTP, SNTP, SMTP, RARP, GMRP, LACP, RMON
MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Flow Control	IEEE 802.3x flow control, back pressure flow control interface
Optical Fiber Interface	
Туре	Multi-mode
Distance	0 to 2 km, 1310 nm (62.5/125 µm, 500 MHz*km)
Min. TX Output	-20 dBm
Max. TX Output	-14 dBm
Sensitivity	-34 to -30 dBm
Switch Properties	
Priority Queues	4
Max. Number of Available VLANs	64
VLAN ID Range	VID 1 to 4094
IGMP Groups	256
Switch Interface	
RJ45 Ports	10/100BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection
DIP Switches	Turbo Ring, Master, Coupler, Reserve
Alarm Contact	2 relay outputs with current carrying capacity of 1A @ 24 VDC

#### NPort S8000: General Specifications

	•
Port Summary	
Serial Ports	4 RS-232/422/485 ports
Ethernet Switch Ports	3 RJ45 copper ports, 2 multi-mode fiber ports
Console Ports	1 (8-pin RJ45 connector)
LED Indicators	PWR1, PWR2, READY, MASTER, COUPLER, LINK4, LINK5
Physical Characteristics	
Housing	Metal
Weight	995 g
Dimensions	73.1 x 134 x 105 mm
Environmental Limits	
Operating Temperature	0 to 60°C
Operating Humidity	5 to 95% RH
Storage Temperature	-40 to 85°C
Power Requirements	
Input Voltage	12 to 48 VDC
Power Consumption	935mA @ 12 V, 470 mA @ 24 V
Regulatory Approvals	
EMC	CE (EN55022 Class A, EN55024), FCC Part 15 Subpart B Class A
Safety	UL-508, UL (UL60950-1), LVD (EN60950-1)
EMS	IEC 61000-4-2, Level 4 (ESD) IEC 61000-4-4, Level 4 (EFT) IEC 61000-4-5 for serial port, Level 1 (Surge) IEC 61000-4-5 for Dever Line, Level 3 (Surge) IEC 61000-4-5 for LAN port, Level 2 (Surge)
Reliability	
Buzzer, RTC, WDT	$\checkmark$
Warranty	5 years (see www.moxa.com/warranty)

#### NPort S8000: Device Server Specifications

Serial Interface	
Number of Ports	4
Serial Standards	RS-232/422/485
Connectors	DB9 male
Serial Line Protection	15 KV ESD protection for all signals 2 KV isolation protection
RS-485 Data Direction Control	ADDC® (automatic data direction control)
Pull High/Low Resistor for RS-485	1 ΚΩ, 150 ΚΩ
Terminator for RS-485	55 Ω, 120 Ω
Console Port	Dedicated RS-232 console port (8-pin RJ45)
Serial Communication Para	ameters
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None, Even, Odd, Space, Mark
Flow Control	RTS/CTS and XON/XOFF
Baudrate	50 bps to 921.6 Kbps
Serial Signals	
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND
Software	
Configuration Options	Web Console, Telnet Console, Serial Console, Windows Search Utility
Windows Real COM Drivers	Windows 95, 98, ME, NT, 2000, XP x86/x64, 2003 x86/x64, Vista x86/x64, 2008 x86/x64, Embedded CE 5.0/6.0, XP Embedded
Fixed TTY Drivers	SCO Unix, SCO OpenServer, UnixWare 7, UnixWare 2.1, SVR 4.2, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i
Linux Real TTY Drivers	2.4.x, 2.6.x
Operation Modes	Real COM, TCP Server, TCP Client, UDP, RFC2217
Management	SNMP MIB-II
IP Routing	Static, RIP-I, RIP-II
Reliability	
Alert Tools	Built-in buzzer and RTC (real-time clock)
Automatic Reboot Trigger	Built-in WDT (watchdog timer)









	NPort® 5110 NPort® 5110-T	NPort® 5130	NPort® 5150	NPort® DE-211	NPort® DE-311	NPort® 5210 NPort® 5210-T	NPort® 5230 NPort® 5230-T
Ethernet Interface		·	·				
10BaseT Ports				1			
10/100BaseT(X) Ports	1	1	1		1	1	1
100BaseFX							
Connector	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45
Magnetic Isolation Protection	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV
Serial Interface							
RS-232 Ports	1					2	1
RS-232/422 Ports		1					1
RS-232/422/485 Ports			1	1	1		
Connector	DB9-M	DB9-M	DB9-M	DB25-F	DB9-F	RJ45	TB
15 KV ESD Protection	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
2 KV Isolation Protection							
Serial Communication Parameters	Data Bits: 5, 6, 7, 8; Stop	p Bits: 1, 1.5, 2; Parity	None, Even, Odd, Space	, Mark			
Flow Control	RTS/CTS, XON/XOFF						
Baudrate	110 bps to 230.4 Kbps	50 bps to 921.6 Kbp	IS	50 bps to 230.4 Kbp	)S	110 bps to 230.4 Kb	ops
Software							
Network Protocols	ICMP, IP, TCP, UDP, DHC SMTP	CP, BOOTP, Telnet, DNS	, SNMP V1/V2c, HTTP,	DHCP, BOOTP, Telne ARP	et, TCP, UDP, IP, ICMP,	ICMP, IP, TCP, UDP, DNS_SNMP_V1/V2c	DHCP, BOOTP, Telnet , HTTP, SMTP, SNTP
Web Console	√	$\checkmark$	$\checkmark$			√	√
Serial Console	$\checkmark$			$\checkmark$		1	1
Telnet Console	1	$\checkmark$	V	V	V		V.
Nindows Utility	V	V	1	V.	V	1	J.
Windows Real COM Drivers				64, 2008 x86/x64, Embe	dded CE 5.0/6.0, XP Embe	dded	
Fixed TTY Drivers Linux Real TTY Drivers	SCO Unix, SCO OpenSer Linux 2.4.x, 2.6.x	rver, UnixWare 7, Unix	Ware 2.1, SVR 4.2, QNX	4.25, QNX 6, Solaris 10,	FreeBSD, AIX 5.x, HP-UX	11i	
Onsite Configuration							
Mini Screen with Push Buttons							
Physical Characteristics							
Housing	Motol	Motal	Motol	Motal (IP20)	Motal (IR20)	Motol (ID20)	Motal (ID20)
-	Metal	Metal	Metal	Metal (IP30)	Metal (IP30)	Metal (IP30)	Metal (IP30)
Weight	340 g	Metal 340 g	Metal 340 g	480 g	480 g	Metal (IP30) 340 g	Metal (IP30) 360 g
Neight Dimensions					480 g	· · · ·	
Weight Dimensions Environmental Limits	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to	340 g		480 g 67 x 100.4 x 22 mm	480 g	340 g	360 g
Weight Dimensions Environmental Limits Operating Temparture	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C	340 g 0 to 55°C	340 g	480 g 67 x 100.4 x 22 mm 0 to 55°C	480 g	340 g 0 to 55°C or -40 to 3	360 g 75°C
Weight Dimensions Environmental Limits Operating Temparture Operating Humidity	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C 5 to 95% RH	340 g 0 to 55°C 5 to 95% RH	340 g 5 to 95% RH	480 g 67 x 100.4 x 22 mm 0 to 55°C 5 to 95% RH	480 g 5 to 95% RH	340 g 0 to 55°C or -40 to 3 5 to 95% RH	360 g 75°C 5 to 95% RH
Weight Dimensions Environmental Limits Operating Temparture Operating Humidity Storage Temperature	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C	340 g 0 to 55°C	340 g	480 g 67 x 100.4 x 22 mm 0 to 55°C	480 g	340 g 0 to 55°C or -40 to 3	360 g 75°C
Neight Dimensions Environmental Limits Operating Temparture Operating Humidity Storage Temperature Power Requirements	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C 5 to 95% RH -20 to 85°C	340 g 0 to 55°C 5 to 95% RH -20 to 85°C	340 g 5 to 95% RH -20 to 85°C	480 g 67 x 100.4 x 22 mm 0 to 55°C 5 to 95% RH -20 to 85°C	480 g 5 to 95% RH -20 to 85°C	340 g 0 to 55°C or -40 to 5 to 95% RH -40 to 85°C	360 g 75°C 5 to 95% RH -40 to 85°C
Neight Dimensions Environmental Limits Operating Temparture Operating Humidity Storage Temperature Power Requirements nput Voltage	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C 5 to 95% RH	340 g 0 to 55°C 5 to 95% RH	340 g 5 to 95% RH	480 g 67 x 100.4 x 22 mm 0 to 55°C 5 to 95% RH	480 g 5 to 95% RH	340 g 0 to 55°C or -40 to 3 5 to 95% RH	360 g 75°C 5 to 95% RH
Weight Dimensions Environmental Limits Operating Temparture Operating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption @ 12/24/48 VDC	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C 5 to 95% RH -20 to 85°C	340 g 0 to 55°C 5 to 95% RH -20 to 85°C	340 g 5 to 95% RH -20 to 85°C	480 g 67 x 100.4 x 22 mm 0 to 55°C 5 to 95% RH -20 to 85°C	480 g 5 to 95% RH -20 to 85°C	340 g 0 to 55°C or -40 to 5 to 95% RH -40 to 85°C	360 g 75°C 5 to 95% RH -40 to 85°C
Weight Dimensions Environmental Limits Operating Temparture Operating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption @ 12/24/48 VDC Power Consumption @	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C 5 to 95% RH -20 to 85°C 12 to 48 VDC	340 g 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC	340 g 5 to 95% RH -20 to 85°C 12 to 48 VDC	480 g 67 x 100.4 x 22 mm 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 30 VDC	480 g 5 to 95% RH -20 to 85°C 9 to 30 VDC	340 g 0 to 55°C or -40 to 3 5 to 95% RH -40 to 85°C 12 to 48 VDC	360 g 75°C 5 to 95% RH -40 to 85°C 12 to 48 VDC
Veight Dimensions Environmental Limits Operating Temparture Derating Humidity Storage Temperature Power Requirements nput Voltage Power Consumption @ 12/24/48 VDC Power Consumption @ 100/240 VAC	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 128.7/72/ mA	340 g 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA	340 g 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA	480 g 67 x 100.4 x 22 mm 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 30 VDC 180/100/ mA	480 g 5 to 95% RH -20 to 85°C 9 to 30 VDC /150/ mA	340 g 0 to 55°C or -40 to 5 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA	360 g 75°C 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA
Weight Dimensions Environmental Limits Operating Temparture Operating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption @ 12/24/48 VDC Power Consumption @ 100/240 VAC Regulatory Approvals	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 128.7/72/ mA	340 g 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA 	340 g 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA 	480 g 67 x 100.4 x 22 mm 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 30 VDC 180/100/ mA 	480 g 5 to 95% RH -20 to 85°C 9 to 30 VDC /150/ mA  B, EN55024 Class B),	340 g 0 to 55°C or -40 to 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA 	360 g 75°C 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA  N55024 Class A), FC
Weight Dimensions Environmental Limits Operating Temparture Operating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption @ 12/2/4/8 VDC Power Consumption @ 100/240 VAC Regulatory Approvals EMC	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 128.7/72/ mA 	340 g 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA  N55024), FCC Part 15	340 g 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA 	480 g 67 x 100.4 x 22 mm 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 30 VDC 180/100/ mA  CE (EN55022 Class	480 g 5 to 95% RH -20 to 85°C 9 to 30 VDC /150/ mA  B, EN55024 Class B), t B	340 g 0 to 55°C or -40 to 7 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA  CE (EN55022 and El	360 g 75°C 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA  N55024 Class A), FCC lass A
Weight Dimensions Environmental Limits Operating Temparture Operating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption @ 12/24/48 VDC Power Consumption @ 100/240 VAC Regulatory Approvals EMC Safety	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 128.7/72/ mA  CE (EN55022 Class A, E	340 g 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA  N55024), FCC Part 15	340 g 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA 	480 g 67 x 100.4 x 22 mm 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 30 VDC 180/100/ mA  CE (EN55022 Class FCC Part 15 Subpar	480 g 5 to 95% RH -20 to 85°C 9 to 30 VDC /150/ mA  B, EN55024 Class B), t B	340 g 0 to 55°C or -40 to 1 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA  CE (EN55022 and El Part 15 Subpart B C	360 g 75°C 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA  N55024 Class A), FCI lass A
Weight Dimensions Environmental Limits Operating Temparture Operating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption @ 120/240 VAC Power Consumption @ 100/240 VAC Regulatory Approvals EMC Safety Marine	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 128.7/72/ mA  CE (EN55022 Class A, E UL (UL60950-1), TÜV (E	340 g 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA  N55024), FCC Part 15 EN60950-1)	340 g 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA  Subpart B Class A	480 g 67 x 100.4 x 22 mm 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 30 VDC 180/100/ mA  CE (EN55022 Class FCC Part 15 Subpar UL (UL60950), TÜV	480 g 5 to 95% RH -20 to 85°C 9 to 30 VDC /150/ mA  B, EN55024 Class B), t t B (EN60601-1-2 Class	340 g 0 to 55°C or -40 to 1 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA  CE (EN55022 and El Part 15 Subpart B C UL (UL60950-1), TL	360 g 75°C 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA  N55024 Class A), FCC lass A
Weight Dimensions Environmental Limits Operating Temparture Operating Humidity Storage Temperature Power Consumption @ 120/240 VAC Power Consumption @ 120/240 VAC Regulatory Approvals EMC Safety Marine Medical	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 128.7/72/ mA  CE (EN55022 Class A, E UL (UL60950-1), TŪV (E 	340 g 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA  N55024), FCC Part 15 N60950-1) 	340 g 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA Subpart B Class A	480 g 67 x 100.4 x 22 mm 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 30 VDC 180/100/ mA  CE (EN55022 Class FCC Part 15 Subpar UL (UL60950), TÜV 	480 g 5 to 95% RH -20 to 85°C 9 to 30 VDC /150/ mA  B, EN55024 Class B), t t B (EN60950) 	340 g 0 to 55°C or -40 to 5 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA  CE (EN55022 and El Part 15 Subpart B C UL (UL60950-1), TU DNV	360 g 75°C 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA  N55024 Class A), FCC lass A IV (EN60950-1)
Veight Dimensions Environmental Limits Operating Temparture Operating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption @ 12/2/4/8 VDC Power Consumption @ 100/240 VAC Regulatory Approvals EMC Safety Marine Vedical Reliability	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 128.7/72/ mA  CE (EN55022 Class A, E UL (UL60950-1), TÜV (E  	340 g 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA  N55024), FCC Part 15 EN60950-1)  	340 g 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA Subpart B Class A	480 g 67 x 100.4 x 22 mm 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 30 VDC 180/100/ mA  CE (EN55022 Class FCC Part 15 Subpar UL (UL60950), TÜV 	480 g 5 to 95% RH -20 to 85°C 9 to 30 VDC /150/ mA  B, EN55024 Class B), t t B (EN60601-1-2 Class	340 g 0 to 55°C or -40 to 1 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA  CE (EN55022 and El Part 15 Subpart B C UL (UL60950-1), TÚ DNV 	360 g 75°C 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA  N55024 Class A), FCC lass A IV (EN60950-1) 
Housing Weight Dimensions Environmental Limits Operating Temparture Operating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption @ 12/24/48 VDC Power Consumption @ 10/240 VAC Regulatory Approvals EMC Safety Marine Medical Reliability Buzzer, RTC, WDT MTBF	340 g 52 x 80 x 22 mm 0 to 55°C or -40 to 75°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 128.7/72/ mA  CE (EN55022 Class A, E UL (UL60950-1), TŪV (E 	340 g 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA  N55024), FCC Part 15 N60950-1) 	340 g 5 to 95% RH -20 to 85°C 12 to 48 VDC 200/106/ mA Subpart B Class A	480 g 67 x 100.4 x 22 mm 0 to 55°C 5 to 95% RH -20 to 85°C 12 to 30 VDC 180/100/ mA  CE (EN55022 Class FCC Part 15 Subpar UL (UL60950), TÜV  	480 g 5 to 95% RH -20 to 85°C 9 to 30 VDC /150/ mA  B, EN55024 Class B), t t B (EN60950)  EN60601-1-2 Class B, EN55011	340 g 0 to 55°C or -40 to 5 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA  CE (EN55022 and El Part 15 Subpart B C UL (UL60950-1), TU DNV	360 g 75°C 5 to 95% RH -40 to 85°C 12 to 48 VDC 325/190/ mA  N55024 Class A), FCC lass A IV (EN60950-1)

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	NPort® 5232 NPort® 5232-T	NPort® 52321 NPort® 52321-T	NPort® 5410	NPort® 5430	NPort® 5430I	NPort® 5450	NPort® 5450I
Ethernet Interface		1	<u> </u>		ļ	<u> </u>	1
10BaseT Ports							
10/100BaseT(X) Ports	1	1	1	1	1	1	1
100BaseFX							
Connector	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45
Magnetic Isolation Protection	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV
Serial Interface							
RS-232 Ports			4				
RS-232/422 Ports	2	2		4	4		
RS-232/422/485 Ports						4	4
Connector	TB	TB	DB9-M	TB	TB	DB9-M	DB9-M
15 KV ESD Protection	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
2 KV Isolation Protection		$\checkmark$			$\checkmark$		$\checkmark$
Serial Communication	Data Bits: 5, 6, 7, 8; S	top Bits: 1, 1.5, 2; Parity:	None, Even, Odd, Spac	e. Mark			
Parameters Flow Control		RTS/CTS, XON/XOFF	RTS/CTS, XON/XOFF		RTS/CTS, XON/XOFF	RTS/CTS, XON/XOFF	RTS/CTS, XON/XC
Baudrate	110 bps to 230.4 Kbps		50 bps to 921.6 Kbps		1110/010, 2010/2011	1110/010, X010/X011	1113/013, 2010/20
Software	110 500 10 200. 1135	5	00 500 10 021.0 150	5			
Network Protocols	ICMP, IP, TCP, UDP, DI DNS, SNMP V1/V2c, H	HCP, BOOTP, Telnet, HTTP, SMTP, SNTP	ICMP, IP, TCP, UDP, I	OHCP, BOOTP, Telnet, DNS	, SNMP V1/V2c, HTTP, SI	MTP, SNTP, Rtelnet, ARP	
Web Console	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
Serial Console							
Telnet Console	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows Utility	V	V	V	1	V	V	V
Windows Real COM	Windows 95, 98, ME.	NT. 2000, XP x86/x64, 20	)03 x86/x64. Vista x86/x	x64, 2008 x86/x64, Embed	ded CE 5.0/6.0. XP Embe	edded	
Drivers Fixed TTY Drivers				4.25, QNX 6, Solaris 10, F			
Linux Real TTY Drivers	Linux 2.4.x, 2.6.x		Vale 2.1, 3 VII 4.2, QIVA	4.25, 0117 0, 5010115 10, 1	100000, AIX 3.X, 111 -0X	111	
Onsite Configuration							
Mini Screen with Push Buttons			$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Physical Characteristics							
Housing	Metal (IP30)	Metal (IP30)	Metal (IP30)	Metal (IP30)	Metal (IP30)	Metal (IP30)	Metal (IP30)
Weight	360 g	380 g	740 g				
Dimensions	67 x 100.4 x 22 mm	67 x 100.4 x 35 mm	158 x 103 x 33 mm				
Environmental Limits							
Operating Temparture	0 to 55°C or -40 to 75	°C	0 to 55°C (32 to 131	°F)			
Operating Humidity	5 to 95% RH		5 to 95% RH				
Storage Temperature	-40 to 85°C		-20 to 70°C				
Power Requirements	10 to 40 \/D0	10 to 40 \/D0	10 to 40 100	10 to 49 VD0	10 to 49 \/D0	10 to 49 \/D0	10 to 40 VD0
Input Voltage Power Consumption @	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC
12/24/48 VDC	280/150/ mA	509.4/200/ mA	350/190/ mA	320/175/ mA	530/280/ mA	350/190/ mA	554/294/ mA
Power Consumption @ 100/240 VAC							
Regulatory Approvals							
EMC	CE (EN55022 and EN5	55024 Class A), FCC Part	15 Subpart B Class A				
Safety	UL (UL60950-1), TÜV	(EN60950-1)					
Marine	DNV						
Medical			EN60601-1-2 Class E	3, EN55011			
Reliability							
Buzzer, RTC, WDT	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
MTBF	102344 hrs	87083 hrs	206903 hrs	206903 hrs	206903 hrs	206903 hrs	206903 hrs
Warranty	5 years (see www.mo:	xa.com/warranty)					



	NPort® 5610-8	NPort®	NPort® 5630-8	NPort® 5650-8	NPort®	NPort®	NPort® 5610-16	NPort®
		5610-8-48V			5650-8-M-SC	5650-8-S-SC		5610-16-48V
Ethernet Interface								
10BaseT Ports		1	1				1	
10/100BaseT(X) Ports 100BaseFX Ports	1			1				1
Connector	 RJ45			 RJ45	1 (multi-mode) SC	1 (single-mode) SC	 RJ45	 RJ45
Magnetic Isolation		RJ45	RJ45		50	30	NJ40	
Protection	1.5 KV	1.5 KV	1.5 KV	1.5 KV			1.5 KV	1.5 KV
Serial Interface								
RS-232 Ports	8	8					16	16
RS-232/422 Ports			8					
RS-232/422/485 Ports				8	8	8		
Connector	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45
15 KV ESD Protection	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
2 KV Isolation Protection								
Serial Communication Parameters	Data Bits: 5, 6, 7, 8	; Stop Bits: 1, 1.5, 2;	Parity: None, Even, Od	dd, Space, Mark				
low Control	RTS/CTS, XON/XOI	FF						
Baudrate	50 bps to 921.6 Kb	ops						
Software								
Network Protocols	ICMP, IP, TCP, UDP	, DHCP, BOOTP, Telne	t, DNS, SNMP V1/V2c	, HTTP, SMTP, SNTP, J	ARP, PPP, SLIP, RTeln	et, RFC2217		
Neb Console	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Serial Console								
Felnet Console				$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
Vindows Utility	V	V V	V	V	V	V	V	V
Vindows Real COM							v	v
Drivers	Windows 95, 98, N	/IE, NT, 2000, XP x86/	x64. 2003 x86/x64. Vi	ista x86/x64_2008 x86	6/x64. Embedded CE 5	0/6 0 XP Embedded		
				10ta x00/x01, 2000 x00				
	SCO Unix, SCO Op	enServer, UnixWare 7		4.2, QNX 4.25, QNX 6,				
Linux Real TTY Drivers	SCO Unix, SCO Op Linux 2.4.x, 2.6.x	enServer, UnixWare 7						
Fixed TTY Drivers Linux Real TTY Drivers Onsite Configuration		enServer, UnixWare 7						
inux Real TTY Drivers Onsite Configuration Aini Screen with Push		enServer, UnixWare 7 √					V	V
inux Real TTY Drivers Onsite Configuration Mini Screen with Push Buttons	Linux 2.4.x, 2.6.x		, UnixWare 2.1, SVR 4	4.2, QNX 4.25, QNX 6,	Solaris 10, FreeBSD,	AIX 5.x, HP-UX 11i	V	V
inux Real TTY Drivers Onsite Configuration Vini Screen with Push Buttons Physical Characteristics	Linux 2.4.x, 2.6.x	$\checkmark$	, UnixWare 2.1, SVR 4 √	4.2, QNX 4.25, QNX 6, √	Solaris 10, FreeBSD, √	AIX 5.x, HP-UX 11i √		
Linux Real TTY Drivers Onsite Configuration Wini Screen with Push Buttons Physical Characteristics Housing	Linux 2.4.x, 2.6.x √ Metal (IP30)	√ Metal (IP30)	, UnixWare 2.1, SVR 4 √ Metal (IP30)	4.2, QNX 4.25, QNX 6, √ Metal (IP30)	Solaris 10, FreeBSD, √ Metal (IP30)	AIX 5.x, HP-UX 11i √ Metal (IP30)	Metal (IP30)	Metal (IP30)
Linux Real TTY Drivers Onsite Configuration Mini Screen with Push Buttons Physical Characteristics Housing Weight	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g	√ Metal (IP30) 3160 g	, UnixWare 2.1, SVR 4 √	4.2, QNX 4.25, QNX 6, √	Solaris 10, FreeBSD, √	AIX 5.x, HP-UX 11i √		
inux Real TTY Drivers Disite Configuration Aini Screen with Push Buttons Physical Characteristics Housing Veight Dimensions	Linux 2.4.x, 2.6.x √ Metal (IP30)	√ Metal (IP30) 3160 g	, UnixWare 2.1, SVR 4 √ Metal (IP30)	4.2, QNX 4.25, QNX 6, √ Metal (IP30)	Solaris 10, FreeBSD, √ Metal (IP30)	AIX 5.x, HP-UX 11i √ Metal (IP30)	Metal (IP30)	Metal (IP30)
inux Real TTY Drivers Onsite Configuration Aini Screen with Push Buttons Physical Characteristics Housing Veight Dimensions Environmental Limits	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mn	√ Metal (IP30) 3160 g	, UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g	Metal (IP30) 3420 g	Metal (IP30) 3260 g
Linux Real TTY Drivers Onsite Configuration Mini Screen with Push Vuttons Physical Characteristics Housing Veight Dimensions Environmental Limits Operating Temparture	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mm 0 to 55°C	√ Metal (IP30) 3160 g n 0 to 55°C	, UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C	Metal (IP30) 3420 g 0 to 55°C	Metal (IP30) 3260 g 0 to 55°C
inux Real TTY Drivers Onsite Configuration Mini Screen with Push Suttons Physical Characteristics Housing Veight Dimensions Environmental Limits Diperating Temparture Diperating Humidity	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mm 0 to 55°C 5 to 95% RH	√ Metal (IP30) 3160 g 1 0 to 55°C 5 to 95% RH	, UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C 5 to 95% RH	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH	Metal (IP30) 3420 g 0 to 55°C 5 to 95% RH	Metal (IP30) 3260 g 0 to 55°C 5 to 95% RH
Linux Real TTY Drivers Onsite Configuration Unit Screen with Push Suttons Physical Characteristics Housing Weight Dimensions Environmental Limits Diperating Temparture Diperating Humidity	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mm 0 to 55°C	√ Metal (IP30) 3160 g n 0 to 55°C	, UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C	Metal (IP30) 3420 g 0 to 55°C	Metal (IP30) 3260 g 0 to 55°C
Linux Real TTY Drivers Onsite Configuration Unit Screen with Push Suttons Physical Characteristics Housing Weight Dimensions Environmental Limits Deperating Temparture Deperating Humidity Storage Temperature	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mm 0 to 55°C 5 to 95% RH	√ Metal (IP30) 3160 g 1 0 to 55°C 5 to 95% RH	, UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C 5 to 95% RH	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH	Metal (IP30) 3420 g 0 to 55°C 5 to 95% RH	Metal (IP30) 3260 g 0 to 55°C 5 to 95% RH
Linux Real TTY Drivers Onsite Configuration Wini Screen with Push Suttons Physical Characteristics Housing Weight Dimensions Environmental Limits Deperating Temparture Deperating Humidity Storage Temperature Power Requirements Input Voltage	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mm 0 to 55°C 5 to 95% RH	√ Metal (IP30) 3160 g 1 0 to 55°C 5 to 95% RH	, UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C 5 to 95% RH	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH	Metal (IP30) 3420 g 0 to 55°C 5 to 95% RH	Metal (IP30) 3260 g 0 to 55°C 5 to 95% RH
Linux Real TTY Drivers Disite Configuration Vini Screen with Push Suttons Physical Characteristics Housing Neight Dimensions Environmental Limits Diperating Temparture Deperating Humidity Storage Temperature Power Requirements nput Voltage Power Consumption @ 12/24/48 VDC	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mm 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC,	√ Metal (IP30) 3160 g 0 to 55°C 5 to 95% RH -20 to 75°C	UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC,	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC,	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC,	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC,	Metal (IP30) 3420 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC,	Metal (IP30) 3260 g 0 to 55°C 5 to 95% RH -20 to 75°C
Linux Real TTY Drivers Dnsite Configuration Mini Screen with Push Vations Physical Characteristics Housing Veight Dimensions Environmental Limits Diperating Temparture Diperating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption @ 2/24/48 VDC Power Consumption @	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mm 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC,	√ Metal (IP30) 3160 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC	UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC,	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC,	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC,	Metal (IP30) 3420 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC,	Metal (IP30) 3260 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC
Linux Real TTY Drivers Dnsite Configuration Mini Screen with Push Juttons Physical Characteristics Housing Weight Dimensions Environmental Limits Diperating Temparture Derating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption @ 12/24/48 VDC Power Consumption @ 100/240 VAC	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mm 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz	√ Metal (IP30) 3160 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC //135 mA	UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz 	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz 	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz 	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz 	Metal (IP30) 3420 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz 	Metal (IP30) 3260 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC //135 mA
Linux Real TTY Drivers Onsite Configuration Vini Screen with Push Juttons Physical Characteristics Housing Weight Dimensions Environmental Limits Derating Temparture Derating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption @ 12/24/48 VDC Power Consumption @ 100/240 VAC Regulatory Approvals	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mm 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz 141/93 mA	√ Metal (IP30) 3160 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC //135 mA 	UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  152/98 mA	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz 	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  174/113 mA	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  164/110 mA	Metal (IP30) 3420 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  141/93 mA	Metal (IP30) 3260 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC /135 mA 
Linux Real TTY Drivers Dnsite Configuration Mini Screen with Push Suttons Physical Characteristics Housing Weight Dimensions Environmental Limits Derating Temparture Derating Temparture Power Requirements Input Voltage Power Consumption @ L2/24/48 VDC Power Consumption P L2/24/48 VDC P L	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mm 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz 141/93 mA CE (EN55022 Class Part 15 Subpart B	√ Metal (IP30) 3160 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC //135 mA  s A, EN55024), FCC Class A,	UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  152/98 mA	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  158/102 mA	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  174/113 mA	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  164/110 mA	Metal (IP30) 3420 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  141/93 mA CE (EN55022 Class Part 15 Subpart B	Metal (IP30) 3260 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC //135 mA 
Linux Real TTY Drivers Dnsite Configuration Wini Screen with Push Juttons Physical Characteristics Housing Weight Dimensions Environmental Limits Derating Temparture Derating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption @ 12/24/48 VDC Power Consumption @ 100/240 VAC Regulatory Approvals EMC Safety Marine	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mm 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz 141/93 mA CE (EN55022 Class Part 15 Subpart B i IEC61000-4-12	√ Metal (IP30) 3160 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC //135 mA  s A, EN55024), FCC Class A,	UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  152/98 mA	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  158/102 mA	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  174/113 mA	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  164/110 mA	Metal (IP30) 3420 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  141/93 mA CE (EN55022 Class Part 15 Subpart B	Metal (IP30) 3260 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC //135 mA 
Linux Real TTY Drivers Dnsite Configuration Mini Screen with Push Suttons Physical Characteristics Housing Veight Dimensions Environmental Limits Diperating Temparture Derating Humidity Storage Temperature Power Requirements Input Voltage Power Consumption @ 12/24/48 VDC Power Consumption @ 10/240 VAC Regulatory Approvals EMC Safety Marine	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mm 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz 141/93 mA CE (EN55022 Class Part 15 Subpart B IEC61000-4-12 UL (UL60950-1), T	√ Metal (IP30) 3160 g 0 to 55°C 5 to 95% RH -20 to 75°C -20 to 75°C ±48 VDC //135 mA  S A, EN55024), FCC Class A, "U (EN60950-1) 	UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  152/98 mA CE (EN55022 Class	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  158/102 mA s A, EN55024), FCC P	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  174/113 mA art 15 Subpart B Class	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  164/110 mA S A	Metal (IP30) 3420 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  141/93 mA CE (EN55022 Class Part 15 Subpart B IEG61000-4-12	Metal (IP30) 3260 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC //135 mA  s A, EN55024), FCC Class A,
Linux Real TTY Drivers Dnsite Configuration Wini Screen with Push Juttons Physical Characteristics Housing Weight Dimensions Environmental Limits Derating Temparture Derating Temparture Power Requirements Input Voltage Power Consumption @ 12/24/48 VDC Power Consumption @ 100/240 VAC Regulatory Approvals EMC Safety Marine Wedical	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mn 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz 141/93 mA CE (EN55022 Class Part 15 Subpart B IEG61000-4-12 UL (UL60950-1), T 	√ Metal (IP30) 3160 g 0 to 55°C 5 to 95% RH -20 to 75°C -20 to 75°C ±48 VDC //135 mA  S A, EN55024), FCC Class A, "U (EN60950-1) 	UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  152/98 mA CE (EN55022 Class	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  158/102 mA s A, EN55024), FCC P	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  174/113 mA art 15 Subpart B Class	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  164/110 mA S A	Metal (IP30) 3420 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  141/93 mA CE (EN55022 Class Part 15 Subpart B IEG61000-4-12	Metal (IP30) 3260 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC //135 mA  s A, EN55024), FCC Class A,
Linux Real TTY Drivers Dnsite Configuration Mini Screen with Push Juttons Physical Characteristics Housing Weight Dimensions Environmental Limits Departing Temparture Departing Humidity Storage Temperature Power Requirements Input Voltage Power Consumption @ 12/24/48 VDC Power Consumption @ 12/24/48 VDC Power Consumption @ 12/24/48 VDC EMC Safety Marine Wedical Reliability	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mn 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz 141/93 mA CE (EN55022 Class Part 15 Subpart B IEG61000-4-12 UL (UL60950-1), T 	√ Metal (IP30) 3160 g 0 to 55°C 5 to 95% RH -20 to 75°C -20 to 75°C ±48 VDC //135 mA  S A, EN55024), FCC Class A, "U (EN60950-1) 	UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  152/98 mA CE (EN55022 Class	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  158/102 mA s A, EN55024), FCC P	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  174/113 mA art 15 Subpart B Class	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  164/110 mA S A	Metal (IP30) 3420 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  141/93 mA CE (EN55022 Class Part 15 Subpart B IEG61000-4-12	Metal (IP30) 3260 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC /135 mA  s A, EN55024), FCC Class A,
inux Real TTY Drivers	Linux 2.4.x, 2.6.x √ Metal (IP30) 3340 g 440 x 45 x 198 mm 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz 141/93 mA CE (EN55022 Class Part 15 Subpart B) IEC61000-4-12 UL (UL60950-1), T  EN60601-1-2 Class	√ Metal (IP30) 3160 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC //135 mA  \$ A, EN55024), FCC Class A, ÜV (EN60950-1)  \$ B, EN55011	UnixWare 2.1, SVR 4 √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  152/98 mA CE (EN55022 Class	4.2, QNX 4.25, QNX 6, √ Metal (IP30) 3360 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  158/102 mA s A, EN55024), FCC P. 	Solaris 10, FreeBSD, √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  174/113 mA art 15 Subpart B Class	AIX 5.x, HP-UX 11i √ Metal (IP30) 3380 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  164/110 mA 	Metal (IP30) 3420 g 0 to 55°C 5 to 95% RH -20 to 75°C 100 to 240 VAC, 47 to 63 hz  141/93 mA CE (EN55022 Class Part 15 Subpart B IEC61000-4-12	Metal (IP30) 3260 g 0 to 55°C 5 to 95% RH -20 to 75°C ±48 VDC /135 mA  s A, EN55024), FCC Class A, 

Ethernet Interface 10BaseT Ports 10/100BaseT(X) Ports 10/00BaseTX Ports Connector Magnetic Isolation Protection Serial Interface RS-232/422 Ports RS-232/422 Ports RS-232/422/485 Ports Connector 15 KV ESD Protection 2 KV Isolation Protection	NPort@ 5630-16  1  RJ45 1.5 KV  16	NPort® 5650-16	NPort® 5650-16-M-SC  1 (multi-mode) SC 	NPort® 5650-16-S-SC	NPort® 5610-8-DT	NPort® 5610-8-DT-J	NPort® 5650-8-DT	NPort® 5650I-8-DT	NPort® 5650-8-DT-J
10BaseT Ports 10/100BaseT(X) Ports 100BaseFX Ports Connector Magnetic Isolation Protection Serial Interface RS-232/422 Ports RS-232/422/485 Ports Connector 15 KV ESD Protection 2 KV Isolation	1  RJ45 1.5 KV	1  RJ45	 1 (multi-mode) SC	 1 (single-mode)					Ú
10/100BaseT(X) Ports 100BaseFX Ports Connector Magnetic Isolation Protection Serial Interface RS-232 Ports RS-232/422 Ports RS-232/422/485 Ports Connector 15 KV ESD Protection 2 KV Isolation	1  RJ45 1.5 KV	1  RJ45	 1 (multi-mode) SC	 1 (single-mode)					
100BaseFX Ports Connector Magnetic Isolation Protection Serial Interface RS-232 Ports RS-232/422 Ports RS-232/422/485 Ports Connector 15 KV ESD Protection 2 KV Isolation	 RJ45 1.5 KV	 RJ45	1 (multi-mode) SC	1 (single-mode)	2				
Connector Magnetic Isolation Protection Serial Interface RS-232 Ports RS-232/422 Ports RS-232/422/485 Ports Connector 15 KV ESD Protection 2 KV Isolation	RJ45 1.5 KV 	RJ45	SC	,	-	2	2	2	2
Magnetic Isolation Protection Serial Interface RS-232 Ports RS-232/422 Ports RS-232/422/485 Ports Connector 15 KV ESD Protection 2 KV Isolation	1.5 KV			SC					
Protection Serial Interface RS-232 Ports RS-232/422 Ports RS-232/422/485 Ports Connector 15 KV ESD Protection 2 KV Isolation		1.5 KV			RJ45	RJ45	RJ45	RJ45	RJ45
RS-232 Ports RS-232/422 Ports RS-232/422/485 Ports Connector 15 KV ESD Protection 2 KV Isolation					1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV
RS-232/422 Ports RS-232/422/485 Ports Connector 15 KV ESD Protection 2 KV Isolation									
RS-232/422/485 Ports Connector 15 KV ESD Protection 2 KV Isolation	16				8	8			
Connector 15 KV ESD Protection 2 KV Isolation									
15 KV ESD Protection 2 KV Isolation		16	16	16			8 DD0 M	8	8
2 KV Isolation	RJ45 √	RJ45 √	RJ45 √	RJ45 √	DB9-M √	RJ45	DB9-M √	DB9-M	RJ45
	N	N	N	N	N	$\checkmark$	N	$\checkmark$	$\checkmark$
Serial Communication								$\checkmark$	
Parameters	Data Bits: 5, 6, 7, 8	8; Stop Bits: 1, 1.5, 2	; Parity: None, Even	, Odd, Space, Mark					
Flow Control	RTS/CTS, XON/XO	FF							
Baudrate	50 bps to 921.6 Kt	bps							
Software									
Network Protocols	SNTP, ARP, PPP, S	P, DHCP, BOOTP, Telr LIP, RTelnet, RFC22	et, DNS, SNMP V1/ 17	/2c, HTTP, SMTP,	ICMP, IP, TCP, U Rtelnet, ARP, RF	DP, DHCP, BOOTP, C2217	, Telnet, DNS, SNM	P V1/V2c, HTTP, S	MTP, SNTP,
Web Console	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Serial Console							$\checkmark$	$\checkmark$	
Telnet Console				$\checkmark$		$\checkmark$	V	$\checkmark$	
Windows Utility	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	V	$\checkmark$
Windows Real COM Drivers	Windows 95, 98, N	ME, NT, 2000, XP x8	6/x64, 2003 x86/x64	, Vista x86/x64, 200	3 x86/x64, Embedo	ded CE 5.0/6.0, XP	Embedded		
Fixed TTY Drivers	SCO Unix, SCO Op	enServer, UnixWare	7, UnixWare 2.1, SV	'R 4.2, QNX 4.25, QN	IX 6, Solaris 10, Fr	eeBSD, AIX 5.x, H	P-UX 11i		
Linux Real TTY Drivers	Linux 2.4.x, 2.6.x								
Onsite Configuration									
Mini Screen with Push	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
Buttons	N	N	N	N	N	N	N	N	N
Physical Characteristics									
Housing	Metal (IP30)	Metal (IP30)	Metal (IP30)	Metal (IP30)	Metal (IP30)	Metal (IP30)	Metal (IP30)	Metal (IP30)	Metal (IP30)
Weight	3400 g	3460 g	3440 g	3440 g	1760 g	1170 g	1770 g	1850 g	1710 g
Dimensions	440 x 45 x 198 mm	n			197 x 44 x 135.	5 mm			
Environmental Limits									
Operating Temparture	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C
Operating Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH
Storage Temperature	-20 to 75°C	-20 to 75°C	-20 to 75°C	-20 to 75°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C
Power Requirements									
Input Voltage	100 to 240 VAC, 47 to 63 hz	100 to 240 VAC, 47 to 63 hz	100 to 240 VAC, 47 to 63 hz	100 to 240 VAC, 47 to 63 hz	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC
Power Consumption @ 12/24/48 VDC					611/300/140 mA	611/300/140 mA	615/300/156 mA	1066/510/200 mA	615/300/156 mA
Power Consumption @ 100/240 VAC	152/98 mA	158/102 mA	174/113 mA	164/110 mA					
Regulatory Approvals									
EMC	CE (EN55022 Class	s A, EN55024), FCC	Part 15 Subpart B Cl	ass A	CE (EN55022 CI	ass A, EN55024),	FCC Part 15 Subpa	rt B Class A	
Safety	UL (UL60950-1), T	TÜV (EN60950-1)							
Marine									
Medical	EN60601-1-2 Class B, EN55011	EN60601-1-2 Class B, EN55011	EN60601-1-2 Class B, EN55011	EN60601-1-2 Class B, EN55011					
		LINGOUTI	2100011	2100011					
Reliability	$\checkmark$		$\checkmark$		$\checkmark$				
	v	Y	v		v	Y			Y.
Reliability Buzzer, RTC, WDT MTBF	91483 hrs	104767 hrs	87528 hrs	87528 hrs	163356 hrs	163356 hrs	163356 hrs	163356 hrs	163356 hrs

# Industrial-grade Device Servers

	NPort® IA5150 NPort® IA5150-T	NPort® IA5150I NPort® IA5150I-T	NPort® IA5150-M-SC NPort® IA5150-M-SC-T	NPort® IA5150I-M-SC NPort® IA5150I-M-SC-T	NPort® IA5150-S-SC NPort® IA5150-S-SC-T	NPort® IA5150I-S-SC NPort® IA5150I-S-SC-T	NPort® IA5250 NPort® IA5250-
thernet Interface							
0/100BaseT(X) Ports	2	2					2
00BaseFX Ports			1 (multi-mode)	1 (multi-mode)	1 (single-mode)	1 (single-mode)	
Connector	RJ45	RJ45	SC	SC	SC	SC	RJ45
Vlagnetic Isolation Protection	1.5 KV	1.5 KV					1.5 KV
Serial Interface							
RS-232/422/485 Ports	1	1	1	1	1	1	2
Connector	DB9-M/TB	DB9-M/TB	DB9-M/TB	DB9-M/TB	DB9-M/TB	DB9-M/TB	DB9-M
5 KV ESD Protection	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
2 KV Isolation Protection		$\checkmark$		$\checkmark$		$\checkmark$	
Serial Communication Parameters	Data Bits: 5, 6, 7, 8	3; Stop Bits: 1, 1.5, 2;	Parity: None, Even, Odd, Sp	ace, Mark			
low Control	RTS/CTS, XON/XO	FF					
Baudrate	110 bps to 230.4 K	(bps					
Software							
Network Protocols Configuration Options		P, DHCP, BOOTP, Telne al Console, Telnet Con	t, Rtelnet, DNS, SNMP V1/V	2c, HTTP, SMTP, SNTP			
Windows Real COM Drivers				6/x64, 2008 x86/x64, Embed	Ided CE 5.0/6.0, XP Embedd	led	
ixed TTY Drivers	SCO Unix, SCO Op	enServer, UnixWare 7	UnixWare 2.1, SVR 4.2, QN	IX 4.25, QNX 6, Solaris 10, F	reeBSD, AIX 5.x, HP-UX 11	i	
inux Real TTY Drivers.	Linux 2.4.x, 2.6.x						
Physical Characteristics							
Housing	Plastic (IP30)						
Weight	360 g						
Dimensions	29 x 89.2 x 118.5 r	mm					
Environmental Limits							
Operating Temparture	0 to 55°C or -40 to	7500					
Operating Humidity		) /5°U					
	5 to 95% RH	175°C					
	5 to 95% RH -40 to 85°C	075°C					
Storage Temperature Power Requirements		) /5°C					
Storage Temperature Power Requirements		12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC
storage Temperature Power Requirements nput Voltage	-40 to 85°C		12 to 48 VDC 500 mA @ 12 V, 250 mA @ 24 V	12 to 48 VDC 510 mA @ 12 V, 260 mA @ 24 V	12 to 48 VDC 470 mA @ 12 V, 210 mA @ 24 V	12 to 48 VDC 490 mA @ 12 V, 250 mA @ 24 V	12 to 48 VDC 440 mA @ 12 V, 200 mA @ 24 V
Storage Temperature Power Requirements nput Voltage Power Consumption Regulatory Approvals	-40 to 85°C 12 to 48 VDC 360 mA @ 12 V,	12 to 48 VDC 420 mA @ 12 V,	500 mA @ 12 V,	510 mA @ 12 V,	470 mA @ 12 V,	490 mA @ 12 V,	440 mA @ 12 V
Storage Temperature Power Requirements nput Voltage Power Consumption Regulatory Approvals IMC	-40 to 85°C 12 to 48 VDC 360 mA @ 12 V, 195 mA @ 24 V CE (EN55022 Class	12 to 48 VDC 420 mA @ 12 V, 215 mA @ 24 V s A, EN55024), FCC Pa	500 mA @ 12 V, 250 mA @ 24 V art 15 Subpart B Class A	510 mA @ 12 V,	470 mA @ 12 V,	490 mA @ 12 V,	440 mA @ 12 V
Storage Temperature Power Requirements nput Voltage Power Consumption Regulatory Approvals EMC Safety	-40 to 85°C 12 to 48 VDC 360 mA @ 12 V, 195 mA @ 24 V CE (EN55022 Class UL (UL60950-1), L	12 to 48 VDC 420 mA @ 12 V, 215 mA @ 24 V s A, EN55024), FCC Pa JL508, TÜV (EN60950	500 mA @ 12 V, 250 mA @ 24 V art 15 Subpart B Class A -1)	510 mA @ 12 V,	470 mA @ 12 V,	490 mA @ 12 V,	440 mA @ 12 V
torage Temperature Power Requirements Input Voltage Power Consumption Regulatory Approvals MC Bafety Bazardous Location	-40 to 85°C 12 to 48 VDC 360 mA @ 12 V, 195 mA @ 24 V CE (EN55022 Class UL (UL60950-1), L UL/cUL Class 1 Div	12 to 48 VDC 420 mA @ 12 V, 215 mA @ 24 V s A, EN55024), FCC Pa	500 mA @ 12 V, 250 mA @ 24 V art 15 Subpart B Class A -1)	510 mA @ 12 V,	470 mA @ 12 V,	490 mA @ 12 V,	440 mA @ 12 V
torage Temperature Power Requirements Input Voltage Power Consumption Regulatory Approvals MC Infecty Iazardous Location TEX	-40 to 85°C 12 to 48 VDC 360 mA @ 12 V, 195 mA @ 24 V CE (EN55022 Class UL (UL60950-1), L UL/CUL Class 1 Div Class I, Zone 2	12 to 48 VDC 420 mA @ 12 V, 215 mA @ 24 V s A, EN55024), FCC Pa JL508, TÜV (EN60950	500 mA @ 12 V, 250 mA @ 24 V art 15 Subpart B Class A -1)	510 mA @ 12 V,	470 mA @ 12 V,	490 mA @ 12 V,	440 mA @ 12 V
torage Temperature Power Requirements Input Voltage Power Consumption Regulatory Approvals MC Bafety Bazardous Location TEX Aarine	-40 to 85°C 12 to 48 VDC 360 mA @ 12 V, 195 mA @ 24 V CE (EN55022 Class UL (UL60950-1), L UL/cUL Class 1 Div Class I, Zone 2 DNV	12 to 48 VDC 420 mA @ 12 V, 215 mA @ 24 V s A, EN55024), FCC Pa JL508, TŨV (EN60950 vision 2 Groups A, B, G	500 mA @ 12 V, 250 mA @ 24 V art 15 Subpart B Class A -1) C and D	510 mA @ 12 V, 260 mA @ 24 V	470 mA @ 12 V, 210 mA @ 24 V	490 mA @ 12 V, 250 mA @ 24 V	440 mA @ 12 V 200 mA @ 24 V
Storage Temperature Power Requirements nput Voltage Power Consumption Regulatory Approvals MC Bafety Hazardous Location TTEX Jarine MS	-40 to 85°C 12 to 48 VDC 360 mA @ 12 V, 195 mA @ 24 V CE (EN55022 Class UL (UL60950-1), L UL/cUL Class 1 Div Class I, Zone 2 DNV EN61000-4-21 (ESD EN61000-4-11; EN	12 to 48 VDC 420 mA @ 12 V, 215 mA @ 24 V s A, EN55024), FCC Pa JL508, TÜV (EN60950 rision 2 Groups A, B, 0), Level 3: EN61000-4 61000-4-12	500 mA @ 12 V, 250 mA @ 24 V art 15 Subpart B Class A -1) C and D -3 (RS), Level 3; EN61000-	510 mA @ 12 V, 260 mA @ 24 V 4-4 (EFT), Level 4; EN61000-	470 mA @ 12 V, 210 mA @ 24 V	490 mA @ 12 V, 250 mA @ 24 V	440 mA @ 12 V 200 mA @ 24 V
Storage Temperature Power Requirements Input Voltage Power Consumption Regulatory Approvals MC Safety Hazardous Location ITEX Aarine MS EC	-40 to 85°C 12 to 48 VDC 360 mA @ 12 V, 195 mA @ 24 V CE (EN55022 Class UL (UL60950-1), L UL/cUL Class 1 Div Class I, Zone 2 DNV EN61000-4-2 (ESD EN61000-4-11; EN IEC60068-2-27 (Sh	12 to 48 VDC 420 mA @ 12 V, 215 mA @ 24 V s A, EN55024), FCC P; JL508, TÜV (EN60950 <i>i</i> ision 2 Groups A, B, 6 0), Level 3; EN61000-4 61000-4-12 hock); IEC60068-2-32	500 mA @ 12 V, 250 mA @ 24 V art 15 Subpart B Class A -1) 2 and D -3 (RS), Level 3; EN61000- (Freefall); IEC60068-2-6 (V	510 mA @ 12 V, 260 mA @ 24 V 4-4 (EFT), Level 4; EN61000- ibration)	470 mA @ 12 V, 210 mA @ 24 V -4-5 (Surge), Level 3; EN61	490 mA @ 12 V, 250 mA @ 24 V 000-4-6 (CS), Level 3; EN61	440 mA @ 12 V 200 mA @ 24 V 000-4-8;
Storage Temperature Power Requirements nput Voltage Power Consumption Regulatory Approvals EMC Safety Hazardous Location ATEX Marine ENS EC Dust-proof	-40 to 85°C 12 to 48 VDC 360 mA @ 12 V, 195 mA @ 24 V CE (EN55022 Class UL (UL60950-1), L UL/cUL Class 1 Div Class I, Zone 2 DNV EN61000-4-21 (ESD EN61000-4-11; EN	12 to 48 VDC 420 mA @ 12 V, 215 mA @ 24 V s A, EN55024), FCC Pa JL508, TÜV (EN60950 rision 2 Groups A, B, 0), Level 3: EN61000-4 61000-4-12	500 mA @ 12 V, 250 mA @ 24 V art 15 Subpart B Class A -1) C and D -3 (RS), Level 3; EN61000-	510 mA @ 12 V, 260 mA @ 24 V 4-4 (EFT), Level 4; EN61000-	470 mA @ 12 V, 210 mA @ 24 V	490 mA @ 12 V, 250 mA @ 24 V	440 mA @ 12 V 200 mA @ 24 V
Storage Temperature Power Requirements nput Voltage Power Consumption Regulatory Approvals EMC Safety Hazardous Location ATEX Marine EC Dust-proof Reliability	-40 to 85°C 12 to 48 VDC 360 mA @ 12 V, 195 mA @ 24 V CE (EN55022 Class UL (UL60950-1), L UL/CUL Class 1 Div Class I, Zone 2 DNV EN61000-4-2 (ESD EN61000-4-11; EN IEC60068-2-27 (Sh IP30	12 to 48 VDC 420 mA @ 12 V, 215 mA @ 24 V s A, EN55024), FCC P; JL508, TÜV (EN60950 <i>i</i> sion 2 Groups A, B, 0 <i>i</i> sion 2 Groups A, B, 0 ), Level 3; EN61000-4 61000-4-12 hock); IEC60068-2-32 IP30	500 mA @ 12 V, 250 mA @ 24 V htt 15 Subpart B Class A -1) C and D -3 (RS), Level 3; EN61000- (Freefall); IEC60068-2-6 (V IP30	510 mA @ 12 V, 260 mA @ 24 V 4-4 (EFT), Level 4; EN61000- ibration) IP30	470 mA @ 12 V, 210 mA @ 24 V -4-5 (Surge), Level 3; EN61 IP30	490 mA @ 12 V, 250 mA @ 24 V 000-4-6 (CS), Level 3; EN61 IP30	440 mA @ 12 V 200 mA @ 24 V 000-4-8; IP30
Aborage Temperature Power Requirements Input Voltage Power Consumption Regulatory Approvals MC Safety Hazardous Location ITEX Marine EC Dust-proof Reliability Buzzer, RTC, WDT	-40 to 85°C 12 to 48 VDC 360 mA @ 12 V, 195 mA @ 24 V CE (EN55022 Class UL (UL60950-1), U UL/CUL Class 1 Div Class I, Zone 2 DNV EN61000-4-2 (ESD EN61000-4-11; EN IEC60068-2-27 (SH IP30	12 to 48 VDC 420 mA @ 12 V, 215 mA @ 24 V s A, EN55024), FCC P; JL508, TŪV (EN60950 vision 2 Groups A, B, G 0), Level 3; EN61000-4 61000-4-12 nock); IEC60068-2-32 IP30 √	500 mA @ 12 V, 250 mA @ 24 V art 15 Subpart B Class A -1) C and D -3 (RS), Level 3; EN61000- (Freefall); IEC60068-2-6 (V IP30	510 mA @ 12 V, 260 mA @ 24 V 4-4 (EFT), Level 4; EN61000- ibration) IP30	470 mA @ 12 V, 210 mA @ 24 V -4-5 (Surge), Level 3; EN61 IP30	490 mA @ 12 V, 250 mA @ 24 V 000-4-6 (CS), Level 3; EN61 IP30	440 mA @ 12 V 200 mA @ 24 V 000-4-8; IP30
Storage Temperature	-40 to 85°C 12 to 48 VDC 360 mA @ 12 V, 195 mA @ 24 V CE (EN55022 Class UL (UL60950-1), L UL/cUL Class 1 Div Class I, Zone 2 DNV EN61000-4-2 (ESD EN61000-4-11; EN IEC60068-2-27 (SH IP30 √ 183747 hrs	12 to 48 VDC 420 mA @ 12 V, 215 mA @ 24 V s A, EN55024), FCC P; JL508, TÜV (EN60950 <i>i</i> sion 2 Groups A, B, 0 <i>i</i> sion 2 Groups A, B, 0 ), Level 3; EN61000-4 61000-4-12 hock); IEC60068-2-32 IP30	500 mA @ 12 V, 250 mA @ 24 V htt 15 Subpart B Class A -1) C and D -3 (RS), Level 3; EN61000- (Freefall); IEC60068-2-6 (V IP30	510 mA @ 12 V, 260 mA @ 24 V 4-4 (EFT), Level 4; EN61000- ibration) IP30	470 mA @ 12 V, 210 mA @ 24 V -4-5 (Surge), Level 3; EN61 IP30	490 mA @ 12 V, 250 mA @ 24 V 000-4-6 (CS), Level 3; EN61 IP30	440 mA @ 12 V 200 mA @ 24 V 000-4-8; IP30

#### **Embedded Device Servers**



	MiiNePort E1 MiiNePort E1-T	NE-4110S	NE-4110A	NE-4120S	NE-4120A	NE-4100T	WE-2100T
Form Factor			·		·		
Гуре	Drop-in module	Readv-to-go sta	Ind-alone module:	S		26-pin dual-in-line	Small metal housing
Dimensions	33.9 x 16.25 x 13.5 mm	57 × 40 mm	57 × 40 mm	57 × 40 mm	57 × 40 mm	package 45 × 36 mm	54 x 40 x 13.3 mm
thernet Interface	55.5 × 10.25 × 10.5 mm	37 × 40 mm	57 × 40 mm	37 × 40 mm	57 × <del>1</del> 0 mm	40 × 00 mm	34 X 40 X 10.0 mm
0/100BaseT(X) Ports	1	1	1	1	1	1	1
Connector	RJ45	RJ45	RJ45	5-pin pin heade		26-pin dual-in-line	44-pin dual-in-line
Magnetic Isolation	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV
Protection	1.0 1.0	1.5 KV	1.5 KV	1.5 KV	1.5 10	1.5 KV	1.5 10
VLAN Interface							
Standard Compliance							IEEE 802.11a/b/g
ladio Frequency Type							DSSS, CCK, DFDM
Vireless Security							SEP, SPA, SPA2, 802.1
letwork Modes							Infrastructure (a/b/g), Ad Hoc (b/g)
erial Interface							
TL Ports	1 (data port)	1 (console port)	)			2 (1 data port, 1 con	sole port)
RS-232 Ports		1 (data port)		1 (data port)			
S-232/422 Ports			1 (data port)		1 (data port)		
Serial Communication Parameters	Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; Parity: N	lone, Even, Odd, S	Space, Mark				
low Control	RTS/CTS, XON/XOFF						
Baudrate	50 bps to 230.4 Kbps* (supports non-standard baudrates)	110 bps to 230.	4 Kbps				50 bps to 921.6 Kbps
Programmable GPIO Pins	3	4	4	4	4	4	
Software							
letwork Protocols	ICMP, IP, TCP, UDP, DHCP, Telnet, HTTP, SNMP V ARP, TFTP, Auto IP, BOOTP	/1/V2c, SMTP ARP					DNS, SNTP, SSH, HTT
Configuration Options	Web/Serial/Telnet Console, Windows Utility						
Serial Command Mode	$\checkmark$						$\checkmark$
Vindows Real COM Drivers	Windows 95, 98, ME, NT, 2000, XP x86/x64, 200	03 x86/x64, Vista	x86/x64, 2008 x80	6/x64, Embedded	CE 5.0/6.0, XP Em	bedded	
ixed TTY Drivers	SCO Unix, SCO OpenServer, UnixWare 7, UnixW	are 2.1. SVR 4.2.	QNX 4.25. QNX 6.	Solaris 10, FreeB	SD. AIX 5.x. HP-U	X 11i	
inux Real TTY Drivers	Linux 2.4.x, 2.6.x		,,		,		
Operation Modes	TCP Server, TCP Client, UDP, Real COM mode, Modem Mode, RFC2217	Real COM, TCP	Server, TCP Clien	t, UDP			Real COM, TCP Server TCP Client, UDP,
Environmental Limits							RFC2217
perating Temparture	0 to 55°C or -40 to 85°C	0 to 55°C or -40	) to 75°C				0 to 55°C
perating Humidity	5 to 95% RH	010 00 0 01 40					5 to 95% RH
Storage Temperature	-40 to 85°C	-20 to 70°C					-20 to 70°C
Power Requirements	10 10 00 0	2010700					2010100
nput Voltage	3.3 VDC (±5%)	5 VDC (±5%)	5 VDC (+5%)	5 VDC (+5%)	5 VDC (+5%)	5 VDC (±5%)	3.3 VDC (±5%)
ower Consumption	160 mA @ 3.3 VDC max.	290 mA @ 5 VE	5 VDC (±5%)	5 VDC (±5%)	5 VDC (±5%)	5 VDG (±5 %)	540 mA (at full speed)
legulatory Approvals		250 mA @ 5 VL	ю шах.				540 mA (at tull speed)
MC	EN55022:1998, Class B (radiated & conducted emissions); EN55024:1998 (direct & indirect ESD, electrical fast-transient/ burst immunity, power frequency magnetic field immunity)	CE (EN55022 C	lass A), FCC Part	15 Subpart B Clas	s A		CE (EN55022 and EN55024 Class A, ETS EN 301 489-17, ETSI E 301 489-1)
Reliability							
Natchdog Timer	$\checkmark$	V		V	$\checkmark$	V	
MTBF		290276 hrs	289573 hrs	289573 hrs	289573 hrs	288173 hrs	505288 hrs
					2000101.00		

\* Baudrates up to 921.6 Kbps available by request

MOX/

#### **Ethernet Fieldbus Gateways**

	MGate™ MB3170 MGate™ MB3170-T	MGate™ MB3170I MGate™ MB3170I-T	MGate™ MB3270 MGate™ MB3270-T	MGate™ MB3270I MGate™ MB3270I-T	MGate™ MB3180	MGate™ MB3280	MGate™ MB3480
Ethernet Interface	•	1			1		
Number of Ports	2 (1 IP)	2 (1 IP)	2 (1 IP)	2 (1 IP)	1	1	1
Speed	10/100 Mbps	10/100 Mbps	10/100 Mbps	10/100 Mbps	10/100 Mbps	10/100 Mbps	10/100 Mbps
Connector	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45	RJ45
Magnetic Isolation Protection	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV
Serial Interface							
Number of Ports	1	1	2	2	1	2	4
Serial Standards	RS-232/422/485	RS-232/422/485	RS-232/422/485	RS-232/422/485	RS-232/422/485	RS-232/422/485	RS-232/422/485
Connectors	RS-232: DB9-M; RS-4	22/485: Terminal Block	DB9-M	DB9-M	DB9-M	DB9-M	DB9-M
ESD Protection	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV
RS-485 Data Direction Control	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®	ADDC®
Serial Communication Parameters	Data Bits: 7, 8; Stop B	its: 1, 2; Parity: None, Ev	en, Odd, Space, Mark				
Parity	None, Even, Odd, Spa	ce, Mark					
Flow Control	RTS/CTS, DTR/DSR (F	RS-232 only)					
Baudrate	50 bps to 921.6 Kbps						
Software							
Operation Modes	BTU Slave BTU Maste	er, ASCII Slave, ASCII Ma	ster				
Utilities		te for Windows 98, ME, I		1			
Smart Routing	√	√	√	√	$\checkmark$		V
Serial Redirection	V	V	V	1			
Priority Control	V	V	V	V			
Ethernet Protocol		v	· · · ·				
Serial Protocol							
Physical Characteristics							
Housing	Diantia	Plastic	Plastic	Plastic	Matal	Matal	Metal (IP30)
Dimensions	Plastic 29 x 89.2 x 118.5 mm		FIDSUL	FIdSUL	Metal 22 x 52 x 80 mm	Metal 22 x 77 x 111 mm	35.5 x 103 x 158 mm
	29 x 09.2 x 110.5 11111				22 X 32 X 60 IIIII	22 X / / X / / / //////	33.3 X 103 X 136 IIIII
Environmental Limits							
Operating Temperature	0 to 55°C or -40 to 75				0 to 55°C	0 to 55°C	0 to 55°C
Operating Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH
Storage Temperature	-40 to 85°C	-40 to 85°C	-40 to 85°C	-40 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C
Power Requirements							
Input Voltage	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC
Power Connector	Terminal block	Terminal block	Terminal block	Terminal block	Power jack	Power jack and termi	nal block
Regulatory Approvals							
EMC	CE (EN55022 Class A	and EN55024), FCC Part	15 Subpart B Class A				
Safety	UL (UL60950-1), TÜV						
Hazardous Location		on 2 Groups A, B, C, D; A	TEX Class 1 Zone 2				
Shock	IEC 60068-2-27						
Freefall	IEC 60068-2-23						
Vibration	IEC 60068-2-6						
Marine	DNV						
EMS	EN61000-4-2 (ESD): L EN61000-4-3 (RS): Le EN61000-4-4 (ETC): L EN61000-4-5 (Surge): EN61000-4-6 (CS): Le EN61000-4-8: Passed EN61000-4-11: Passe EN61000-4-12: Passe	evel 3 evel 4 : Level 3 evel 3 d			EN61000-4-2 (ESD): EN61000-4-3 (RS): L EN61000-4-4 (EFT): I EN61000-4-5 (Surge EN61000-4-6 (CS): L EN61000-4-8: Passe EN61000-4-11: Pass EN61000-4-12: Pass	evel 2 .evel 2 ): Level 2 evel 2 J ad	
Doliobility	LINO 1000-4-12. Passe	u			LINO 1000-4-12. Pass	50	
Reliability							
Warranty	5 years (see www.mo:	xa.com/warranty)					

#### **Ethernet Fieldbus Gateways**

			and the second s	3
	MGate™ EIP3170 MGate™ EIP3170-T	MGate™ EIP3170I MGate™ EIP3170I-T	MGate™ EIP3270 MGate™ EIP3270-T	MGate™ EIP3270I MGate™ EIP3270I-T
Ethernet Interface				
Number of Ports	2 (1 IP)	2 (1 IP)	2 (1 IP)	2 (1 IP)
Speed	10/100 Mbps	10/100 Mbps	10/100 Mbps	10/100 Mbps
Connector	RJ45	RJ45	RJ45	RJ45
Magnetic Isolation Protection	1.5 KV	1.5 KV	1.5 KV	1.5 KV
Serial Interface				
Number of Ports	1	1	2	2
Serial Standards	RS-232/422	RS-232/422	RS-232/422	RS-232/422
Connectors	DB9-M (RS-232), TB (RS-422)	DB9-M (RS-232), TB (RS-422)	DB9-M	DB9-M
ESD Protection	15 KV	15 KV	15 KV	15 KV
RS-485 Data Direction Control	ADDC®	ADDC®	ADDC®	ADDC®
Serial Communication Parameters	Data Bits: 7, 8; Stop Bits: 1, 2; Parity: N	one, Even, Odd, Space, Mark		
Parity	None, Even, Odd, Space, Mark			
Flow Control	RTS/CTS, DTR/DSR			
Baudrate	50 bps to 921.6 Kbps			
Software				
Operation Modes				
Utilities	MGate <sup>™</sup> Manager Suite for Windows 98	3, ME, NT, 2000, XP, 2003, Vista		
Smart Routing	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Serial Redirection			$\checkmark$	$\checkmark$
Priority Control				
Ethernet Protocol	CIP (PCCC) on Ethernet/IP	CIP (PCCC) on Ethernet/IP	CIP (PCCC) on Ethernet/IP	CIP (PCCC) on Ethernet/IP
Serial Protocol	DF1 Full-duplex	DF1 Full-duplex	DF1 Full-duplex	DF1 Full-duplex
Physical Characteristics				
Housing	Plastic	Plastic	Plastic	Plastic
Dimensions	29 x 89.2 x 118.5 mm	29 x 89.2 x 118.5 mm	29 x 89.2 x 118.5 mm	29 x 89.2 x 118.5 mm
Environmental Limits				
Operating Temperature	0 to 55°C or -40 to 75°C	0 to 55°C or -40 to 75°C	0 to 55°C or -40 to 75°C	0 to 55°C or -40 to 75°C
Operating Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH
Storage Temperature	-20 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C
Power Requirements	2010 00 0	2010 03 0	2010 03 0	2010 03 0
Input Voltage	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC
Power Connector	Terminal block	Terminal block	Terminal block	Terminal block
Regulatory Approvals				
EMC	CE (EN55022 Class A and EN55024), FC	CC Part 15 Subpart B Class A		
Safety	UL (UL60950-1), LVD (EN60950-1)			
Hazardous Location	UL/cUL Class 1 Division 2 Groups A, B,	C, D; ATEX Class 1 Zone 2		
Shock	IEC60068-2-27			
Freefall	IEC60068-2-23			
Vibration	IEC60068-2-6			
Marine				
EMS	EN61000-4-2 (ESD): Level 3 EN61000-4-3 (RS): Level 3 EN61000-4-3 (ET): Level 4 EN61000-4-4 (ET): Level 4 EN61000-4-6 (CS): Level 3 EN61000-4-6 (CS): Level 3 EN61000-4-12: Passed EN61000-4-12: Passed			
Reliability				
Warranty	5 years (see www.moxa.com/warranty)			
	, see (eee an anomaloon, manually)			

#### **PCI Express Serial Boards**



	CP-118EL	CP-168EL	CP-114EL	CP-114EL-I	CP-104EL	CP-102E	CP-102EL	CP-132EL	CP-132EL-I
Hardware									
Comm. Controller	MU860		16C550C compat	tible	MU860	16C550C compat	ible		
Bus	PCI Express x1								
Connector	VHDCI 68		DB44 female			DB9 male	DB25 female		
Serial Interface									
RS-232 Ports		8			4	2	2		
RS-422 Ports									
RS-422/485 Ports								2	2
RS-232/422/485 Ports	8		4	4					
Communication Parameters	Data Bits: 5, 6, 7,	, 8; Stop Bits: 1, 1.5	, 2; Parity: None, E	ven, Odd, Space, M	ark				
Flow Control	RTS/CTS, XON/X	OFF						XON/XOFF	
Baudrate	50 bps to 921.6 l	Kbps							
ESD Protection	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV
Optical Isolation				2 KV					2 KV
Driver Support									
Windows 9X/ME/NT									
Windows 2000	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows XP/2003/Vista x86/x64	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows 2008 x86/x64	V	$\checkmark$	$\checkmark$	$\checkmark$	V	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows CE 5.0	$\checkmark$	$\checkmark$			$\checkmark$				
Windows CE 6.0									
Windows XP Embedded	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
DOS	$\checkmark$				V				
Linux 2.4/2.6	$\checkmark$		$\checkmark$	$\checkmark$	V	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
FreeBSD 4/5	$\checkmark$	$\checkmark$			$\checkmark$				
QNX 4									
QNX 6	N	1	V		V	1		√	V
SCO Open Server 5/6	1	V	1	V	V		1	1	V
UnixWare 7	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Environmental Factors	04.4 400	00.7 (00	07.0 (00.0	07.0 400.0	00 7 100	05.0 400	07.0 (00.0	07.0 (00.0	07.0 404.0
Dimensions (mm)	64.4 x 132	62.7 x 102	67.2 x 136.9	67.2 x 136.9	62.7 x 100	85.0 x 100	67.2 x 102.0	67.2 x 102.0	67.2 x 104.0
Operating Temperature	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C
Operating Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH
Storage Temperature	-20 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C
Regulatory Approvals	2						2		
FCC, Part 15 Class	В	В	В	В	В	В	В	В	В
EN55022 Class B EN55022									
EN55022	 √	 √	 √	 √	 V	 √	 √	√	 V
EN61000-3-2	N N	N N	N √	V	N N	N V	V	N N	V
EN61000-3-3	V V	V	V	V	V	V	V V	V V	V
EN61000-6-2	V V	V	V	V	V	V	V V	V V	V
EN61000-6-4	· · · ·			v 			·	· · · · ·	·
IEC 61000-4-2	 √	 √	1	 √	 √	√	 √	1	 V
IEC 61000-4-3	1	V	1	V	V	V	V	1	V
EC 61000-4-4	V	V	V	V	V	V	V V	V	V
IEC 61000-4-5	V	V	V	V	V	Ň	V V	V	N.
IEC 61000-4-6	V	V	1	V	V	V	V.	1	V
IEC 61000-4-8	1	V	√	V	, √	V	1	1	√
IEC 61000-4-11	1	V	√	V	√	V	1	1	√
IEC 61000-4-11 (DIPS)									
ENV5204 Reliability									

#### **Universal PCI Serial Boards**



	C320Turbo/PCI	C218Turbo/PCI	CP-118U CP-118U-T	CP-138U CP-138U-T	CP-118U-I CP-118U-I-T	CP-138U-I CP-138U-I-T	CP-168U CP-168U-T	CP-114UL CP-114UL-T	CP-114UL-I CP-114UL-I-T	CP-104UL CP-104UL-T
Hardware									ľ.	
Comm. Controller	16C550C or com	patible	MU860							
Bus	32-bit Universal F									
Connector	DB25 female	DB62 female			DB78 female		DB62 female	DB44 female		
Serial Interface RS-232 Ports	32	0					0			4
RS-422 Ports		8					8			4
RS-422/485 Ports				8		8				
RS-232/422/485 Ports			8		8			4	4	
Communication Parameters	Data Bits: 5, 6, 7,	8; Stop Bits: 1, 1.5,	2; Parity: None,	Even, Odd, Spac	e, Mark					
Flow Control			RTS/CTS, XON	I/XOFF			RTS/CTS, XON	/XOFF		
Baudrate	50 bps to 460.8 Kbps	50 bps to 921.6 k	Kbps							
ESD Protection	400.0 Kbps	Optional	15 KV							
Optical Isolation		Optional			2 KV	2 KV	Optional		2 KV	
Driver Support										
Windows 9X/ME/NT	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
Windows 2000	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows XP/2003/Vista	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
x86/x64 Windows 2008 x86/x64	1	√	1	√	1	۰. ا	1	, √	, √	V V
Windows CE 5.0	N 	N	N N	V	N N	N V	N V	N V	V	N N
Windows CE 6.0			V	V	V	V	V	V	V	V
Windows XP Embedded			v v	V	v.	V.	√	√	V	, √
DOS	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
_inux 2.4/2.6	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
reeBSD 4/5			$\checkmark$							
QNX 4	$\checkmark$	V								
QNX 6 SCO Open Server 5/6		V V		V V				1		√ √
UnixWare 7	V V	V	V V	V		V V	√ √	1	V	V
Environmental Factors		,	· ·	N.	v	v	v	v	,	,
Dimensions (mm)	90 x 120	105 x 180	82 x 135	82 x 135	105 x 133	105 x 133	82 x 120	64.4 x 120	64.4 x 120	64.4 x 120
Operating Temperature	0 to 55°C	0 to 55°C	0 to 55°C, or -40 to 85°C							
Operating Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH
Storage Temperature	-20 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C	-20 to 85°C
Regulatory Approvals										
FCC, Part 15 Class	А	А	В	В	В	В	В	В	В	В
EN55022 Class B										
EN55022							$\checkmark$			V
EN55024 EN61000-3-2				V V		V V	√ √			√ √
EN61000-3-3			V V	V	V V	V	V	V V	V	V
EN61000-6-2			V	V	·		·			
EN61000-6-4										
EC 61000-4-2	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
EC 61000-4-3	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
EC 61000-4-4	$\checkmark$	V	1	V	V	V	V	V	V	$\checkmark$
EC 61000-4-5									V	
EC 61000-4-6 EC 61000-4-8		√		√ √						
EC 61000-4-8			N 							
EC 61000-4-11 (DIPS)		√	1	√	√	√	√	√	√	√
	$\checkmark$	V								
ENV5204	v	v								
ENV5204 Reliability	v	v								

#### **Universal PCI Serial Boards**

	CP-104JU	CP-134U	CP-134U-I		CP-112UL-I					
	CP-104JU CP-104JU-T	CP-1340 CP-134U-T	CP-134U-I CP-134U-I-T	CP-112UL CP-112UL-T	CP-112UL-I-T	CP-102U CP-102U-T	CP-102UL CP-102UL-T	CP-132UL CP-132UL-T	CP-132UL-I CP-132UL-I-T	POS-104UL POS-104UL-T
Hardware	<u>^</u>									<u>^</u>
Comm. Controller	MU860									
Bus	32-bit Universa	I PCI								
Connector	RJ45 x 4	DB44 female		DB25 female		DB9 male x 2	DB25 female			DB44 female
Serial Interface										
RS-232 Ports	4					2	2			4
RS-422 Ports										
RS-422/485 Ports		4	4					2	2	
RS-232/422/485 Ports				2	2					
Communication Parameters	Data Bits: 5, 6,	7, 8; Stop Bits: 1,	1.5, 2; Parity: Nor	ie, Even, Odd, Spa	ce, Mark					
Flow Control	RTS/CTS, XON/									
Baudrate	50 bps to 921.6									
ESD Protection	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV
Optical Isolation	13 KV	13 KV	2 KV	13 KV	2 KV	13 KV	13 KV	15 KV	2 KV	13 KV
			2 NV		2 NV				2 IV	
Driver Support Windows 9X/ME/NT										
Windows 2000	1			√	√	$\sqrt{1}$		V V		√ √
Windows XP/2003/Vista										
x86/x64	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows 2008 x86/x64	V	$\checkmark$		$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	V	V
Windows CE 5.0	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
Windows CE 6.0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows XP Embedded	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
DOS	$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Linux 2.4/2.6	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
FreeBSD 4/5	$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
QNX 4										
QNX 6	$\checkmark$	$\checkmark$					V	V	$\checkmark$	V
SCO Open Server 5/6	V	V	V	V	$\checkmark$	V		V	1	1
UnixWare 7	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Environmental Factors										
Dimensions (mm)	83 x 120 0 to 55°C, or	82.5 x 120 0 to 55°C, or	115 x 120 0 to 55°C, or	 0 to 55°C, or	 0 to 55°C, or	120 x 120 0 to 55°C, or	64.5 x 120	64.5 x 120 0 to 55°C, or	64.5 x 120 0 to 55°C, or	64.4 x 120 0 to 55°C, or
Operating Temperature Operating Humidity	-40 to 85°C	-40 to 85°C	-40 to 85°C	-40 to 85°C	-40 to 85°C	-40 to 85°C	0 to 55°C	-40 to 85°C	-40 to 85°C	-40 to 85°C
Storage Temperature	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C
	-20 10 65 6	-2010/05/0	-2010/05/0	-20 10 65 6	-20 10 65 0	-2010/05/0	-2010/05/0	-2010/05/0	-20 10 65 6	-20 10 85 6
Regulatory Approvals FCC, Part 15 Class	D	D	D	D	D	D	D	D	B	D
EN55022 Class B	B 	В	В	В	B 	B 	В	В	В	B 
EN55022 Glass B EN55022	 V	 V	 V	 V	√	 V	 V	 V	 V	√
EN55022	N V	N N	N N	N N	N V	N N	N N	N V	N V	N 
EN55024 EN61000-3-2	N N	N N	N √	N V	N V	N √	N N	V	N N	√
EN61000-3-2	N V	N N	N N	N N	N V	N N				N N
EN61000-3-3	N	N 	N 	N	N	N 	√	√	√	N N
EN61000-6-4										N N
IEC 61000-4-2	√	 V	√	√	√	√	 √	√	√	V V
IEC 61000-4-3	V	V	V	V	V	V	V	V	V	V
IEC 61000-4-4	V	N N	V V	V	V	V	V	V V	V	V
IEC 61000-4-5	V	V	V V	V	V	V	V	V V	V	V
IEC 61000-4-6	V	V	V V	1	V	V	V	V V	V	V
IEC 61000-4-8	V	V	V	V	V	V	V	V	1	V
IEC 61000-4-11								·		· · · · ·
IEC 61000-4-11 (DIPS)	$\checkmark$			$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$
ENV5204										
Reliability										
Warranty	5 years (see wo	vw.moxa.com/wai	ranty)							
manung	5 yours (300 W									

#### **Fiber Optic Serial Boards**

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CP-102UF-M-ST



CP-102UF-M-ST-T





CP-102UF-S-ST



CP-102UF-S-ST-T

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Hardware				
Bus	32-bit Universal PCI			
Optical Fiber Interface				
Mode	Multi-mode		Single-mode	
Fiber Connectors	ST type		, , , , , , , , , , , , , , , , , , ,	
Cable Requirements	50/125, 62.5/125, or 100/140 µm		8.3/125, 8.75/125, 9/125 or 10/140 μm	
Transmission Distance	Max. 5 km		Max. 40 km	
Wavelength	820 nm		1310 nm	
Tx Output	-5 dBm			
Rx Sensitivity	-20 dBm		-24 dBm	
Point-to-Point	Half or full duplex			
Transmission				
Ring Transmission Serial Interface	Half duplex			
	0	0	0	0
Number of Ports Communication	2	2	2	2
Parameters	Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; F	Parity: None, Even, Odd, Space, Mark		
Flow Control	X0N/X0FF			
Baudrate	50 bps to 921.6 Kbps			
Driver Support				
Windows 9X/ME/NT				
Windows 2000	$\checkmark$		$\checkmark$	$\checkmark$
Windows XP/2003/Vista	$\checkmark$	V	V	$\checkmark$
x86/x64				
Windows 2008 x86/x64		$\checkmark$		$\checkmark$
Windows CE 5.0	$\checkmark$	N	V	V
Windows CE 6.0		N	N	N
Windows XP Embedded		N	N	N
DOS		N	N	N
Linux 2.4/2.6	$\checkmark$	V	V	N
FreeBSD 4/5				
QNX 4	 V	 V	 V	 √
QNX 6 SCO Open Server 5/6	N V	N V	N V	N V
UnixWare 7	V	N V	N V	N N
	V	v	N	N
Environmental Factors Dimensions (mm)	64.4 x 100	64.4 × 100	64.4 v 100	64.4 × 100
Operating Temperature	64.4 x 120	64.4 x 120 -40 to 85°C	64.4 x 120	64.4 x 120
Operating Humidity	0 to 55°C		0 to 55°C	-40 to 85°C
Storage Temperature	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C
Regulatory Approvals	-20 10 03 0	-2010030	-2010030	-2010030
FCC, Part 15 Class	В	В	В	В
EN55022 Class B	N Sector	N N	D √	₽ √
EN55022 01835 D	·	N	·	·
EN55024	√ 	 V	 √	 √
EN61000-3-2	v V	V	V	V
EN61000-3-3	V V	V	V	v √
EN61000-6-2		·	·	
EN61000-6-4				
IEC 61000-4-2	√ 	 √	√ 	 √
IEC 61000-4-3	1	V	V	V V
IEC 61000-4-4	V	V	V	V
IEC 61000-4-5	, √	V		V.
IEC 61000-4-6	· √			√
IEC 61000-4-8	√	$\checkmark$		
IEC 61000-4-11				
IEC 61000-4-11 (DIPS)	$\checkmark$		$\checkmark$	$\checkmark$
ENV5204				
Reliability				
Warranty	5 years (see www.moxa.com/warranty)			
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#### **ISA Serial Boards**









	$\checkmark$					
	C320Turbo	C218Turbo	C168H	C168HS	C104H	C104HS
Hardware	1					
Comm. Controller	16C550C or compatible					
Bus	16-bit ISA					
Connector	DB25 female	DB62 female			DB37 female	
Serial Interface	DDLo Iomaio	DDOL Iomaio			DD01 Iomaio	
RS-232 Ports	32	8	8	8	4	4
RS-422 Ports		0	0	0		
RS-422/485 Ports						
RS-232/422/485 Ports						
Communication						
Parameters	Data Bits: 5, 6, 7, 8; Stop	o Bits: 1, 1.5, 2; Parity: No	ne, Even, Odd, Space, Mark			
Flow Control						
Baudrate	50 bps to 460.8 Kbps	50 bps to 921.6 Kbps	3			
ESD Protection		Optional		25 KV		25 KV
Optical Isolation		Optional	Optional	Optional		
Driver Support						
Windows 9X/ME/NT	$\checkmark$		V	$\checkmark$		
Windows 2000	V	V	V	$\checkmark$		
Windows XP/2003/Vista x86/x64	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows 2008 x86/x64	V	$\checkmark$			V	V
Windows CE 5.0						
Windows CE 6.0						
Windows XP Embedded			 √	 √	 √	√ √
DOS	√ 	~	2	V	V	2/
Linux 2.4/2.6	1	V	2	2	2	2/
FreeBSD 4/5		· · · ·	2	2	2	2/
QNX 4	 √	√	2	2	2	2/
QNX 6	V	V	1	V	V	2
SCO Open Server 5/6	V	V	1	2	2	1
UnixWare 7	1	1	1	V	V	V
Environmental Factors	N	v	Ŷ	V	v	N
	107150	105 100	00 157	00 157	00157	00157
Dimensions (mm)	107 x 158	105 x 180	93 x 157	93 x 157	83 x 157	83 x 157
Operating Temperature	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C
Operating Humidity Storage Temperature	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C	5 to 95% RH -20 to 85°C
	-2010 00 0	-2010.05 0	-2010.05 0	-2010.05 0	-2010.05-0	-2010 00 0
Regulatory Approvals						
FCC, Part 15 Class	A	A	A	A	A	A
EN55022 Class B						
EN55022			$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
EN55024						
EN61000-3-2						
EN61000-3-3						
EN61000-6-2						
EN61000-6-4						
IEC 61000-4-2	1	$\checkmark$	V		$\checkmark$	$\checkmark$
IEC 61000-4-3	$\checkmark$	$\checkmark$			V	$\checkmark$
IEC 61000-4-4	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
IEC 61000-4-5						
IEC 61000-4-6		$\checkmark$				
IEC 61000-4-8						
IEC 61000-4-11						

IEC 61000-4-11 (DIPS) ENV5204 Reliability Warranty

IEC 61000-4-11

5 years (see www.moxa.com/warranty)

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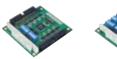
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#### **ISA Serial Boards**



HerdenicIdSSIC or computedBoarn Controlled165557Boarn Controlled<		CI-134	CI-134I	CI-134IS	CI-132	CI-132I	CI-132IS
CommendationInstructureInstructureInstructureInstructureConsider16 Hain (SA)16 Hain (SA)<	Hardware						
Bit is interminant interm		16C550C or compatible					
Serial national Discription of the series of the ser	Bus						
B3-22 Print B3-22 Print Ball Bits; 5, 6, 7, 8; Sup H H Ball Bits; 5, 6, 7, 8; Sup H H Ball Bits; 5, 7, 8; Sup H H H Ball Bits; 5, 7, 8; Sup H H H Ball Bits; 5, 7, 8; Sup H H H Ball Bits; 5, 7, 8; Sup H H Ball Bits; 5, 7, 8; Sup H H H Ball Bits; 5, 7, 8; Sup H H H Ball Bits; 5, 7, 8; Sup H H H Ball Bits; 5, 7, 8; Sup H<	Connector	DB37 female			DB9 male x 2		
B3-22 Print B3-22 Print Ball Bits; 5, 6, 7, 8; Sup H H Ball Bits; 5, 6, 7, 8; Sup H H Ball Bits; 5, 7, 8; Sup H H H Ball Bits; 5, 7, 8; Sup H H H Ball Bits; 5, 7, 8; Sup H H H Ball Bits; 5, 7, 8; Sup H H Ball Bits; 5, 7, 8; Sup H H H Ball Bits; 5, 7, 8; Sup H H H Ball Bits; 5, 7, 8; Sup H H H Ball Bits; 5, 7, 8; Sup H<	Serial Interface						
BR-42008 print•••••••••••••••••••••••••BR-22024288 print•• <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
BR-32042488 Profix BR-320422488 Profix BR-320422488 Profix BR-320422488 Profix BR-320422488 Profix49222							
BR3224385 pcin-nn-nn-nn-nn-nn-nParamate in Paramate in Parama		4	4	4	2	2	2
Parameter Parameter ParameterDesk 5, 7, 6, 300 (Hose, 7, 6, 500 (Hose, 7, 50, 500 (Hose, 7, 500 (Hose,							
Find prior 21.6 Kbg	Communication Parameters	Data Bits: 5, 6, 7, 8; Stop E	Bits: 1, 1.5, 2; Parity: None, Ev	ven, Odd, Space, Mark			
Bandra Burble 21.6 KtopsImage 25 KVImage 25 KVImage 25 KVImage 25 KVOptical IsolationImage 25 KVImage 25 KVImage 25 KVImage 25 KVOptical IsolationVVVVVWindows SXP Mode 30Image 25 KVImage 25 KVImage 25 KVImage 25 KVWindows S2000VImage 25 KVImage 25 KVImage 25 KVImage 25 KVWindows S2003Image 25 KVImage 25 KVImage 25 KVImage 25 KVImage 25 KVWindows S20 KVImage 25 KVImage 25 KVImage 25 KVImage 25 KVImage 25 KVWindows S20 KVImage 25 KVImage 25 KVImage 25 KVImage 25 KVImage 25 KVWindows S20 KVImage 25 KVImage 26 KVImage 25 KVImage 25 KVImage 25 KVWindows S20 KVImage 26 KVImage 26 KVImage 26 KVImage 26 KVImage 26 KVWindows S20 KVImage 26 KVImage 26 KVImage 26 KVImage 26 KVImage 26 KVWindows S20 KVImage 26 KVImage 26 KVImage 26 KVImage 26 KVImage 26 KVWindows S20 KVImage 26 KVImage 26 KVImage 26 KVImage 26 KVImage 26 KVWindows S20 KVImage 26 KVImage 26 KVImage 26 KVImage 26 KVImage 26 KVWindows S20 KVImage 26 KVImage 26 KVImage 26 KVImage 26 KVImage 26 KVWindows S20 KVImage 26 KVImage 26 KVImage 26 KVImage 26 KVImage 26 KVWindows S20 KV	Flow Control						
BDD ProtectionSFVSFVDeficial location2 KV2 KV2 KV2 KV2 KVDeficial location<		50 bps to 921.6 Kbps					
Optical Solution2 kV2 kV2 kVDrawSymmetry	ESD Protection			25 KV			25 KV
Mindows SAVINENTVVV <td>Optical Isolation</td> <td></td> <td>2 KV</td> <td></td> <td></td> <td>2 KV</td> <td></td>	Optical Isolation		2 KV			2 KV	
Mindows SAVINENTVVV <td>Driver Support</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Driver Support						
Windows 2000NNNNNWindows 2003 (\$\$M\$M\$NNNNNWindows 2003 (\$\$M\$M\$NNNNNWindows 2003 (\$\$M\$M\$NNNNNWindows 2003 (\$\$M\$M\$NNNNNWindows 2003 (\$\$M\$M\$NNNNNWindows 2004 (\$\$M\$M\$M\$)NNNNNWindows 2005 (\$\$M\$M\$)NNNNNUndows 2005 (\$\$M\$M\$)NNNNND0SNNNNNNND0SNNNNNNND0SNNNNNNNND0SNNNNNNNND0SNNNNNNNND0SNNNNNNNND0SNNNNNNNND0SNNNNNNNND0SNNNNNNNND0SNNNNNNNND0SNNNNNNNND0SNNNNNNNND0SNNNN <t< td=""><td></td><td></td><td><math>\checkmark</math></td><td><math>\checkmark</math></td><td></td><td></td><td></td></t<>			$\checkmark$	$\checkmark$			
Windpws RP2003/visit x86/64VVVVVVVWindpws CE 50							
Windows 2008 x86/x64 </td <td>Windows XP/2003/Vista</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Windows XP/2003/Vista						
Windows CE 5.0Windows XP Fembedie		N	2	N	7	2	2
Windows DE ELGWindows XP Enhadded\\\<							
Windows XP Embedded         V         V         V         V         V         V           DDS         V         V         V         V         V         V           DDS         V         V         V         V         V         V           DDS         V         V         V         V         V         V           Enux 24/26         V         V         V         V         V         V           FreeBDD /5         V         V         V         V         V         V         V           DNA /5         V         V         V         V         V         V         V           DNA /5         V         V         V         V         V         V         V           DNA /5         V         V         V         V         V         V         V           DNA /5         V         V         V         V         V         V         V           Disparsemprise         V         V         V         V         V         V         V         V         V         V         V         V         V         V         V         V         V							
DOS         V         V         V         V         V         V         V           LINUX 24.26         V         <			V	V		V	
Linux 2.4/2.6         N         N         N         N         N         N           Free8D 4/5         N         N         N         N         N         N           ONX 4         N         N         N         N         N         N           ONX 6         N         N         N         N         N         N           ONX 6         N         N         N         N         N         N           SCO Open Server 5/6         N         N         N         N         N         N           Divisions (nm)         85 x 160         10 x 180         10 x 180         N         N         N         N           Depending Firmparture         10 x 50°         0 to 55°C         0 to 55			V	V	V	J	V
FreedSD 4/5         N         N         N         N         N         N         N         N           DNX 6         N         N         N         N         N         N         N           SCD Open Server 5/6         N         N         N         N         N         N           SCD Open Server 5/6         N         N         N         N         N         N           SCD Open Server 5/6         N         N         N         N         N         N         N           Environmental Factor         N         N         N         N         N         N         N           Diversions (mm)         85 x 160         110 x 180         110 x 180         75 x 157         105 x 157         105 x 157           Operating Temperature         10 to 85°C         0 to 85°C         20 to 85°C         -20 to 85°C <td></td> <td></td> <td>V</td> <td>V</td> <td>J</td> <td>J</td> <td>V</td>			V	V	J	J	V
QNX 4         V         V         V         V         V         V           QNX 6         V         V         V         V         V         V         V           QNX 6         V         V         V         V         V         V         V           QONS 6         V         V         V         V         V         V         V           UnixWare 7         V         V         V         V         V         V         V           Environmental Eactors         T         V         V         V         V         V         V         V           Densitions (mm)         85 x 160         110 x 180         110 x 180         75 x 157         105 x 157         105 x 157           Operating Fumpriatur         0 to 55°C         20 to 85°C			V	V	V	J	V
QNX 6         I         I         I         I         I         I         I           SC0 Open Server 5/6         I			V	V	V	V	V
SC0 Open Server 5/6         I         I         I         I         I         I         I         I           UnixWar 7         V         V         V         V         V         V         V         V           Environmental Factors         UnixWar 7         V         V         V         V         V         V         V           Dimensions (MM)         85 x 160         110 x 180         110 x 180         75 x 157         105 x 157         105 x 157         00 to 55°C         0 to 55°C			V	V	V	V	V
UnixWare 7         V         V         V         V         V         V         V           Environmental Factors           Dimensions (mm)         85 × 160         110 × 180         75 × 157         105 × 157         0 to 557C           Operating Temperature         0 to 557C           Operating Temperature         -20 to 85°C         -20 t		V	V	V	V	V	V
Dimensions (nm)         85 x 160         110 x 180         110 x 180         75 x 157         105 x 157         105 x 157           Operating Temperature         0 to 55°C           Operating Humidity         5 to 95% RH	UnixWare 7	V	V	V	V	$\checkmark$	
Dimensions (nm)         85 x 160         110 x 180         110 x 180         75 x 157         105 x 157         105 x 157           Operating Temperature         0 to 55°C           Operating Humidity         5 to 95% RH	Environmental Factors						
Operating Temperature         0 to 55°C           Operating Humidity         5 to 95% RH         5 to 95% RH <t< td=""><td></td><td>85 x 160</td><td>110 x 180</td><td>110 x 180</td><td>75 x 157</td><td>105 x 157</td><td>105 x 157</td></t<>		85 x 160	110 x 180	110 x 180	75 x 157	105 x 157	105 x 157
Operating Humidity         5 to 95% RH           Storage Temperature         -20 to 85°C	. ,						
Storage Temperature         -20 to 85°C           Regulatory Approvals         FCC, Part 15 Class         B         B         B         B              EN55022         A         M         M         M         M         M         M         M           EN55024							
Regulatory Approvals           FCC, Part 15 Class         B         B         B              EN55022 Class B							
FCC, Part 15 Class         B         B               EN55022 Class B                 EN55022         \         \         \         \         \              EN55024                   EN50024							
EN55022 Class B                  EN55024		B	В	B			
EN55022         √         √         √         √         √         √         √           EN55024							
EN55024			V				
ENG1000-3-2                 ENG1000-3-3							
ENG1000-3-3                 ENG1000-6-2							
ENG1000-6-2                 ENG1000-6-4							
ENG1000-6-4                  IEC 61000-4-2         \lambda         <							
IEC 61000-4-2         V         V         V         V         V         V         V           IEC 61000-4-3         V <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
IEC 61000-4-3         V         V         V         V         V         V         V         V           IEC 61000-4-4         V         V         V         V         V         V         V         V           IEC 61000-4-5		$\checkmark$		$\checkmark$	V	$\checkmark$	$\checkmark$
IEC 61000-4-4         √         √         √         √         √         √         √         √           IEC 61000-4-5   <							
IEC 61000-4-5                IEC 61000-4-6           IEC 61000-4-8          IEC 61000-4-8          IEC 61000-4-8          IEC 61000-4-11         IEC 6100-4-11         IEC 6100				$\checkmark$			
IEC 61000-4-8							
IEC 61000-4-11	IEC 61000-4-6						
IEC 61000-4-11 (DIPS)	IEC 61000-4-8						
ENV5204 V V V V V	IEC 61000-4-11						
Reliability	IEC 61000-4-11 (DIPS)						
· ·	ENV5204	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
· ·	Reliability						
	Warranty	5 years (see www.moxa.co	om/warranty)				

#### **PC/104 Modules**









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	CA-108 CA-108-T	CA-114 CA-114-T	CA-134I CA-134I-T	CA-104 CA-104-T	CA-132 CA-132-T	CA-132I CA-132I-T
Hardware						
Comm. Controller	16C550C or compatible					
Bus	PC/104 bus					
Box Header Connector	40-pin	40-pin	40-pin	40-pin	20-pin	20-pin
Serial Interface						
RS-232 Ports	8			4		
RS-422 Ports						
RS-422/485 Ports			4		2	2
RS-232/422/485 Ports		4			2	
Communication						
Parameters		its: 1, 1.5, 2; Parity: None, Ev				
Flow Control						
Baudrate	50 bps to 921.6 Kbps				1	
ESD Protection	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV
Optical Isolation			2 KV			2 KV
Driver Support						
Windows 9X/ME/NT	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows 2000	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows XP/2003/Vista x86/x64	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows 2008 x86/x64						
Windows CE 5.0		$\checkmark$	$\checkmark$	$\checkmark$		
Windows CE 6.0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows XP Embedded	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
DOS		V	$\checkmark$	V	V	
Linux 2.4/2.6	$\checkmark$	V	$\checkmark$	V	$\checkmark$	V
FreeBSD 4/5						
QNX 4	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
QNX 6	V			V	$\checkmark$	
SCO Open Server 5/6						
UnixWare 7						
Environmental Factors						
Dimensions (mm)	90 x 96	90 x 96	90 x 96	90 x 96	90 x 96	90 x 96
Operating Temperature	0 to 55°C, or -40 to 85°C	0 to 55°C, or -40 to 85°C	0 to 55°C, or -40 to 85°C	0 to 55°C, or -40 to 85°C	0 to 55°C, or -40 to 85°C	0 to 55°C, or -40 to 85°C
Operating Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH
Storage Temperature	-40 to 55°C	-40 to 55°C	-40 to 55°C	-40 to 55°C	-40 to 55°C	-40 to 55°C
Regulatory Approvals	4010000	4010000	4010000	4010350	4010000	40 10 33 0
FCC, Part 15 Class EN55022 Class B	A 	A	A	A 	A 	Α
EN55022 Class B	 √	 √	 √	 √	 √	 √
EN55022	N V	N V	N	N V	N V	N V
	N V	N		N I		N
EN61000-3-2	N V	N		N	V	N
EN61000-3-3	,	N		N	,	N
EN61000-6-2		N				
EN61000-6-4		N		N		N
IEC 61000-4-2	V	N	V	N	N	N
IEC 61000-4-3		N	N	N	N	N
IEC 61000-4-4		N	V	N	N	N
IEC 61000-4-5		N		N	1	
IEC 61000-4-6	1	N	N	N	1	
IEC 61000-4-8	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
IEC 61000-4-11						
IEC 61000-4-11 (DIPS)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
ENV5204						
Reliability						
Warranty	5 years (see www.moxa.co	m/warranty)				

#### **PC/104-Plus Modules**







	CB-108 CB-108-T	CB-114 CB-114-T	CB-134I CB-134I-T
Hardware			
Comm. Controller	MU860 (16C550C compatible)		
Bus	PC/104-Plus bus		
Box Header Connector	40-pin	40-pin	40-pin
Serial Interface	o pin	o pin	- pin
	0		
RS-232 Ports RS-422 Ports	8		
RS-422/485 Ports			
RS-232/422/485 Ports		4	4
Communication			
Parameters	Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; Parity: None, Ev	/en, Odd, Space, Mark	
Flow Control			
Baudrate	50 bps to 921.6 Kbps		
ESD Protection	15 KV	15 KV	15 KV
Optical Isolation			2 KV
Driver Support			
Windows 9X/ME/NT			
Windows 2000	$\checkmark$	$\checkmark$	$\checkmark$
Windows XP/2003/Vista	1	√	$\checkmark$
x86/x64			
Windows 2008 x86/x64	$\checkmark$	$\checkmark$	$\checkmark$
Windows CE 5.0		$\checkmark$	$\checkmark$
Windows CE 6.0			$\checkmark$
Windows XP Embedded		$\checkmark$	$\checkmark$
DOS		$\checkmark$	$\checkmark$
Linux 2.4/2.6		$\checkmark$	$\checkmark$
FreeBSD 4/5			
QNX 4			
QNX 6	$\checkmark$	$\checkmark$	$\checkmark$
SCO Open Server 5/6			
UnixWare 7			
Environmental Factors			
Dimensions (mm)	90 x 96	90 x 96	90 x 96
Operating Temperature	0 to 55°C, or -40 to 85°C	0 to 55°C, or -40 to 85°C	0 to 55°C, or -40 to 85°C
Operating Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH
Storage Temperature	-40 to 55°C	-40 to 55°C	-40 to 55°C
Regulatory Approvals			
FCC, Part 15 Class	A	A	A
EN55022 Class B			
EN55022	$\checkmark$	$\checkmark$	$\checkmark$
EN55024	$\checkmark$	$\checkmark$	$\checkmark$
EN61000-3-2	$\checkmark$	$\checkmark$	$\checkmark$
EN61000-3-3	$\checkmark$	$\checkmark$	$\checkmark$
EN61000-6-2	$\checkmark$	$\checkmark$	$\checkmark$
EN61000-6-4	$\checkmark$	$\checkmark$	$\checkmark$
IEC 61000-4-2	$\checkmark$	$\checkmark$	$\checkmark$
IEC 61000-4-3	$\checkmark$	$\checkmark$	$\checkmark$
IEC 61000-4-4	$\checkmark$	$\checkmark$	$\checkmark$
IEC 61000-4-5	$\checkmark$	$\checkmark$	$\checkmark$
IEC 61000-4-6	$\checkmark$	$\checkmark$	$\checkmark$
IEC 61000-4-8	$\checkmark$	$\checkmark$	$\checkmark$
IEC 61000-4-11			
IEC 61000-4-11 (DIPS)	$\checkmark$	$\checkmark$	$\checkmark$
ENV5204			
Reliability			
Warranty	5 years (see www.moxa.com/warranty)		

#### **USB-to-Serial Converters**

	$\bigcirc$								
				1		0	e monthe		ALC: NO.
	UPort <sup>™</sup> 1110	UPort™ 1130	UPort™ 1150	UPort™ 1150I	UPort™ 1250	UPort™ 1250I	UPort™ 1410	UPort™ 1450	UPort™ 1450I
USB Interface	•	•	·	•				÷	
Compliance	USB 1.0/1.1 con	npliant, USB 2.0 com	npatible		USB 1.1/2.0 cor	npliant			
Connector	USB type A			USB type B					
Speed	12 Mbps (Full-S	peed USB)			480 Mbps (Hi-S	peed USB) and 12 N	/lbps (Full-Speed L	JSB)	
Serial Interface									
Number of Ports	1 x RS-232	1 x RS-422/485	1 x RS- 232/422/485	1 x RS- 232/422/485	2 x RS- 232/422/485	2 x RS- 232/422/485	4 x RS-232	4 x RS- 232/422/485	4 x RS- 232/422/485
Connector	DB9 male	DB9 male	DB9 male	DB9 male	DB9 male	DB9 male	DB9 male	DB9 male	DB9 male
Communication Parameters	Data Bits: 5, 6, 7	', 8; Stop Bits: 1, 1.5	, 2; Parity: None, I	Even, Odd, Space, M	ark				
Flow Control	Flow Control: RT	S/CTS, XON/XOFF							
FIFO	64 bytes	64 bytes	64 bytes	64 bytes	128 bytes	128 bytes	128 bytes	128 bytes	128 bytes
Baudrate Embedded ESD	50 bps to 921.6	Kbps							
Protection	15 KV								
Optical Isolation				2 KV		2 KV			2 KV
Driver Support	1		1						
Windows 98/ME	V	1	V	1					
Windows 2000	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows XP/2003 x86/ x64	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows Vista x86/x64	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows 2008 x86/x64									
WinCE 5.0/6.0	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Linux 2.4			$\checkmark$	$\checkmark$	$\checkmark$			V	
Linux 2.6 x86/x64	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
Physical Characteristics				CEOO ab aat mate	(1 mm) ID00 mm	te etien			
Housing Product Weight	ABS + PC 65 g			75 g	al (1 mm), IP30 pro 180 g	rection	720 g		
Packaged Weight	200 g			370 g	370 a	680 a	1320 g		
Dimensions (mm)	38.4 x 60 x 20			52 x 80 x 22	77 x 26 x 111	000 g	204 x 30 x 125		
Environmental Limits	001174007420			OE X OO X EE	TT X LO X TT		2017/00/2120		
Operating Temperature	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C	0 to 55°C
Operating Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH
Storage Temperature	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C
Regulatory Approvals									
IMI	FCC Part 15 Clas	s B, EN61000-6-4			FCC, Part 15 Cla	ss A, EN61000-6-4			
Safety					UL, CUL, TÜV				
EMS	EN55022 Class I EN55024, EN610 EN61000-4-4, El EN61000-6-2	3, 000-3-2, EN61000-3 N61000-4-5, EN610(	-3, EN61000-4-2, 00-4-6, EN61000-4	EN61000-4-3, 4-8, EN61000-4-11,	EN55022 Class / EN55024, EN61	000-3-2, EN61000-3	3-3, EN61000-4-2, 00-4-6, EN61000-4	EN61000-4-3, 4-8, EN61000-4-11,	
Power Requirements						_			
Power Consumption	30 mA @ 5 VDC	90 mA @ 5 VDC	77 mA @ 5 VDC	260 mA @ 5 VDC	360 mA @ 5 VDC	200 mA @ 12 VDC	290 mA @ 5 VDC	260 mA @ 12 VDC	360 mA @ 12 VDC
Reliabilty									
Warranty	5 years (see ww	w.moxa.com/warran	ty)						

#### **USB-to-Serial Converters**

	N. CHERT	AL CHERT						
	UPort™ 1610-8	UPort™ 1650-8	UPort™ 1610-16	UPort™ 1650-16	UPort™ 2210	UPort™ 2410	UPort™ 2230	UPort™ 2430
USB Interface	<u> </u>	1			1			
Compliance	USB 1.0/1.1/2.0 c	ompliant			USB 1.1/2.0 compl	iant		
Connector	USB type B							
Speed	480 Mbps (Hi-Spe	ed USB) and 12 Mbps	(Full-Speed USB)					
Serial Interface								
Number of Ports	8 x RS-232	8 x RS-232/422/485	16 x RS-232	16 x RS-232/422/485	2 x RS-232	4 x RS-232	2 x RS-422/485	4 x RS-422/485
Connector	DB9 male	DB9 male	DB9 male	DB9 male	DB9 male	DB9 male	DB9 male	DB9 male
Communication Parameters	Data Bits: 5, 6, 7,	8; Stop Bits: 1, 1.5, 2;	Parity: None, Even, Ode	d, Space, Mark				
low Control	RTS/CTS, XON/XC	)FF						
FIFO	128 bytes	128 bytes	128 bytes	128 bytes	16 bytes	16 bytes	16 bytes	16 bytes
Baudrate	50 bps to 921.6 K	bps						
Embedded ESD Protection	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV
Optical Isolation								
Driver Support								
Vindows 98/ME								
Vindows 2000	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Vindows XP/2003 x86/ 64	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Windows Vista x86/x64	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Vindows 2008 x86/x64					$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
VinCE 5.0/6.0	$\checkmark$	$\checkmark$						
inux 2.4	V	V		V	V	$\checkmark$		
inux 2.6 x86/x64	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Physical Characteristics								
lousing		(1 mm), IP30 protecti			Polycarbonate (PC			
Product Weight	835 g	835 g	2475 g	2475 g	120 g	210 g		
ackaged Weight	1440 g	1440 g	3440 g	3440 g	325 g	455 g		
limensions (mm)	204 x 44 x 125	204 x 44 x 125	440 x 45.5 x 198.1	440 x 45.5 x 198.1	70 x 35 x 120	80 x 35 x 185	70 x 35 x 120	80 x 35 x 185
invironmental Limits	0.45 5590	0.44 5590	0.4- 5590	0.44 5590	0.4- 5590	0 40 5590	0.4- 5580	0.4- 55%0
Operating Temperature Operating Humidity	0 to 55°C 5 to 95% RH	0 to 55°C 5 to 95% RH	0 to 55°C 5 to 95% RH	0 to 55°C 5 to 95% RH	0 to 55°C 5 to 95% RH	0 to 55°C 5 to 95% RH	0 to 55°C 5 to 95% RH	0 to 55°C 5 to 95% RH
Storage Temperature	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C
Regulatory Approvals	-2010700	-2010700	-2010700	-2010700	-2010700	-2010700	-2010700	-2010700
MI	FCC Part 15 Class	A ENG1000 6 4			FCC Part 15 Class	P ENG1000 6 4		
afety	UL, CUL, TÜV	A, EN01000-0-4				D, ENOTUUU-0-4		
MS	UL, IOU, IOU            EN55022 Class A, EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-6, EN61000-4-11, EN61000-6-2         EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-2, EN61000-4-2, EN61000-4-3, EN65002-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, EN61000-6-2							
ower Requirements								
Power Consumption	230 mA @ 12 VDC	340 mA @ 12 VDC	130 mA @ 100 VAC	150 mA @ 100 VAC	140 mA @ 5 VDC	240 mA @ 5 VDC		
Reliabilty								
Varrantv	E voore (coo waan	.moxa.com/warrantv)						

Industrial USB > USB-to-Serial Converters

#### **USB Hubs**



	UPort™ 404	UPort™ 407	UPort™ 404-T	UPort™ 407-T	UPort™ 204	UPort™ 207	
USB Interface						i .	
Compliance	USB 1.1/2.0 compliant						
Upstream USB Ports	1 (Type B)						
Downstream USB Ports	4 (Type A)	7 (Type A)	4 (Type A)	7 (Type A)	4 (Type A)	7 (Type A)	
Speed	480 Mbps (Hi-Speed USB)	and 12 Mbps (Full-Speed US	B)				
Supply Current	500 mA max. per channel						
Physical Characteristics							
Housing	Aluminum				Polycarbonate (PC)		
Dimensions (mm)	80 x 35 x 130	100 x 35 x 192	80 x 35 x 130	100 x 35 x 192	80 x 35 x 130	100 x 35 x 195	
Environmental Limits							
Operating Temperature	0 to 60°C	0 to 60°C	-40 to 85°C	-40 to 85°C	0 to 60°C	0 to 60°C	
Operating Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	
Storage Temperature	-20 to 75°C	-20 to 75°C	-40 to 85°C	-40 to 85°C	-20 to 75°C	-20 to 75°C	
Regulatory Approvals							
EMI	FCC, Part 15 Class A, EN61	000-6-4					
Safety	UL508, LVD						
EMS	EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61000-6-2						
Power Requirements							
Power Consumption	1300 mA @ 12 VDC	2300 mA @ 12 VDC	1300 mA @ 12 VDC	2300 mA @ 12 VDC	1210 mA@ 12 VDC	2170 mA @ 12 VDC	
Reliabilty							
Warranty	5 years (see www.moxa.co	m/warranty)					

#### **Chassis Media Converters**





	TRO 100 A0	TOE 140 M CO DM	
	TRC-190-AC TRC-190-DC	TCF-142-M-SC-RM TCF-142-M-ST-RM	TCF-142-S-SC-RM TCF-142-S-ST-RM
Optical Fiber Side			
Fiber Connector		SC or ST	SC or ST
Cables Requirements		50/125, 62.5/125, or 100/140 µm	8.3/125, 8.7/125, 9/125, or 10/125 μm
Transmission Distance		5 km	40 km
Wavelength		850 nm	1310 nm
Tx Output		> -5 dBm	> -5 dBm
Rx Sensitivity		-20 dBm	-25 dBm
Point-to-Point Transmission		Point-to-Point Transmission: Half-duplex or full-duplex	Point-to-Point Transmission: Half-duplex or full-duplex
RS-232/422/485 Side			
Connector		Terminal Block	
RS-232 Signals		TxD, RxD, SGND	
RS-422 Signals		TxD+, TxD-, RxD+, RxD-, SGND	
RS-485-4w Signals		TxD+, TxD-, RxD+, RxD-, SGND	
RS-485-2w Signals		Data+, Data-, SGND	
Baudrate		50 bps to 921.6 Kbps	
ESD Protection		15 KV	15 KV
Physical Characteristics			
Housing	SECC (1.2 mm)	SPCC	SPCC
Dimensions (mm)	440 x 260 x 77 mm	86.8 x 136.5 x 21 mm	86.8 x 136.5 x 21 mm
Weight	5.2 kg (11.4 lbs), with one power module installed		
Installation			
Number of Slots	19 slots in the front for slide-in modules, 2 slots in the back for power supply modules		
Environmental Limits			
Operating Temperature	0 to 60°C	0 to 60°C	0 to 60°C
Operating Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH
Storage Temperature	-20 to 75°C	-20 to 75°C	-20 to 75°C
Power Requirements			
Input Voltage	Universal 100 to 240 VAC (47 to 63 Hz)	12 VDC	12 VDC
Power Consumption	5.4 A @ 12 V (max. output) or 12 to 48 VDC	150 mA @ 12 V	150 mA @ 12 V
Regulatory Approvals			
CE	Class B	Class B	
FCC	Part 15 sub part B Class A	Part 15 sub part B Class A	
EMI	EN55022 1998, Class B		
EMS	EN61000-4-2 (ESD), Criteria A, Level 4 EN61000-4-3 (RS), Criteria A, Level 2 EN61000-4-4 (EFT), Criteria A, Level 3 EN61000-4-5 (Surge), Criteria A, Level 3 EN61000-4-8 (PFMF), Criteria A, Level 2 EN61000-4-8 (PFMF), Criteria A, Level 3 EN61000-4-11 (DIPS), Criteria A	EN61000-4-2 (ESD), Criteria A, Level 4 EN61000-4-3 (RS), Criteria A, Level 2 EN61000-4-4 (ETT), Criteria A, Level 3 EN61000-4-6 (Surge), Criteria A, Level 2 EN61000-4-6 (CS), Criteria A, Level 2 EN61000-4-8 (PFMF), Criteria A, Level 3	
Freefall		IEC 60068-2-32	
Reliability			
Warranty	5 years (see www.moxa.com/warranty)		

#### **Serial-to-Fiber Media Converters**

	ICF-1150-M-SC/ST ICF-1150-M-SC/ST-T	ICF-1150I-M-SC/ST ICF-1150I-M-SC/ST-T	ICF-1150-S-SC/ST ICF-1150-S-SC/ST-T	ICF-1150I-S-SC/ST ICF-1150I-S-SC/ST-T	TCF-142-M-SC/ST TCF-142-M-SC/ST-T	TCF-142-S-SC/ST TCF-142-S-SC/ST-T	TCF-90-M/S
Optical Fiber Side				•			
Fiber Connector	SC or ST	SC or ST	SC or ST		SC or ST	SC or ST	ST
Cables Requirements		8.7/125, 9/125, or 10/12 2.5/125, or 100/140 μm	25 μm				
Transmission Distance	Single-mode: 40 km Multi-mode: 5 km	2.3/123, 01 100/140 µm					
Wavelength	Single-mode: 1310 nm Multi-mode: 850 nm	1					
Tx Output	Single-mode: > -5 dBn Multi-mode: > -5 dBm						
Rx Sensitivity	Single-mode: -25 dBm Multi-mode: -20 dBm						
Point-to-Point Transmission	Half-duplex or full-dup	lex					
Multi-drop Transmission	Half-duplex, fiber ring						
Ring Transmission					Half-duplex		
RS-232 Side					·		
Connector							DB9 female
Signals							Tx, Rx, GND (Loop-back wiring: RTS to CTS.
							DTR to DSR and DCD)
Baudrate RS-232/422/485 Side							300 bps to 115.2 Kbps
Connector					Terminal Block		
RS-232 Signals	TxD, RxD, SGND				Torrinnar Block		
RS-422 Signals	TxD+, TxD-, RxD+, RxI	D-, SGND					
RS-485-4w Signals	TxD+, TxD-, RxD+, RxI	D-, SGND					
RS-485-2w Signals	Data+, Data-, SGND						
Baudrate	50 bps to 921.6 Kbps						
ESD Protection Isolation	15 KV for all signals 2 KV RMS isolation pe	r I/O port for 1 minuto					
Physical Characteristics	2 KV KIVIS ISUIALIUIT pe						
Housing	Aluminum (1 mm)						ABS + PC
Housing Dimensions (mm)	Aluminum (1 mm) 30.3 x 70 x 115				67 x 100 x 22 mm		ABS + PC 42 x 80 x 22 mm
Dimensions (mm)	Aluminum (1 mm) 30.3 x 70 x 115				67 x 100 x 22 mm		ABS + PC 42 x 80 x 22 mm
Dimensions (mm) Environmental Limits	30.3 x 70 x 115	°C			67 x 100 x 22 mm		42 x 80 x 22 mm
Dimensions (mm) Environmental Limits Operating Temperature	30.3 x 70 x 115 0 to 60°C or -40 to 85	°C			67 x 100 x 22 mm		42 x 80 x 22 mm 0 to 60°C
Dimensions (mm) Environmental Limits	30.3 x 70 x 115	°C			67 x 100 x 22 mm		42 x 80 x 22 mm
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH	°C			67 x 100 x 22 mm		42 x 80 x 22 mm 0 to 60°C 5 to 95% RH
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH	°C 			67 x 100 x 22 mm		42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power	30.3 x 70 x 115 0 to 60°C or -40 to 85' 5 to 95% RH -40 to 85°C						42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH -40 to 85°C  12 to 48 VDC				 12 to 48 VDC		42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage Power Consumption	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V				 12 to 48 VDC 140 mA @ 12 V		42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV				 12 to 48 VDC 140 mA @ 12 V 2 KV		42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage Power Consumption Burst Protection (EFT) Surge Protection Voltage Reversal	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V	 163 mA @ 12 V			 12 to 48 VDC 140 mA @ 12 V		42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage Power Consumption Burst Protection (EFT) Surge Protection	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV 2 KV	 163 mA @ 12 V			 12 to 48 VDC 140 mA @ 12 V 2 KV 2 KV Protects against V+/V		42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage Power Consumption Burst Protection Voltage Reversal Protection	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV 2 KV Protects against V+/V-	 163 mA @ 12 V			 12 to 48 VDC 140 mA @ 12 V 2 KV 2 KV		42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)  
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage Power Consumption Burst Protection Voltage Reversal Protection Over Current Protection	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV 2 KV Protects against V+/V-	 163 mA @ 12 V			 12 to 48 VDC 140 mA @ 12 V 2 KV 2 KV Protects against V+/V		42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)  
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage Power Consumption Burst Protection Voltage Reversal Protection Over Current Protection Regulatory Approvals	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV 2 KV Protects against V+/V- 1.1 A	 163 mA @ 12 V			 12 to 48 VDC 140 mA @ 12 V 2 KV 2 KV Protects against V+/V 1.1 A	- reversal	42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)  
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage Power Consumption Burst Protection (EFT) Surge Protection Voltage Reversal Protection Over Current Protection Regulatory Approvals CE FCC Safety	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV 2 KV Protects against V+/V- 1.1 A Class B Part 15 sub Class B UL 508	 163 mA @ 12 V			 12 to 48 VDC 140 mA @ 12 V 2 KV 2 KV Protects against V+/V 1.1 A  Part 15 Subclass B 	- reversal	42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)   Class B Class B Class B 
Dimensions (mm)         Environmental Limits         Operating Temperature         Operating Humidity         Storage Temperature         Power Requirements         Source of Input Power         Input Voltage         Power Consumption         Burst Protection (EFT)         Surge Protection         Voltage Reversal         Protection         CE         FCC         Safety         UL/CUL	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV 2 KV Protects against V+/V- 1.1 A Class B Part 15 sub Class B UL 508 	 163 mA @ 12 V reversal			 12 to 48 VDC 140 mA @ 12 V 2 KV 2 KV Protects against V+/V 1.1 A  Part 15 Subclass B  UL60950-1	- reversal	42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)   Class B Class B  
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage Power Consumption Burst Protection (EFT) Surge Protection Voltage Reversal Protection Over Current Protection Regulatory Approvals CE FCC Safety	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV 2 KV Protects against V+/V- 1.1 A Class B Part 15 sub Class B UL 508  EN55022 1998, Class I	 163 mA @ 12 V reversal			 12 to 48 VDC 140 mA @ 12 V 2 KV 2 KV Protects against V+/V 1.1 A  Part 15 Subclass B  UL60950-1 EN55022 1998, Class	- reversal   B	42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)   Class B Class B Class B 
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage Power Consumption Burst Protection (EFT) Surge Protection Voltage Reversal Protection Over Current Protection Regulatory Approvals CE FCC Safety UL/CUL EMI EMS	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV 2 KV Protects against V+/V- 1.1 A Class B Part 15 sub Class B UL 508  EN55022 1998, Class I EN61000-4-2 (ESD), C EN61000-4-4 (EFT), C EN61000-4-6 (CS), Crite EN61000-4-6 (CS), Crite EN61000-4-8 (EFM), Crite EN6100-4-8 (EFM), CRITE EN6100-4-	 163 mA @ 12 V 163 mA @ 12 V reversal Priteria A, Level 4 Criteria A, Level 3 Criteria A, Level 3			12 to 48 VDC 140 mA @ 12 V 2 KV 2 KV 2 KV Protects against V+/V 1.1 A Part 15 Subclass B UL60950-1 EN51002-42 (ESD), EN61000-4-2 (ESD), EN61000-4-2 (ESD), EN61000-4-8 (SF, C EN61000-4-8 (SF, C) EN6100-4-8 (	- reversal  B Criteria A, Level 3 riteria A, Level 2 , Criteria A, Level 3 , Criteria A, Level 3 riteria A, Level 3 riteria A, Level 3	42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)   Class B Class B Class B  
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage Power Consumption Burst Protection (EFT) Surge Protection Voltage Reversal Protection Over Current Protection Regulatory Approvals CE FCC Safety UL/CUL EMI EMS ATEX	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV 2 KV Protects against V+/V- 1.1 A Class B Part 15 sub Class B UL 508  EN55022 1998, Class B UL 508  EN51000-4-2 (ESD). C EN61000-4-3 (SUrg), Cr EN61000-4-4 (EFT), C), EN61000-4-8 (FMF), Class 1, Zone 2, EEx m	 163 mA @ 12 V reversal B criteria A, Level 4 tieria A, Level 3 criteria A, Level 5 C IIC (pending)			12 to 48 VDC 140 mA @ 12 V 2 KV 2 KV 2 KV Protects against V+/V 1.1 A Part 15 Subclass B UL60950-1 EN51000-4-2 (ESD), EN61000-4-2 (ESD), EN61000-4-5 (Surge) EN61000-4-5 (Surge) EN61000-4-8 (SFMF)	- reversal  B Criteria A, Level 3 riteria A, Level 3 , Criteria A, Level 2 , Criteria A, Level 3 riteria A, Level 1 Criteria A, Level 1 	42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)   Class B Class B Class B     
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage Power Consumption Burst Protection (EFT) Surge Protection Voltage Reversal Protection Over Current Protection Regulatory Approvals CE FCC Safety UL/CUL EMI EMS ATEX Hazardous Location	30.3 x 70 x 115 0 to 60°C or -40 to 85° 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV 2 KV Protects against V+/V- 1.1 A Class B Part 15 sub Class B UL 508  EN55022 1998, Class I EN61000-4-2 (ESD), CF EN61000-4-5 (Surge), EN61000-4-5 (Surge), EN61000-4-6 (SURG), EN61000-4-8 (PFMF), Class 1, Zone 2, EEX m UL/cUL Class 1, Div. 2	 163 mA @ 12 V 163 mA @ 12 V reversal Priteria A, Level 4 Criteria A, Level 3 Criteria A, Level 3			 12 to 48 VDC 140 mA @ 12 V 2 KV 2 KV Protects against V+/V 1.1 A  Part 15 Subclass B  UL60950-1 EN61000-4-2 (ESD), C EN61000-4-5 (Surge) EN61000-4-5 (SURG) EN61000-4-6 (SFMF)  EN61000-4-5 (SFMF) 	- reversal  B Criteria A, Level 3 riteria A, Level 2 , Criteria A, Level 3 , Criteria A, Level 3 riteria A, Level 3 riteria A, Level 3	42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)  Class B Class B Class B          
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage Power Consumption Burst Protection (EFT) Surge Protection Voltage Reversal Protection Over Current Protection Regulatory Approvals CE FCC Safety UL/CUL EMI EMS ATEX Hazardous Location TÚV	30.3 x 70 x 115 0 to 60°C or -40 to 85' 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV 2 KV Protects against V+/V- 1.1 A Class B Part 15 sub Class B UL 508  EN55022 1998, Class I EN61000-4-2 (ESD), C EN61000-4-3 (RS), Cr EN61000-4-5 (Surge), EN61000-4-5 (Surge), EN61000-4-6 (CS), Cri EN61000-4-5 (Surge), EN61000-4-8 (PMF), Class 1, Zone 2, EEx n UL/cUL Class 1, Div. 2 EN 60950-1	 163 mA @ 12 V reversal B criteria A, Level 4 tieria A, Level 3 criteria A, Level 5 C IIC (pending)			12 to 48 VDC 140 mA @ 12 V 2 KV 2 KV Protects against V+/V 1.1 A UL60950-1 EN55022 1998, Class EN61000-4-3 (RS), C EN61000-4-3 (RS), C EN61000-4-5 (Surge) EN6100-4-5 (Surg	- reversal  B Criteria A, Level 3 riteria A, Level 3 riteria A, Level 2 , Criteria A, Level 2 , Criteria A, Level 1  	42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)  Class B Class B Class B        -
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage Power Consumption Burst Protection (EFT) Surge Protection Voltage Reversal Protection Over Current Protection Regulatory Approvals CE FCC Safety UL/CUL EMI EMS ATEX Hazardous Location TÜV Freefall	30.3 x 70 x 115 0 to 60°C or -40 to 85' 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV 2 KV Protects against V+/V- 1.1 A Class B Part 15 sub Class B UL 508  EN55022 1998, Class I EN61000-4-3 (RS), Cr EN61000-4-3 (RS), Cr EN61000-4-4 (Surge), Cr EN61000-4-4 (Surge), Cr EN61000-4-6 (Surge), Cr EN61000-4-6 (Surge), Cr EN61000-4-6 (Surge), Cr EN61000-4-8 (RS), Cr EN6100-4-8 (RS), Cr	 163 mA @ 12 V reversal B criteria A, Level 4 tieria A, Level 3 criteria A, Level 5 C IIC (pending)			 12 to 48 VDC 140 mA @ 12 V 2 KV 2 KV Protects against V+/V 1.1 A  Part 15 Subclass B  UL60950-1 EN61000-4-2 (ESD), C EN61000-4-5 (Surge) EN61000-4-5 (SURG) EN61000-4-6 (SFMF)  EN61000-4-5 (SFMF) 	- reversal  B Criteria A, Level 3 riteria A, Level 3 , Criteria A, Level 2 , Criteria A, Level 3 riteria A, Level 1 Criteria A, Level 1 	42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)  Class B Class B Class B          
Dimensions (mm)         Environmental Limits         Operating Temperature         Operating Humidity         Storage Temperature         Power Requirements         Source of Input Power         Input Voltage         Power Consumption         Burst Protection (EFT)         Surge Protection         Voltage Reversal         Protection         Over Current Protection         Regulatory Approvals         CE         FCC         Safety         UL/CUL         EMI         EMS         ATEX         Hazardous Location         TÜV         Freefall         Water and Dust Proof	30.3 x 70 x 115 0 to 60°C or -40 to 85' 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV 2 KV Protects against V+/V- 1.1 A Class B Part 15 sub Class B UL 508  EN55022 1998, Class I EN61000-4-2 (ESD), C EN61000-4-3 (RS), Cr EN61000-4-5 (Surge), EN61000-4-5 (Surge), EN61000-4-6 (CS), Cri EN61000-4-5 (Surge), EN61000-4-8 (PMF), Class 1, Zone 2, EEx n UL/cUL Class 1, Div. 2 EN 60950-1	 163 mA @ 12 V reversal B criteria A, Level 4 tieria A, Level 3 criteria A, Level 5 C IIC (pending)			12 to 48 VDC 140 mA @ 12 V 2 KV 2 KV Protects against V+/V 1.1 A UL60950-1 EN55022 1998, Class EN61000-4-3 (RS), C EN61000-4-3 (RS), C EN61000-4-5 (Surge) EN6100-4-5 (Surg	- reversal  B Criteria A, Level 3 riteria A, Level 3 riteria A, Level 2 , Criteria A, Level 2 , Criteria A, Level 1  	42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)  Class B Class B Class B        -
Dimensions (mm) Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Source of Input Power Input Voltage Power Consumption Burst Protection (EFT) Surge Protection Voltage Reversal Protection Over Current Protection Regulatory Approvals CE FCC Safety UL/CUL EMI EMS ATEX Hazardous Location TÜV Freefall	30.3 x 70 x 115 0 to 60°C or -40 to 85' 5 to 95% RH -40 to 85°C  12 to 48 VDC 127 mA @ 12 V 4 KV 2 KV Protects against V+/V- 1.1 A Class B Part 15 sub Class B UL 508  EN55022 1998, Class I EN61000-4-3 (RS), Cr EN61000-4-3 (RS), Cr EN61000-4-4 (Surg), Cr EN61000-4-4 (Surg), Cr EN61000-4-6 (Surg), Cr EN61000-4-6 (Surg), Cr EN61000-4-6 (Surg), Cr EN61000-4-8 (RS), Cr EN6100-4-8 (RS), Cr EN610	 163 mA @ 12 V reversal B Friteria A, Level 4 Criteria A, Level 3 Teria A, Level 3 Criteria A, Level 4 Criteria A, Level 4 Criteria A, Level 4 Criteria A, Level 5 C IIC (pending) C IIC (pending)			12 to 48 VDC 140 mA @ 12 V 2 KV 2 KV Protects against V+/V 1.1 A UL60950-1 EN55022 1998, Class EN61000-4-3 (RS), C EN61000-4-3 (RS), C EN61000-4-5 (Surge) EN61000-4-5 (Surge) EN61000-4-5 (Surge) EN61000-4-5 (Surge) EN61000-4-8 (SFMF) EN60950-1	- reversal  B Criteria A, Level 3 riteria A, Level 3 riteria A, Level 2 , Criteria A, Level 2 , Criteria A, Level 1  	42 x 80 x 22 mm 0 to 60°C 5 to 95% RH -20 to 75°C RS-232 port (TxD signal) or power input jack 12 to 48 VDC 20 mA @ 5 V (with termination disabled)  Class B Class B Class B        -

#### **Serial Converters and Repeaters**



	TCC-100	TCC-100I		T00 001	T00 100	T00 100	TOO 00
	TCC-100-T	TCC-1001-T	TCC-80	TCC-80I	TCC-120	TCC-120I	TCC-82
RS-232 Side							
Connector	DB9 female		DB9 female				
Signals	TxD, RxD, RTS, CTS	, DTR, DSR, DCD, GND	(Loop-back wiring: F DSR and DCD)	, DTR, DSR, DCD, GND RTS to CTS, DTR to			
RS-422/485 Side			, ,				
Connector	Terminal Block		Terminal Block or DE	39 male			
Signals	(interface selected b RS-422: TxD+, TxD- RS-485-4w: TxD+, T RS-485-2w Signals:	, RxD+, RxD-, GND xD-, RxD+, RxD-, GND	(interface selected b RS-422: TxD+, TxD- RS-485-4w: TxD+, T RS-485-2w Signals:	, RxD+, RxD-, GND xD-, RxD+, RxD-, GND			
RS-485 Data Direction Control			ADDC®				
Serial Communication							
Connectors					Terminal Block on both (	ends	DB9 male/female
Baudrate	50 bps to 921.6 Kbp		50 bps to 921.6 Kbp		50 bps to 921.6 Kbps	51105	50 bps to 921.6 Kbps
Signals					RS-422/485-4w: TxD+, RS-485-2w: Data+, Data		RS-232: TxD, RxD, RTS, CTS (Loop-back wiring: DTR to DSR and DCD
RS-485 Data Direction Control					ADDC®		
Pull High Resistance Pull Low Resistance	150K ohm or 1K ohr	m (default)					
ESD Protection	15 KV		15 KV		15 KV for all signals		15 KV for all signals
Optical Isolation		2 KV		2.5 KV rms for 1 minute		2 KV for power and signal	4 KV for 1 minute
Physical Characteristics							
Housing	Aluminum		ABS + PC		Aluminum		ABS
Dimensions (mm)	67 x 100.4 x 22 mm		42 x 80 x 22 mm		67 x 100.4 x 22 mm		42 x 80 x 23.6 mm
Weight	148 ± 5 g		50 ± 5 g		148 ± 5 g		60 ± 5 g
Environmental Limits							
Operating Temperature	-20 to 60°C, or -40 t	to 85°C	0 to 60°C		-20 to 60°C		0 to 60°C
Operating Humidity	5 to 95% RH		5 to 95% RH		5 to 95% RH		5 to 95% RH
Storage Temperature	-20 to 85°C		-20 to 75°C		-20 to 85°C		-20 to 75°C
Power Requirements							
Source of Input Power	Power input jack		RS-232 port (TxD, R input jack	RTS, DTR) or power	RS-232 port (TxD signal	l) or power input jack	RS-232 port (TxD signal) or power inpu jack
nput Voltage	12 to 48 VDC		5 to 12 VDC		12 to 48 VDC		5 to 12 VDC
Power Consumption	300 mA @ 12 V	400 mA @ 12 V	10 mA @ 5 V (with termination disabled)	20 mA @ 5 V (with termination disabled)	98 mA @ 12 V, 1.18 W	234 mA @ 12 V, 2.81 W	20 mA @ 5 V
Connection							
Overload Current Protection							
Reverse Polarity Protec- tion							
Burst Protection (EFT)							
Surge Protection							
	Protects against V+/	V- reversal			Protects against V+/V- r	eversal	
		$\checkmark$			$\checkmark$	$\checkmark$	
Protection	$\checkmark$	V					
Protection Over Current Protection	$\checkmark$	v					
Protection Over Current Protection Regulatory Approvals	√ Class B	V	Class B		Class B		Class B
Voltage Reversal Protection Over Current Protection Regulatory Approvals CE ECC	,	N	Class B Class B		Class B Class B		Class B Class B

#### **Ethernet-to-Fiber Media Converters**

	IMC-101G INC-101G-T	IMC-101-M-SC/ST IMC-101-M-SC/ST-T	IMC-101-S-SC IMC-101-S-SC-T	IMC-101-S-SC-80 IMC-101-S-SC-80-T	IMC-21-M-SC/ST	IMC-21-S-SC
IEEE Standards					•	
IEEE 802.3		$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
IEEE 802.3u	$\checkmark$			$\checkmark$		$\checkmark$
IEEE 802.3ab	$\checkmark$					
IEEE 802.3z	$\checkmark$					
IEEE 802.3x					$\checkmark$	$\checkmark$
Interface						
RJ45 Ports	10/100/1000BaseT(X)	10/100BaseT(X)			10/100BaseT(X)	
Fiber Ports	Optional 1000BaseSX/LX/LHX/ZX (LC	100BaseFX (SC or ST co	nnectors)		100BaseFX (SC or ST)	
	connector)		,	(5'I	. ,	0.40014 ((1
LED Indicators	PWR1, PWR2, FAULT, 10/100M (TP port), 1000M (TP and Fiber port)	(Fiber port)	0/100M (TP port), 100M (	(Fiber port), FDX/GOL	Power, 10/100M (TP po FDX/COL (fiber port)	rt), 1001vi (tiber port),
	Port break alarm mask				TP port's 10/100M, Hal	/Full modes, and Force/
DIP Switches	Fault Pass-Through Fiber AN/Force	100BaseFX Full/Half dup	lex selection, port break a	ılarm mask	Auto modes, fiber conn Link Fault Pass-Throug	
	One relay output with current carrying				Ŭ	· /
Alarm Contact	capacity of 1 A @ 24 VDC	One relay output with cu	irrent carrying capacity of	1A @ 24 VDC		
Multi-mode Transmission	Distance					
	• 0 to 500 m, 850 nm (50/125 µm,					
1000BaseSX	400 MHz*km) • 0 to 275 m, 850 nm (62.5/125 µm,					
	200 MHz*km)					
	• 0 to 1100 m, 1310 nm (50/125 μm,					
1000BaseLX	800 MHz*km) • 0 to 550 m, 1310 nm (62.5/125 µm,					
	500 MHz*km)					
Single-mode Transmission	) Distance					
1000BaseLX	0 to 10 km, 1310 nm (9/125 µm, 3.5					
TOODASCEN	PS/(nm*km))					
1000BaseLHX	0 to 40 km, 1310 nm (9/125 µm, 3.5 PS/(nm*km))					
1000BaseZX	0 to 80 km, 1550 nm (9/125 μm, 19					
	PS/(nm*km))					
Physical Characteristics						
Housing	Metal (IP30)	Metal (IP30)			Plastic (IP30)	
Dimensions (mm)	53.6 x 135 x 105 mm	53.6 x 135 x 105 mm			25 x 109 x 97 mm	
Weight	630 g	630 g			125 g	
Installation	DIN-Rail mounting, wall mounting (with	optional kit)			DIN-Rail mounting	
Environmental Limits						
Operating Temperature	0 to 60°C or -40 to 75°C				0 to 60°C	
Operating Humidity	5 to 95% RH				5 to 95% RH	
Storage Temperature	-40 to 85°C				-40 to 70°C	
Power Requirements						
Input Voltage	24 VDC (12 to 45 VDC), redundant input	S			12 to 45 VDC, 18 to 30	VAC (47-63 Hz)
Input Current	0.11A (@ 24 V)	0.16A (@ 24 V)			0.15 A (@ 24 V)	
Connection	Removable terminal block				Removable 3-contact te	rminal block
Overload Current Protection	1.1 A				1.1 A	
Reverse Polarity Protec-						
tion	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Regulatory Approvals						
		UL508			UL508	
Safety	UL508	UL60950-1			UL60950-1	
		CSA C22.2 No. 60950-1 EN60950-1			CSA C22.2 No. 60950-1 EN60950-1	
EMI	FCC Part 15, CISPR (EN55022) class A				FCC Part 15, CISPR (EN	55022) class A
	EN61000-4-2 (ESD), level 3 EN61000-4-3 (RS), level 3					,
	EN61000-4-3 (RS), level 3 EN61000-4-4 (EFT), level 3				EN61000-4-2 (ESD) EN61000-4-3 (RS)	
EMS	EN61000-4-5 (Surge), level 3				EN61000-4-4 (EFT)	
	EN61000-4-6 (CS), level 3				EN61000-4-5 (Surge)	
	EN61000-4-8 EN61000-4-11				EN61000-4-6 (CS)	
Hazardous Location			2, Groups A, B, C, and D,			
		Ex nC IIC (IMC-101-M-S	ST, IMC-101-S-SC-80 pend	ding)		
Freefall	IEC60068-2-32				IEC60068-2-32	
Shock	IEC60068-2-27				IEC60068-2-27	
Vibration	IEC60068-2-6	DNIV OI			IEC60068-2-6	
Maritime		DNV, GL				
MTBF	500,000 hrs	401,000 hrs			353,000 hrs	
Reliability						
Warranty	5 years (see www.moxa.com/warranty)					

# **Industrial AP/Bridge/Client Solutions**

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	AWK-4222-T	AWK-4121-T	AWK-3222 AWK-3222-T	AWK-3121 AWK-3121-T
WLAN				
IEEE Standards	IEEE 802.11a/b/g/i, IEEE 802.3a/u, IEEE 8	02.3af		
Spread Spectrum and Modulation (typical)	DSSS with DBPSK, DQPSK, CCK     OFDM with BPSK, QPSK, 16QAM, 64QA     64QAM @ 54Mbps, 16QAM @ 24/36Mbp     CCK @ 11/5.5Mbps, DQPSK @ 2Mbps, D	M s, QPSK @ 12/18Mbps BSK@ 1Mbps		
Operating Channels (central frequency)	US: 2.412 to 2.462 GHz (11 channels); 5. EU: 2.412 to 2.472 GHz (13 channels); 5. JP: 2.412 to 2.472 GHz (13 channels, 0FI	18 to 5.24 GHz (4 channels) 18 to 5.24 GHz (4 channels) DM); 2.412 to 2.484 GHz (14 channels, DSS	S); 5.18 to 5.24 GHz (4 channels for W52)	
Number of RF modules	2	1	2	1
Interfaces				
Number of Antenna Connectors	4	2	4	2
Antenna Connector Type	N-type (female)	N-type (female)	RP-SMA (female)	RP-SMA (female)
10/100BaseT(X) LAN Port	2	1	2	1
RS-232 Console Port	1, waterproof RJ-45	1, waterproof RJ-45	1, RJ-45	1, RJ-45
LED Indicators	PWR, FAULT, STATE, WLAN1, WLAN2, LAN1, LAN2	PWR, FAULT, STATE, WLAN, LAN	PWR1, PWR2, PoE, FAULT, STATE, WLAN1, WLAN2, 10M, 100M	PWR1, PWR2, PoE, FAULT, STATE, signal strength, CLIENT MODE, BRIDGE MODE, WLAN, 10M, 100M
Alarm Contact (Digital Output)	1	1	1	1
Digital Inputs	2	2	2	2
DI/DO Connector Type	8-pin M12 (A-coding)		10-pin terminal block	
Physical Characteristics				
Housing	Metal (IP67)	Metal (IP67)	Metal (IP30)	Metal (IP30)
Weight	1.22 kg	1.2 kg	880 g	850 g
Dimensions	224 x 147.7 x 66.5 mm		62.05 x 135 x 105 mm	53.6 x 135 x 105 mm
Installation	Wall mounting (standard), DIN-Rail mounting (optional), pole mounting (optional)	Wall mounting (standard), DIN-Rail mounting (optional), pole mounting (optional)	DIN-Rail mounting (standard), Wall mounting (optional)	DIN-Rail mounting (standard), Wall mounting (optional)
Environmental Limits				
Operating Temperature	-40 to 75°C	-40 to 75°C	0 to 60°C or -40 to 75°C	0 to 60°C or -40 to 75°C
Operating Humidity	5% to 95%	5% to 95%	5% to 95%	5% to 95%
Storage Temperature	-40 to 85°C	-40 to 85°C	-40 to 85°C	-40 to 85°C
Power Requirements				
Input Voltage	Redundant dual power inputs (12 to 48 V	DC)		
Connector	5-pin M12 (A-coding)		10-pin terminal block	
IEEE 802.3af 48 VDC PoE	$\checkmark$	$\checkmark$		
Reverse Polarity Protec- tion	$\checkmark$	$\checkmark$		
Regulatory Approvals				
Radio	EN300 328, EN301 893, ARIB STD-33/T6	,		
EMC	EN301 489-1/-17, FCC Part 15, EN55022, EN55024	EN301 489-1/-17, FCC Part 15, EN55022, EN55024, IEC61000-6-2/-4	EN301 489-1/-17, FCC Part 15, EN55022, EN55024	EN301 489-1/-17, FCC Part 15, EN55022, EN55024, IEC61000-6-2/-4
Safety		EN60950-1, UL60950-1		EN60950-1, UL60950-1
Environment/EMC compliance		EN50155, EN50121-4		EN50155, EN50121-4
Reliability				
Warranty	5 years (see www.moxa.com/warranty)			

#### **Wireless Serial Device Servers**







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	NPort® W2004	NPort® W2150 Plus NPort® W2150 Plus-T	NPort® 2250 Plus NPort® 2250 Plus-T
WLAN Interface			
IEEE 802.11b/g	$\checkmark$		
IEEE 802.11a/g/b		$\checkmark$	$\checkmark$
Radio Frequency Type	DSSS/OFDM	DSSS/OFDM	DSSS/OFDM
WEP	64/128-bit data encryption		
WPA, WPA2, 802.11i	Enterprise mode and Pre-Share Key (PSK) mode		
Encryption		128-bit TKIP/AES-CCMP EAP-TLS, PEAP/GTC, PEAP/M EAP-TTLS/MSCHAP, EAP-TTLS/MSCHAPV2, EAP-TTLS EAP-MD5, LEAP	D5, PEAP/MSCHAPV2, EAP-TTLS/PAP, EAP-TTLS/CHAP, /EAP-MSCHAPV2, EAP-TTLS/EAP-GTC, EAP-TTLS/
Max. Transmission Rate	54 Mbps	54 Mbps	54 Mbps
Max. Transmission Distance	300 m	100 m	100 m
LAN Interface			
Ethernet Ports	1 x 10/100 Mbps (RJ45)	1 x 10/100 Mbps (RJ45)	1 x 10/100 Mbps (RJ45)
1.5 KV Magnetic Isolation Protection	$\checkmark$	$\checkmark$	$\checkmark$
Serial Interface			
Number of Ports	4	1	2
Serial Standards	RS-232/422/485	RS-232/422/485	RS-232/422/485
Connector	RJ45	DB9-M	DB9-M
Console Port	$\checkmark$		
Serial Communication Parameters	Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; Parity: None, Even, Odd, Space, Mark	Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; Parity: None, Even, Odd, Space, Mark	Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; Parity: None, Even, Odd, Space, Mark
Flow Control	RTS/CTS, XON/XOFF, DTR/DSR	RTS/CTS, XON/XOFF	RTS/CTS, XON/XOFF
Baudrate	50 bps to 460.8 Kbps	50 bps to 921.6 Kbps	50 bps to 921.6 Kbps
Serial Data Log	64 KB	64 KB	64 KB
Software			
Network Protocols	ICMP, IP, TCP, UDP, DHCP, Telnet, DNS, SNMP V1/V2c,	HTTP, SMTP, SNTP, SSH, HTTPS	
Configuration Options	Web Console, Serial Console, Telnet Console, Windows	Utility	
Management		SNMP MIB-II	SNMP MIB-II
Secure Configuration Options	HTTPS, SSH	HTTPS, SSH	HTTPS, SSH
Utilities	NPort® Search Utility and NPort® Windows Driver ma	nager	
Windows Real COM Drivers		x64, Vista x86/x64, 2008 x86/x64, Embedded CE 5.0/6.0, 2	
Fixed TTY Drivers		, SVR 4.2, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x,	HP-UX 11i
Linux Real TTY Drivers	Linux 2.4.x/2.6.x		
Physical Characteristics			
Housing	Metal (IP30)	Aluminum	
Weight	1730 g	780 g	
Dimensions	45.8 x 135 x 105 mm	77 x 111 x 26 mm	
Environmental Limits			
Operating Temperature	0 to 60°C	0 to 55°C or -40 to 75°C	
Operating Humidity	5% to 95%	5% to 95%	
Storage Temperature	-20 to 85°C	-40 to 85°C	
Power Requirements			
Input Voltage	12 to 48 VDC	12 to 48 VDC	
Power Consumption	685 mA @ 12 V, 340 mA @ 24 V, 185 mA @ 48 V	560 mA @ 12 V, 294 mA @ 24 V, 162 mA @ 48 V	
Regulatory Approvals			
Safety	UL (UL60950-1), TÜV (EN60950-1)	UL (UL60950-1), TUV (EN60950-1)	
Radio	CE (ETSI EN 300 328)	CE (ETSI EN 301 893, ETSI EN 300 328), ARIB RCR ST	D-33, ARIB STD-66
EMC	CE (EN55022 and EN55024 Class A, ETSI EN 301	CE (EN55022 and EN55024 Class A, ETSI EN 301 489-	17, ETSI EN 301 489-1)
EMI	489-17, ETSI EN 301 489-1) FCC (Part 15 Subpart B Class A, Subpart C)	FCC Part 15 (Subpart B Class A, Subpart C, Subpart E),	
		TOOT AT TO (SUDPATED GASS A, SUDPATE),	
Reliability		0505471	050.0041
MTBF	81,501 hrs	352,547 hrs	352,034 hrs
Warranty	5 years (see www.moxa.com/warranty)		

# **Cellular Routers and IP Gateways**

Standards         UMTS/HSDPA         GSM/GPRS         UMTS/HSDPA         GSM/GPRS/EDGE           fir/band Options         850/1900/2100 MH∠         850/900/180/1900 MH∠         850/900/180/1900 MH∠         850/900/180/1900 MH∠         050/180/1900 MH∠         050/180/190 MH∠         050/180/190/190/190/190/190/190/190/190/190/19	5004-HSDPA         5104-HSDPA         Oncension         Oncension         G3110-HSDP/           Cellular Interface         Standards         UMTS/HSDPA         GSM/GPRS         UMTS/HSDPA           Tri-band Options         850/1900/2100 MHz           850/1900/210           Quad-band Options         850/900/1800/1900 MHz         850/900/1800/1800/1900 MHz         850/900/1800/1800/1800/1800         Class 10         <	A G3150-HSDPA A 00 MHz Class 10 Class B Class B Class B Class B Class B Class B Class B Class B Class C  	GSM/GPRS/EDGE  Class 12 Class B Class 12 Class B	 Class 12
BRANK         UNTINEND         IDENTIFY         <	$\begin{array}{ c c c c c c } Standards & UMTS/HSDPA & GSW/GPRS & UMTS/HSDPA \\ \hline \begin{tabular}{ c c c c c } Tri-band Options & 850/1900/2100 MHz & 850/900/1800/1900 Mhz & 850/900/1800/1800 \\ \hline \begin{tabular}{ c c c c c c } Class 10 & Class 10 & & & Class 10 \\ \hline \begin{tabular}{ c c c } EDGE Terminal Device & Class B & Class B & & & Class 10 \\ \hline \begin{tabular}{ c c } EDGE Terminal Device & Class B & Class B & Class 10 & Class B & Class $	00 MHz 0/1900 MHz Class 10 Class B Class B Class B Class B CS1 to CS4  	Class 12 Class B Class 12 Class 12 Class B	 Class 12
Initial and any figure         BO1 900 2100 MH₂         mm         mm         Mm <t< td=""><td>Tri-band Options         850/1900/2100 MHz          850/1900/2100 MHz           Quad-band Options         850/1900/2100 MHz         850/1900/1800/1900 MHz         Class 10         Class 10<!--</td--><td>00 MHz 0/1900 MHz Class 10 Class B Class B Class B Class B CS1 to CS4  </td><td>Class 12 Class B Class 12 Class 12 Class B</td><td> Class 12</td></td></t<>	Tri-band Options         850/1900/2100 MHz          850/1900/2100 MHz           Quad-band Options         850/1900/2100 MHz         850/1900/1800/1900 MHz         Class 10         Class 10 </td <td>00 MHz 0/1900 MHz Class 10 Class B Class B Class B Class B CS1 to CS4  </td> <td>Class 12 Class B Class 12 Class 12 Class B</td> <td> Class 12</td>	00 MHz 0/1900 MHz Class 10 Class B Class B Class B Class B CS1 to CS4  	Class 12 Class B Class 12 Class 12 Class B	 Class 12
Bander March 1990         Book 0000 1990 Here         Each 0000 1990 Here         Each 0000 1990 Here         Book 0000 Here	Quad-band Options         850/900/1800/1900 MHz         850/900/1800/1900 MHz         850/900/1800/1900 MHz         850/900/1800           EDGE Multi-slot         Class 10         Class 10           Class 10         Class 10           EDGE Terminal Device         Class B         Class B         Class 10           Class 10         Class 10           EDGE Terminal Device         Class B         Class 10         Class 1	0/1900 MHz Class 10 Class B Class 10 Class B CS1 to CS4	Class 12 Class B Class 12 Class B	Class 12
NUMB MARANCE DESC Transit Device Desc S 10Obes 10Ob	EDGE Multi-slot     Class 10     Class 10       Class 10       EDGE Terminal Device     Class B     Class B       Class B       GPRS Multi-slot     Class 10     Class 10     Class 10     Class 10     Class 10       GPRS Multi-slot     Class 10     Class 10     Class 10     Class 10     Class 10       GPRS forminal Device     Class 10     Class 10     Class 10     Class 10     Class 10       GPRS Coding Schemes     CS1 to CS4       WAN Interface            Number of Ports     1     1     1     1        Isolation     1.5 KV Magnetic Isolation Protection          VAN Interface           LAN Interface           Solation     1.5 KV Magnetic Isolation Protection          Solation     1.5 KV Magnetic Isolation Protection     10/100M (RJ45)     10/100M (RJ45)     10/100M (RJ45)       Isolation     1.5 KV Magnetic Isolation Protection	Class 10 Class B Class 10 Class B CS1 to CS4	Class B Class 12 Class B	
BBC Tomain Lower BBC Tomas To Diss To <td>EDGE Terminal Device     Class B     Class B       Class B       GPRS Multi-slot     Class 10     Class 10     Class 10     Class 10     Class 10     Class 10       GPRS Terminal Device     Class B     Class B     Class B     Class B     Class B     Class B       GPRS Terminal Device     Class B     Class B     Class B     Class B     Class B     Class B       GPRS Terminal Device     Class B     Class B     Class B     Class B     Class B     Class B       GPRS Terminal Device     CS1 to CS4       GPRS Terminal Device     CS1 to CS4       GPRS Terminal Device     CS1 to CS4     CS1 to CS4     CS1 to CS4     CS1 to CS4       WAN Interface     1     1     1        LAN Interface     Interface         Number of Ports     4     4     4     1       Ethernet     10/100M (RJ45)     10/100M (RJ45)     10/100M (RJ45)       Isolation     1.5 KV Magnetic Isolation Protection        Stolation     1.5 KV Magnetic Isolation Protection    </td> <td>Class B Class 10 Class B CS1 to CS4</td> <td>Class B Class 12 Class B</td> <td></td>	EDGE Terminal Device     Class B     Class B       Class B       GPRS Multi-slot     Class 10     Class 10     Class 10     Class 10     Class 10     Class 10       GPRS Terminal Device     Class B     Class B     Class B     Class B     Class B     Class B       GPRS Terminal Device     Class B     Class B     Class B     Class B     Class B     Class B       GPRS Terminal Device     Class B     Class B     Class B     Class B     Class B     Class B       GPRS Terminal Device     CS1 to CS4       GPRS Terminal Device     CS1 to CS4       GPRS Terminal Device     CS1 to CS4     CS1 to CS4     CS1 to CS4     CS1 to CS4       WAN Interface     1     1     1        LAN Interface     Interface         Number of Ports     4     4     4     1       Ethernet     10/100M (RJ45)     10/100M (RJ45)     10/100M (RJ45)       Isolation     1.5 KV Magnetic Isolation Protection        Stolation     1.5 KV Magnetic Isolation Protection	Class B Class 10 Class B CS1 to CS4	Class B Class 12 Class B	
BRES Multiplication DERS 100Dias 10Dias 10Dias 10Dias 10Dias 10Dias 12Dias 12Dias 12DERS DefinitionDias 8Dias 10Dias 10<	GPRS Multi-slot         Class 10	Class 10 Class B CS1 to CS4	Class 12 Class B	Class B
BRADE 	SPRS Terminal Device         Class B         Class B <td>Class B CS1 to CS4 </td> <td>Class B</td> <td></td>	Class B CS1 to CS4 	Class B	
BRND controlCS1 to CS4CS1 to CS4 <td>Same         CS1 to CS4         CS1 to CS4<td>CS1 to CS4</td><td></td><td></td></td>	Same         CS1 to CS4         CS1 to CS4 <td>CS1 to CS4</td> <td></td> <td></td>	CS1 to CS4		
VAN Instruction         VAN         VAN Instruction	WAN Interface         1         1         1         1            Sumber of Ports         1         1         1             Ethernet         10/100M (RJ45)         10/100M (RJ45)         10/100M (RJ45)            solation         1.5 KV Magnetic Isolation Protection             AN Interface              solation         1.0/100M (RJ45)         10/100M (RJ45)         10/100M (RJ45)           solation         1.0/100M (RJ45)         10/100M (RJ45)         10/100M (RJ45)           solation         1.5 KV Magnetic Isolation Protection            Solation         1.5 KV Magnetic Isolation Protection            SMI Interface		03110034	
Junner of Partis         1         1         1	Number of Ports         1         1         1         1            Ethernet         10/100M (RJ45)         10/100M (RJ45)         10/100M (RJ45)         10/100M (RJ45)            solation         1.5 KV Magnetic Isolation Protection              AN Interface               Solation         1.5 KV Magnetic Isolation Protection              AN Interface               Solation         1.0/100M (RJ45)         10/100M (RJ45)         10/100M (RJ45)         10/100M (RJ45)           solation         1.5 KV Magnetic Isolation Protection              SMI Interface			65110654
Binner         10/100/ (R445)         10/100/ (R445)         10/100/ (R445)	Ethernet         10/100M (RJ45)         10/100M (RJ45)         10/100M (RJ45)         10/100M (RJ45)            solation         1.5 KV Magnetic Isolation Protection              AN Interface               Number of Ports         4         4         4         1           Ethernet         10/100M (RJ45)         10/100M (RJ45)         10/100M (RJ45)           solation         1.5 KV Magnetic Isolation Protection            Solation         1.5 KV Magnetic Isolation Protection			
Bit Bit Different         1   1         1	solation       1.5 KV Magnetic Isolation Protection          AN Interface          Number of Ports       4       4       4       1         Ethernet       10/100M (RJ45)       10/100M (RJ45)       10/100M (RJ45)       10/100M (RJ45)         solation       1.5 KV Magnetic Isolation Protection           SIM Interface			
number of Portma         4.         4.         4.         4.         1.	Number of Ports         4         4         4         4         1           Ethernet         10/100M (RJ45)         10/100M (RJ45)         10/100M (RJ45)         10/100M (RJ45)         10/100M (RJ45)           solation         1.5 KV Magnetic Isolation Protection         15         10/100M (RJ45)         10/100M (RJ45)         10/100M (RJ45)			
Henner Basical Basical Disk Vi Agordi (R445) Basical Disk Vi Agordi (R445)10/100M (R445) <td>thernet         10/100M (RJ45)         10/100M (RJ45)</td> <td></td> <td></td> <td></td>	thernet         10/100M (RJ45)			
Observation         1.5 V Magnetic lookation Protection           Minimate of SMs         2         2         2         1         1         1         1           Minimate of SMs         3 V	solation 1.5 KV Magnetic Isolation Protection SIM Interface	1	1	1
SNL Instruction         P	SIM Interface	45) 10/100M (RJ45)	10/100M (RJ45)	10/100M (RJ45)
animale of NMA 2 2 2 2 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1				
Mill Gend Michae each InstandsJVJVJVJVJVJVJVanabe of PortsRS-222RS-222/42/48RS-222/48RS-222/48RS-222/48RS-222/48RS-222/48RS-222/48RS-222/48RS-222/48RS-222/48RS-222/48RS-222/48RS-222/48RS-222/48RS-222/48 <t< td=""><td>lumber of SIMs 2 2 2 2 1</td><td></td><td></td><td></td></t<>	lumber of SIMs 2 2 2 2 1			
bits         bits <td></td> <td></td> <td></td> <td></td>				
Number Offorts           1		3 V	3 V	3 V
Band Bandarda				
Same prime          DB9-M         DB9-M        <				
Site VESD Protection           V       V       V       V       V         airal Parameters          V				
EVEN Prove EFUSAnge         ····         ····         Data Bits: 5, 6, 7, 8, Stop Bits: 1, 1.5, 2; Parity: None, Even, Oid, Space, Mark Gow Control         ····         Data Bits: 5, 6, 7, 8, Stop Bits: 1, 1.5, 2; Parity: None, Even, Oid, Space, Mark Gow Control         ····         Data Bits: 5, 6, 7, 8, Stop Bits: 1, 1.5, 2; Parity: None, Even, Oid, Space, Mark Gow Control         ····         Data Bits: 5, 6, 7, 8, Stop Bits: 1, 1.5, 2; Parity: None, Even, Oid, Space, Mark Gow Control         ····         Display Bits: 1, 1.5, 2; Parity: None, Even, Oid, Space, Mark Gow Control         ····         Display Bits: 1, 1.5, 2; Parity: None, Even, Oid, Space, Mark Gow Control         ····         Display Bits: 1, 1.5, 2; Parity: None, Even, Oid, Space, Mark Gow Control         ····         Display Bits: 1, 1.5, 2; Parity: None, Even, Oid, Space, Mark Gow Control           OtherBoo         ····         1				
sinal Parameteric           Data Bits: 6. 7. 8. Stop Bits: 1, 1.5.2; Parity: None, Even, Odd, Space, Mark I RTS/CTS, X04/X0FF           Or defined           Stop 105: 10, 52.16 Ktop          Stop 105: 10, 52.16 Ktop          I         1		N	N	N
Game Control            PTSCTS, XOUNORF            Sole participation           Baudrate            Sole participation         Sole participation          1		V 5 7 8: Ston Rite: 1 1 5 2: F	ν Parity: None Even Οι	v dd Snace Mark
Skaling 0 Interface 0 Interface Weight Mindows Application and Applied Indiana Applied Indiana Applied Indiana Applied Indiana Applied Indiana Applied Indiana 			anty. None, Even, et	id, opaco, mark
Of Interface         I         <				
Digital Inputs          2         2         2         2         2           OddWard         UDP/TCP, SNTP, ICMP, DDNS, DHCP/BOUTP, PPPOE, PPP, DNS Elay, HTTPS, SNTP, ARP, ST         CMAP, TCP/IP, UDP, DHCP, Talnet, DNS, SNMP, HTTP, SNTP, NTTP, SNTP, ARP, ST           OutlandFriewall         Local user-name and password         Local user-name and pa	/O Interface			
Software         UDP/TCP, SNTP, ICMP, DDNS, DHCP/BOOTP, PPPoE, PPP, DNS Relay, HTTPS, SNTP, ARP, SS           Velwork Protocols         UDP/TCP, SNTP, ICMP, DDNS, DHCP/BOOTP, PPPoE, PPP, DNS Relay, HTTPS, SNTP, ARP, SS           Soluter/Firewall         NAT, port forwarding         NAT, port forwarding           Withentication         Local user-name and password         Local user-name and password           Soluting         IP filtering         Port Construction         Accessible IP list           Soluting           Port Construction         Soluting Private MB, SNMP/ V1/22/v3, DDNS, IP Report, VeD/TelneV           Soluting            Soluting Private MB, SNMP/ V1/22/v3, DDNS, IP Report, VeD/TelneV           Soluting            Soluting Private MB, SNMP/V1/22/v3, DDNS, IP Report, VeD/TelneV           Mindows Real COM            Soluting Private MW, Windows NT, Windows NT, Windows 2000/XP/2003/Vista/ Server 2008, ME detilion           Mindows Real COM            Windows SP2000/Wistave 2008/R-2003/Vista/ Server 2008, ME detilion           Mindows Real COM            Universe server 2008, ME detilion            Mindows SP2003/Vistave Serve 2008 Set Gel Set Gel Set Gel Set Gel Set Gel Set Gel Set	Alarm Contacts 1 1 1	1	1	1
National Protocols         UDP/TCP: SNTP, ICMP, DDNS, DHCP/BOOTP, PPPoE, PPP, DNS Relay, HTTPS.         ICMP, TCP/IP, UDP, DHCP, Telnet, DNS, SNMP, HTTP, SNTP, HTTPS, SNTP, ARP, SS           Souter/Firewall         NAT, port forwarding, routing         NAT, port forwarding, routing         Local user-name and password         Local user-name and password           Security         IP filtering         Accessible IP its         Accessible IP its         Accessible IP its           Operation Modes           Real COM, Secure Real COM, TCP Server, Secure TCP Client, SECURE TCP Client, SECURE Modern, Virtual Mandern, SMS MMM Modern, SMS Tunnel MODERN, SMS PMR Philip MAR Tunnel MORT, SMS PMS Philip MAR TUNNER MODERN, SMS PMS Philip MS SMS PMS PMS MAR MINING MAR TWINNER MODERN TUNNER MODE	Digital Inputs 2 22	2	2	2
Determine Products         Tainet         Total of the second of the sec				
Soute/Firewall utilinetion         NAT, port forwarding		UDP, DHCP, Telnet, DNS, S	NMP, HTTP, SMTP, H	TTPS, SNTP, ARP, SS
Security         Local user-name and password         Local user-name and password           Security         IP filtering         IP filtering         Local user-name and password           Operation Modes          Real COM, Score Real COM, TCP Server, Secure TCP Server, TCP Client, Secure And Com, SMS Tunnel Anagement Options           Onfiguration and Anagement Options          Real COM, Score Real COM, TCP Server, Secure TCP Server, TCP Client, Secure And Com, SMS Tunnel Anagement Options           Mindows Server, Secure Real COM, TCP Server, Secure TCP Server, TCP Client, Secure And Com, SMS Tunnel Privated Mindows, SMS Tunnel Port, Web/Telnet/ Server, 2008, Windows SP (2007/Vista/Server-2008, Windows, SNT, Windows SP (2007/Vista/Server-2008, Windows, SNT, Windows SP (2007/Vista/Server-2008, Windows, SNT, Windows, SSSME, Windows, NT, Windows SP (2007/Vista/Server-2008, Windows, SNT, Windows SP (2007/Vista/Server-2008, Windows, SNT, Windows, SSSME, Windows, NT, Windows SP (2007/Vista/Server-2008, Windows, SNT, Windows, SSSME, Windows, NT, Windows SOR (SSME, Windows, NT, Windows, SOR (SSME, Windows, NT		varding		
opperation Modes          Real COM, Secure Real COM, Secure Real COM, TCP Sarver, Secure TCP Client, Secure TCP Client, UDP, RFC217, Ethernet Modem, Virtual Modem, SMS Tunnel         Configuration and Management Options         SMMP MIB-II, SMMP Private MIB, SMMP+riva2vA, DDNS, IP Report, Wet/Viet/Net/Viet/Mata/Sistesrver-2008 AV64 Edition         Viridows Real COM         SMMP MIB-II, SMMP Private MIB, SMMP+riva2vA, DDNS, IP Report, Wet/Viet/Viet/Viet/Viet/Viet/Viet/Viet/Vi		0		
Image         Image <th< td=""><td>Security IP filtering Accessible IP</td><td>list</td><td></td><td></td></th<>	Security IP filtering Accessible IP	list		
Configuration and Management Options         Image: Configuration and Mindows Strep 2003/Vista/Server 2008 x44 Edition           Julities           Provided for Windows Strep 2003/Vista/Server 2008 x44 Edition           Vindows Rel COM           Windows Strep 2003/Vista/Server 2008 x44 Edition           Vindows Rel COM           Windows Strep 2003/Vista/Server 2008 x44 Edition           Vindows Rel COM           Windows Strep 2003/Vista/Server 2008 x44 Edition           Check ITY Drivers            Centralized management Solution for accessing private IPS from the Internet           Physical Characteristics           Centralized management solution for accessing private IPS from the Internet           Operating Muminum (IP30)         Aluminum (IP30)         Aluminum (IP30)         Aluminum (IP30)         Aluminum (IP30)           Operating Emperature         -30 to 55°C	Deration Modes Real COM, Se	cure Real COM, TCP Server	, Secure TCP Server,	TCP Client, Secure
Management Options         Imagement Options         ImagementOptions         ImagementOptions	TOP Glient, OI			
Minutes         Minutes         Minutes         Minutes         Minutes         Minutes         Server-2008, Windows SP/2003/Vista/Server-2008 A64 Edition           Windows Rel COM Drivers             Windows SP/2003/Vista/Server 2008 x64 Edition           Drivers             Windows SP/2003/Vista/Server 2008 x64 Edition           Drivers            SC 0 Unix, SC 0 OpenServer 5, SC 00000/P/2003/Vista/Server 2008, Windows SP/2003/Vista/Server 5, SC 00000/P/2003/Vista/Server 2008, Windows SP/2003/Vista/Server 2008, Windows SP/2003/Vista/Server 5, SC 0000P/2003/Vista/Server 5, SC 000P/2003/Vista/Server 5, SC 0000P/2003/Vista/Server 5, SC 000P/2003/Vista/Server 5, SC 0000P/2003/Vista/Server 5, SC 0000P/2003/Vista/Server 5, SC 0000P/2003/Vista/Server 5, SC 000P/2003/Vista/Server 5, SC 000P/2003/Server 5, SC 000 S 55°C           Storage Tempe			V1/V2C/V3, DDIN5, IP	Report, web/ telliet/
Windows Real COM Drivers           Windows SP/30/ME, Windows ST, Windows ZD00 //P2003/Vista/Server 2008, M Windows SP/2003/Vista/Server 2008, Ad Edition           Inverse            SC0 Unix, SC0 OpenServer 6, UniXWare 7, SVR 4, 2, DNX 4, 25, DNX 6, Solaris 10, FreeBSD 5,	Jtilities Provided for V	Windows 95/98/ME, Window	ws NT, Windows 2000	D/XP/2003/Vista/
Trivers         Trivers <t< td=""><td></td><td></td><td></td><td></td></t<>				
Nach H Dinkord         Nach H Dinkord         Nach H Dinkord         ONX 6, Solaris 10, FreeBSD 6, FreeBSD 6           Jinux Real TTY Dirkors           Linux kernels 2.2, x, 2.4, x, 2.6, x         Linux kernels 2.2, x, 2.4, x, 2.6, x           Dirbordell Central           Centralized management solution for accessing private IPs from the Internet           Physical Characteristics           Centralized management solution for accessing private IPs from the Internet           Obusing         Aluminum (IP30)         Aluminum (IP30)         Aluminum (IP30)         Aluminum (IP30)         Aluminum (IP30)           Veight         505±5 g         645±5 g         505±5 g         440±5 g             Dimensions (mm)         158 x 103 x 34         160 x 103 x 50         158 x 103 x 50         158 x 103 x 34         160 x 103 x 50         28 x 126 x 93           Strating Humidity         5% to 95%				51d/3erver 2000,
Intur Real TTY Drivers            Linux Kenels 2.2, y. 2.4, y. 2.6, x            DnCell Central           Centralized managements olution for accessing private IPs from the Internet           Physical Characteristics           Centralized management solution for accessing private IPs from the Internet           Musing         Aluminum (IP30)         Aluminum (IP30)         Aluminum (IP30)         Aluminum (IP30)           Meight         505±5 g         645±5 g         505±5 g         645±5 g         440±5 g           Dimensions (mm)         158 x 103 x 34         160 x 103 x 50         158 x 103 x 34         160 x 103 x 50         28 x 126 x 93           Dimensions (mm)         158 x 103 x 34         160 x 103 x 50         28 x 126 x 93         0           Storage Temperature         -30 to 55°C         -30 to 55°C <t< td=""><td>ixed TTY Drivers SCO Unix, SC</td><td>O OpenServer 5, SCO Open</td><td>Server 6, UnixWare 7</td><td>, SVR4.2, QNX 4.25,</td></t<>	ixed TTY Drivers SCO Unix, SC	O OpenServer 5, SCO Open	Server 6, UnixWare 7	, SVR4.2, QNX 4.25,
On Cell Central           Centralized management solution for accessing private IPs from the Internet           Physical Characteristics         Huminum (IP30)         Aluminum (IP30)         Sign (Aluminu	unx 6, Solari			
Physical Characteristics         Construction of the second s			essing private IPs fro	m the Internet
Aluminum (IP30)         Aluminum (				
Weight         505±5 g         645±5 g         645±5 g         440±5 g           Dimensions (mm)         158 x 103 x 34         160 x 103 x 50         158 x 103 x 34         160 x 103 x 50         28 x 126 x 93           Environmental Limits         -30 to 55°C         -40 to 75°C         -40 to 75°C         -40 to		230)		
Dimensions (mm)         158 x 103 x 34         160 x 103 x 50         158 x 103 x 34         160 x 103 x 50         28 x 126 x 93           Environmental Limits         Second State         Seco				
Operating Temperature         -30 to 55°C         -40 to 75°C         -40 to 75°C<	Dimensions (mm) 158 x 103 x 34 160 x 103 x 50 158 x 103 x 34 160 x 103 x 50 28 x 126 x 93			
System         System<	invironmental Limits			
Storage Temperature         -40 to 75°C         -40 to 75°C <td></td> <td></td> <td>-30 to 55°C</td> <td>-30 to 55°C</td>			-30 to 55°C	-30 to 55°C
were Requirements           nput Voltage         12 to 48 VDC         12 to 48 VDC<				
nput Voltage         12 to 48 VDC         12 to 48 VDC<		-40 to 75°C	-40 to 75°C	-40 to 75°C
Instruction         1 TB, 1 power jack         2 TBs         1 TB, 1 power jack         2 TBs	ower Bequirements			
indecution         jack         2 TBS		12 to 48 VDC	12 to 48 VDC	12 to 48 VDC
legulatory Approvals           afety         UL (UL60950-1)           IF         FCC part22H, FCC PART24F, EN301 489-1, EN301 489-7, EN301 511           TCRB            V            V            MC         CE: EN55022 Class A / EN55024. FCC: PCC part 15 subpart B. Class A, EN61000-4-2 (ESD) Level 4, EN61000-4-3 (RS) Level 3, EN61000-4-4 (EFT) Level 4, EN61000-4-5 (Surge) Level 3, EN61000-4-8 Level 3, EN61000-4-12 Level 3           tellability	nput Voltage 12 to 48 VDC	2 TBs	2 TBs	2 TBs
Variety       UL (UL60950-1)         NF       FCC part22H, FCC PART24F, EN301 489-1, EN301 489-7, EN301 511         TCRB        V        V         MC       CE: EN55022 Class A / EN55024. FCC: FCC part 15 subpart B. Class A, EN61000-4-2 (ESD) Level 4, EN61000-4-3 (RS) Level 3, EN61000-4-4 (EFT) Level 4, EN61000-4-5 (SUrge) Level 3, EN61000-4-8 Level 3, EN61000-4-12 Level 3         Keliability        V        V	nput Voltage         12 to 48 VDC         12 to 48 VDC<			
RF         FCC part22H, FCC PART24F, EN301 489-1, EN301 489-7, EN301 511           PTCRB          V          V           CE: EN55022 Class A / EN55024. FCC: FCC part 15 subpart B. Class A, EN61000-4-2 (ESD) Level 4, EN61000-4-3 (RS) Level 3, EN61000-4-4 (EFT) Level 4, EN61000-4-5 (Surge) Level 3, EN61000-4-8 Level 3, EN61000-4-12 Level 3         V          V           Reliability          V          V          V	nput Voltage         12 to 48 VDC         12 to 48 VDC<			
PTCRB           V          V           CE:         EN55022 Class A / EN55024. FCC: FCC part 15 subpart B. Class A, EN61000-4-2 (ESD) Level 4, EN61000-4-3 (RS) Level 3, EN61000-4-4 (EFT) Level 4, EN61000-4-5 (Surge) Level 3, EN61000-4-8 Level 3, EN61000-4-12 Level 3         V          V           Reliability           V          V          V	nput Voltage         12 to 48 VDC         12 to 48 VDC<			
(Surge) Level 3, EN61000-4-8 Level 3, EN61000-4-12 Level 3 Reliability	nput Voltage         12 to 48 VDC         12 to 48 VDC<			V
Reliability	nput Voltage         12 to 48 VDC         12 to 48 VDC<			
	nput Voltage         12 to 48 VDC         12 to 48 VDC<		 EN61000-4-4 (EFT) L	
	nput Voltage         12 to 48 VDC         12 to 48 VDC<		 EN61000-4-4 (EFT) L	

#### **Cellular IP and GSM/GPRS Modems**

	-	-	-			
	OnCell G3111	OnCell 3151	OnCell 3211	OnCell 3251	OnCell G2100 OnCell G2100-T	OnCell G2150I
Cellular Interface						
Standards	GSM/GPRS	GSM/GPRS	GSM/GPRS	GSM/GPRS	GSM/GPRS	GSM/GPRS
Quad-band Options GPRS Multi-slot Class	850/900/1800/1900 MHz Class 10	Class 10	Class 10	Class 10	Class 10	Class 10
GPRS Terminal Device	Class B	Class B	Class B	Class B	Class B	Class B
Class GPRS Coding Schemes	CS1 to CS4	CS1 to CS4	CS1 to CS4	CS1 to CS4	CS1 to CS4	CS1 to CS4
LAN Interface			00110-001		00110-001	00110001
lumber of Ports	1	1	1	1		
Ethernet	10/100 Mbps (RJ45)	10/100 Mbps (RJ45)	10/100 Mbps (RJ45)	10/100 Mbps (RJ45)		
1.5 KV Magnetic solation Protection	V	$\checkmark$	$\checkmark$	$\checkmark$		
SIM Interface						
Number of SIMs	1	1	1	1	1	1
SIM Control Serial Interface	3 V	3 V	3 V	3 V	3 V	3 V
Number of Ports	1	1	2	2	1	1
Serial Standards	RS-232	RS-232/422/485	RS-232	RS-232/422/485	RS-232	RS-232/422/485
Connector	DB9-M	DB9-M	DB9-M	DB9-M	DB9-F	DB9-F and 5-pin TB
5 KV ESD Protection	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	√
.5 KV Optical Isolation						$\checkmark$
KV Power EFT/Surge	V	$\checkmark$	$\checkmark$	$\checkmark$		
Serial Communication Parameters	Data Bits: 5, 6, 7, 8; Stop	Bits: 1, 1.5, 2; Parity: None,	Even, Odd, Space, Mark		Data Bits: 7, 8; Stop Bits: 1 Odd, Space, Mark	, 2; Parity: None, Even,
low Control	RTS/CTS, XON/XOFF				RTS/CTS	
Baudrate	50 bps to 921.6 Kbps				300 bps to 115.2 Kbps	
Software Network Protocols		Telpat DNC CNMD LITTD				
Authentication	Local user-name and pass	, Telnet, DNS, SNMP, HTTP, I sword	niips, swip, swip, and			
Security	Accessible IP list	word				
Deration Modes		CP Client, UDP, SMS Tunnel,	Reverse Real COM			
Configuration and Management Options	SNMP MIB-II, v3, DDNS,	IP Report, Web/Telnet/Serial	Console, Serial Logging			
Jtilities	Provided for Windows 95	/98/ME, Windows NT, Windo	ows 2000/XP/2003/Vista/Serv	ver-2008, Windows XP/2003/		
Windows Real COM	Vista/Server-2008 x64 Windows 95/98/ME Windows	lows NT Windows 2000/XP	/2003/Vista/Server-2008, Wir	ndows XP/2003/Vista/		
Drivers	Server-2008 x64	10W3 N1, WINDOWS 2000/X1/	2003/ VISta/ Server-2000, Wir	100W3 XI /2003/ VISta/		
Management Software						
OnCell Central						
	Centralized management	solution for accessing privat	e IPs from the Internet			
Physical Characteristics	, , , , , , , , , , , , , , , , , , ,	solution for accessing privat	e IPs from the Internet			
Physical Characteristics lousing	Aluminum (IP30)	solution for accessing privat			ABS + PC (IP30)	
Physical Characteristics łousing Veight	Aluminum (IP30) 165±5 g	solution for accessing privat	e IPs from the Internet 185±5 g		ABS + PC (IP30) 150 ± 5 g	
Physical Characteristics Jousing Veight Dimensions	Aluminum (IP30)	solution for accessing privat			ABS + PC (IP30)	
Physical Characteristics Housing Weight Dimensions Environmental Limits	Aluminum (IP30) 165±5 g	-30 to 55°C		-30 to 55°C	ABS + PC (IP30) 150 ± 5 g	 0 to 55°C
Physical Characteristics Housing Weight Dimensions Environmental Limits Operating Temperature	Aluminum (IP30) 165±5 g 111 x 77 x 26 mm		185±5 g	-30 to 55°C 5% to 95%	ABS + PC (IP30) 150 ± 5 g 27 x 123 x 79 mm	
Physical Characteristics Housing Weight Dimensions Environmental Limits Operating Temperature Operating Humidity	Aluminum (IP30) 165±5 g 111 x 77 x 26 mm -30 to 55°C	-30 to 55°C	185±5 g -30 to 55°C		ABS + PC (IP30) 150 ± 5 g 27 x 123 x 79 mm 0 to 55°C or -30 to 75°C	0 to 55°C
Physical Characteristics Housing Weight Dimensions Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements	Aluminum (IP30) 165±5 g 111 x 77 x 26 mm -30 to 55°C 5% to 95% -40 to 75°C	-30 to 55°C 5% to 95% -40 to 75°C	185±5 g -30 to 55°C 5% to 95% -40 to 75°C	5% to 95% -40 to 75°C	ABS + PC (IP30) 150 ± 5 g 27 x 123 x 79 mm 0 to 55°C or -30 to 75°C 5% to 95% -40 to 75°C	0 to 55°C 5% to 95% -40 to 75°C
Physical Characteristics Housing Weight Dimensions Environmental Limits Diperating Temperature Operating Humidity Storage Temperature Power Requirements nput Voltage	Aluminum (IP30) 165±5 g 111 x 77 x 26 mm -30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC	-30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC	185±5 g -30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC	5% to 95% -40 to 75°C 12 to 48 VDC	ABS + PC (IP30) 150 ± 5 g 27 x 123 x 79 mm 0 to 55°C or -30 to 75°C 5% to 95% -40 to 75°C 12 to 48 VDC	0 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC
Physical Characteristics Housing Veight Dimensions invironmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements nput Voltage Connector	Aluminum (IP30) 165±5 g 111 x 77 x 26 mm -30 to 55°C 5% to 95% -40 to 75°C	-30 to 55°C 5% to 95% -40 to 75°C	185±5 g -30 to 55°C 5% to 95% -40 to 75°C	5% to 95% -40 to 75°C	ABS + PC (IP30) 150 ± 5 g 27 x 123 x 79 mm 0 to 55°C or -30 to 75°C 5% to 95% -40 to 75°C	0 to 55°C 5% to 95% -40 to 75°C
Physical Characteristics Housing Veight Dimensions Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements nput Voltage Connector Regulatory Approvals	Aluminum (IP30) 165±5 g 111 x 77 x 26 mm -30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC 1 power jack	-30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC	185±5 g -30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC	5% to 95% -40 to 75°C 12 to 48 VDC	ABS + PC (IP30) 150 ± 5 g 27 x 123 x 79 mm 0 to 55°C or -30 to 75°C 5% to 95% -40 to 75°C 12 to 48 VDC	0 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC
Physical Characteristics Housing Veight Dimensions Environmental Limits Operating Temperature Operating Humidity Storage Temperature Power Requirements Enput Voltage Connector Regulatory Approvals Safety	Aluminum (IP30) 165±5 g 111 x 77 x 26 mm -30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC 1 power jack UL (UL60950-1)	-30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC 1 power jack	185±5 g -30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC 1 power jack	5% to 95% -40 to 75°C 12 to 48 VDC	ABS + PC (IP30) 150 ± 5 g 27 x 123 x 79 mm 0 to 55°C or -30 to 75°C 5% to 95% -40 to 75°C	0 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC
Physical Characteristics Housing Weight Dimensions Environmental Limits Operating Temperature Operating Humidity Storage Temperature	Aluminum (IP30) 165±5 g 111 x 77 x 26 mm -30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC 1 power jack UL (UL60950-1) FCC part22H, FCC PART2- FCC part22H, FCC PART2-	-30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC 1 power jack 4F, EN301 489-1, EN301 485	185±5 g -30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC 1 power jack	5% to 95% -40 to 75°C 12 to 48 VDC	ABS + PC (IP30) 150 ± 5 g 27 x 123 x 79 mm 0 to 55°C or -30 to 75°C 5% to 95% -40 to 75°C	0 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC 1 power jack
Physical Characteristics lousing Veight Dimensions invironmental Limits Operating Temperature Operating Humidity storage Temperature Vower Requirements aput Voltage Connector Regulatory Approvals Safety	Aluminum (IP30) 165±5 g 111 x 77 x 26 mm -30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC 1 power jack UL (UL60950-1) FCC part22H, FCC PART2-	-30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC 1 power jack 4F, EN301 489-1, EN301 485	185±5 g -30 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC 1 power jack	5% to 95% -40 to 75°C 12 to 48 VDC	ABS + PC (IP30) 150 ± 5 g 27 x 123 x 79 mm 0 to 55°C or -30 to 75°C 5% to 95% -40 to 75°C 12 to 48 VDC 1 power jack CE (EN55022 Class A, EN5)	0 to 55°C 5% to 95% -40 to 75°C 12 to 48 VDC 1 power jack

# **Wallmount Computers**

	10.0	1100-11	1	11	1 Hanna	1	11.22-00-	71.82-00-	Tom	T- m
	V462-CE	V462-XPE	V464-CE	V464-XPE	V466-CE	V466-XPE	V468-CE	V468-XPE	V481-CE	V481-XPE
	V462-T-CE	V462-T-XPE	V464-T-CE	V464-T-XPE	V466-T-CE	V466-T-XPE	V468-T-CE	V468-T-XPE	V481-T-CE	V481-T-XPE
Computer CPU Speed	500 MHz	500 MHz	500 MHz	500 MHz	500 MHz	500 MHz	500 MHz	500 MHz	1 GHz	1 GHz
OS (pre-installed)	WinCE 6.0	WinXP Emb.	WinCE 6.0	WinXP Emb.	WinCE 6.0	WinXP Emb.	WinCE 6.0	WinXP Emb.	WinCE 5.0	WinXP Emb.
DRAM										
SRAM FSB	256 KB 400 MHz	256 KB 400 MHz	256 KB 400 MHz	256 KB 400 MHz	256 KB 400 MHz	256 KB 400 MHz	256 KB 400 MHz	256 KB 400 MHz	 400 MHz	 400 MHz
Flash										
System Memory	256 MB (1 GB max.)	512 MB (1 GB max.)	256 MB (1 GB max.)	512 MB (1 GB max.)	256 MB (1 GB max.)	512 MB (1 GB max.)	256 MB (1 GB max.)	512 MB (1 GB max.)	256 MB (1 GB max.)	512 MB (1 GB max.)
PCMCIA	√ 	V								
Expansion Bus USB Ports	PC/104-Plus on 4 (USB 2.0)	4 (USB 2.0)	4 (USB 2.0)	4 (USB 2.0)	4 (USB 2.0)	4 (USB 2.0)	4 (USB 2.0)	4 (USB 2.0)	2 (USB 2.0)	2 (USB 2.0)
Digital I/O	/		/				8 DIs, 8 DOs	8 DIs, 8 DOs		
Storage Ruilt in	OFC MD	1.00	OFC MD	1.00	OFC MD	1.00	OFC MD	1.00	OFC MD	1.00
Built-in CompactFlash Socket	256 MB √	1 GB √	256 MB √	1 GB √	256 MB √	1 GB √	256 MB √	1 GB √	256 MB √	1 GB √
SD Slot										
Other Peripherals	1 DC/0 interfe		lard DC/0 low-b	d and mours t	ugh V ture and					
KB/MS Audio		h speaker-out inte	dard PS/2 keyboar erface	u anu mouse thro	Jugit t-type cable					
Display										
Graphics Controller Mini Screen with Push	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Buttons										
LAN Interface										
10/100 Mbps Ethernet Ports	2	2	4	4	4	4	4	4	1	1
10/100/1000 Mbps Ethernet Ports									1	1
Switch Ports					8	8				
Controller Magnetic Isolation	Realtek RTL810									
	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV					
Protection		nont	1.0 10	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV
Serial Interface										
	2 (DB9 male) 	2 (DB9 male)	2 (DB9 male)	2 (DB9 male)	2 (DB9 male)	2 (DB9 male)	2 (DB9 male)	2 (DB9 male)	 	
Serial Interface RS-232 Ports RS-485 RS-232/422/485 Ports	2 (DB9 male)  2 (DB9-M)	2 (DB9 male)  2 (DB9-M)	2 (DB9 male)  2 (DB9-M)	2 (DB9 male)  2 (DB9-M)	2 (DB9 male)  2 (DB9-M)	2 (DB9 male)  2 (DB9-M)	2 (DB9 male)  2 (DB9-M)	2 (DB9 male)  2 (DB9-M)	  8 (DB9-M)	  8 (DB9-M)
Serial Interface RS-232 Ports RS-485	2 (DB9 male) 	2 (DB9 male) 	2 (DB9 male) 	2 (DB9 male) 	2 (DB9 male) 	2 (DB9 male) 	2 (DB9 male) 	2 (DB9 male) 		
Serial Interface RS-232 Ports RS-485 RS-232/422/485 Ports ESD Protection Digital Isolation Console Port	2 (DB9 male)  2 (DB9-M) 15 KV	2 (DB9 male)  2 (DB9-M) 15 KV	2 (DB9 male)  2 (DB9-M) 15 KV	2 (DB9 male)  2 (DB9-M) 15 KV	2 (DB9 male)  2 (DB9-M) 15 KV	2 (DB9 male)  2 (DB9-M) 15 KV	2 (DB9 male)  2 (DB9-M) 15 KV	2 (DB9 male)  2 (DB9-M) 15 KV	  8 (DB9-M) 15 KV	  8 (DB9-M) 15 KV
Serial Interface RS-232 Ports RS-485 RS-232/422/485 Ports ESD Protection Digital Isolation	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV 	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV 	2 (DB9 male)  2 (DB9-M) 15 KV 	2 (DB9 male)  2 (DB9-M) 15 KV 	 8 (DB9-M) 15 KV 	 8 (DB9-M) 15 KV 
Serial Interface RS-232 Ports RS-485 RS-232/422/485 Ports ESD Protection Digital Isolation Console Port Serial Communication	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV  7, 8; Stop Bits: 1,	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV 	2 (DB9 male)  2 (DB9-M) 15 KV 	2 (DB9 male)  2 (DB9-M) 15 KV 	 8 (DB9-M) 15 KV 	 8 (DB9-M) 15 KV 
Serial Interface RS-232 Ports RS-485 RS-232/422/485 Ports ESD Protection Digital Isolation Console Port Serial Communication Parameters Flow Control Baudrate	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, RTS/CTS, XON/	2 (DB9 male)  2 (DB9-M) 15 KV   7, 8; Stop Bits: 1, XOFF, ADDC®	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV   ne, Even, Odd, Sp	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV 	2 (DB9 male)  2 (DB9-M) 15 KV 	2 (DB9 male)  2 (DB9-M) 15 KV 	 8 (DB9-M) 15 KV 	 8 (DB9-M) 15 KV 
Serial Interface RS-232 Ports RS-485 RS-232/422/485 Ports ESD Protection Digital Isolation Console Port Serial Communication Parameters Flow Control	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, RTS/CTS, XON/	2 (DB9 male)  2 (DB9-M) 15 KV   7, 8; Stop Bits: 1, XOFF, ADDC®	2 (DB9 male)  2 (DB9-M) 15 KV   1.5, 2; Parity: Noi	2 (DB9 male)  2 (DB9-M) 15 KV   ne, Even, Odd, Sp	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV 	2 (DB9 male)  2 (DB9-M) 15 KV 	2 (DB9 male)  2 (DB9-M) 15 KV 	 8 (DB9-M) 15 KV 	 8 (DB9-M) 15 KV 
Serial Interface RS-232 Ports RS-485 RS-232/422/485 Ports ESD Protection Digital Isolation Console Port Serial Communication Parameters Flow Control Baudrate CANbus	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, RTS/CTS, XON/ 50 bps to 921.6	2 (DB9 male)  2 (DB9-M) 15 KV  7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Nor ard baudrates sup	2 (DB9 male)  2 (DB9-M) 15 KV   ne, Even, Odd, Sp oported)	2 (DB9 male)  2 (DB9-M) 15 KV   ace, Mark	2 (DB9 male)  2 (DB9-M) 15 KV 	2 (DB9 male)  2 (DB9-M) 15 KV 	2 (DB9 male)  2 (DB9-M) 15 KV 	 8 (DB9-M) 15 KV 	 8 (DB9-M) 15 KV 
Serial Interface RS-232 Ports RS-485 RS-232/422/485 Ports ESD Protection Digital Isolation Console Port Serial Communication Parameters Flow Control Baudrate CANbus LEDs System LAN	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, RTS/CTS, XON/ 50 bps to 921.6  Power, Battery, 10M, 100M	2 (DB9 male)  2 (DB9-M) 15 KV  7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage 10M, 100M	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Nor ard baudrates sup 	2 (DB9 male)  2 (DB9-M) 15 KV  re, Even, Odd, Sp poported)  10M, 100M	2 (DB9 male)  2 (DB9-M) 15 KV   ace, Mark	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV  	 8 (DB9-M) 15 KV   Power, Storage 10M, 100M	 8 (DB9-M) 15 KV   10M, 100M
Serial Interface RS-232 Ports RS-485 RS-232/422/485 Ports ESD Protection Digital Isolation Console Port Serial Communication Parameters Flow Control Baudrate CANbus LEDs System LAN Serial	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, RTS/CTS, XON/ 50 bps to 921.6 	2 (DB9 male)  2 (DB9-M) 15 KV  7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Noi ard baudrates sup 	2 (DB9 male)  2 (DB9-M) 15 KV  re, Even, Odd, Sp pported) 	2 (DB9 male)  2 (DB9-M) 15 KV   ace, Mark	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV  	 8 (DB9-M) 15 KV   Power, Storage	 8 (DB9-M) 15 KV  
Serial Interface RS-232 Ports RS-485 RS-232/422/485 Ports ESD Protection Digital Isolation Console Port Serial Communication Parameters Flow Control Baudrate CANbus LEDs System LAN	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, RTS/CTS, XON/ 50 bps to 921.6  Power, Battery, 10M, 100M	2 (DB9 male)  2 (DB9-M) 15 KV  7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage 10M, 100M	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Nor ard baudrates sup 	2 (DB9 male)  2 (DB9-M) 15 KV  re, Even, Odd, Sp poported)  10M, 100M	2 (DB9 male)  2 (DB9-M) 15 KV   ace, Mark	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV  	 8 (DB9-M) 15 KV   Power, Storage 10M, 100M	 8 (DB9-M) 15 KV   10M, 100M
Serial Interface RS-232 Ports RS-485 RS-232/422/485 Ports ESD Protection Digital Isolation Console Port Serial Communication Parameters Flow Control Baudrate CANbus LEDs System LAN Serial Physical Characteristics	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, RTS/CTS, XON/ 50 bps to 921.6  Power, Battery, 10M, 100M 	2 (DB9 male)  2 (DB9-M) 15 KV  7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage 10M, 100M 	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Noi ard baudrates sup  10M, 100M	2 (DB9 male)  2 (DB9-M) 15 KV  re, Even, Odd, Sp ported)  10M, 100M	2 (DB9 male)  2 (DB9-M) 15 KV  ace, Mark  10M, 100M, Sw 	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV  	 8 (DB9-M) 15 KV   Power, Storage 10M, 100M 	 8 (DB9-M) 15 KV   10M, 100M 
Serial Interface RS-232 Ports RS-485 RS-232/422/485 Ports ESD Protection Digital Isolation Console Port Serial Communication Parameters Flow Control Baudrate CANbus LEDs System LAN Serial Physical Characteristics Housing Weight Dimensions	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, RTS/CTS, XON/ 50 bps to 921.6  Power, Battery, 10M, 100M 	2 (DB9 male)  2 (DB9-M) 15 KV  7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage 10M, 100M  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Noi ard baudrates sup  10M, 100M 	2 (DB9 male)  2 (DB9-M) 15 KV  he, Even, Odd, Sp ported)  10M, 100M 	2 (DB9 male)  2 (DB9-M) 15 KV  ace, Mark  10M, 100M, Sw 	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum	2 (DB9 male)  2 (DB9-M) 15 KV   10M, 100M  Aluminum	 8 (DB9-M) 15 KV   Power, Storage 10M, 100M 	 8 (DB9-M) 15 KV   10M, 100M  Aluminum 2.2 kg
Serial Interface RS-232 Ports RS-485 RS-232/422/485 Ports ESD Protection Digital Isolation Console Port Serial Communication Parameters Flow Control Baudrate CANbus LEDs System LAN Serial Physical Characteristics Housing Weight Dimensions Mounting	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, RTS/CTS, XON/ 50 bps to 921.6  Power, Battery, 10M, 100M  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV  7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage 10M, 100M  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Noi ard baudrates sup  10M, 100M 	2 (DB9 male)  2 (DB9-M) 15 KV  he, Even, Odd, Sp ported)  10M, 100M 	2 (DB9 male)  2 (DB9-M) 15 KV  ace, Mark  10M, 100M, Sw 	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum	2 (DB9 male)  2 (DB9-M) 15 KV   10M, 100M  Aluminum	 8 (DB9-M) 15 KV   Power, Storage 10M, 100M  Aluminum 2.2 kg	 8 (DB9-M) 15 KV   10M, 100M  Aluminum 2.2 kg
Serial Interface         RS-232 Ports         RS-485         RS-232/422/485 Ports         ESD Protection         Digital Isolation         Console Port         Serial Communication Parameters         Flow Control         Baudrate         CANbus         LEDs         System         LAN         Serial         Physical Characteristics         Housing         Weight         Dimensions	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, RTS/CTS, XON/ 50 bps to 921.6  Power, Battery, 10M, 100M  Aluminum 1.32 kg 223 x 120.5 x 5 DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV   7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage 10M, 100M  Aluminum 1.32 kg 7 mm DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Nor ard baudrates sup  10M, 100M  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV  ne, Even, Odd, Sp ported)  10M, 100M  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV  ace, Mark  10M, 100M, Sw  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg	 8 (DB9-M) 15 KV   Power, Storage 10M, 100M  Aluminum 2.2 kg 225 x 140 x 70 DIN-Rail, wall	 8 (DB9-M) 15 KV   10M, 100M  Aluminum 2.2 kg mm DIN-Rail, wall
Serial Interface         RS-232 Ports         RS-485         RS-232/422/485 Ports         ESD Protection         Digital Isolation         Console Port         Serial Communication         Parameters         Flow Control         Baudrate         CANbus         LEDs         System         LAN         Serial         Physical Characteristics         Housing         Weight         Dimensions         Mounting         Environmental Limits         Operating Temperature         Operating Humidity	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, 7 RTS/CTS, XON/ 50 bps to 921.6  Power, Battery, 10M, 100M  Numinum 1.32 kg 223 x 120.5 x 5 DIN-Rail, wall -10 to 60°C or 5 to 95% RH	2 (DB9 male)  2 (DB9-M) 15 KV   7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage 10M, 100M  Aluminum 1.32 kg 7 mm DIN-Rail, wall 40 to 75°C	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Nor ard baudrates sup  10M, 100M  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV  ne, Even, Odd, Sp ported)  10M, 100M  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV  ace, Mark  10M, 100M, Sw  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg	 8 (DB9-M) 15 KV   Power, Storage 10M, 100M  Aluminum 2.2 kg 225 x 140 x 70	 8 (DB9-M) 15 KV   10M, 100M  Aluminum 2.2 kg mm DIN-Rail, wall
Serial Interface RS-232 Ports RS-485 RS-232/422/485 Ports ESD Protection Digital Isolation Console Port Serial Communication Parameters Flow Control Baudrate CANbus LEDs System LAN Serial Physical Characteristics Housing Weight Dimensions Mounting Environmental Limits Operating Temperature Operating Humidity Storage Temperature	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, RTS/CTS, XON/ 50 bps to 921.6  Power, Battery, 10M, 100M  Numinum 1.32 kg 223 x 120.5 x 5 DIN-Rail, wall -10 to 60°C or 5 to 95% RH -20 to 80°C or	2 (DB9 male)  2 (DB9-M) 15 KV   7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage 10M, 100M  Aluminum 1.32 kg 7 mm DIN-Rail, wall 40 to 75°C 40 to 85°C	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Nor ard baudrates sup  10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV  re, Even, Odd, Sp ported)  10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV  ace, Mark  10M, 100M, Sw  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV    /itch  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	 8 (DB9-M) 15 KV   Power, Storage 10M, 100M  Aluminum 2.2 kg 225 x 140 x 70 DIN-Rail, wall -10 to 60°C or -	 8 (DB9-M) 15 KV    10M, 100M  10M, 100M  2.2 kg mm DIN-Rail, wall 35 to 75°C
Serial Interface         RS-232 Ports         RS-485         RS-232/422/485 Ports         ESD Protection         Digital Isolation         Console Port         Serial Communication         Parameters         Flow Control         Baudrate         CANbus         LEDs         System         LAN         Serial         Physical Characteristics         Housing         Weight         Dimensions         Mounting         Environmental Limits         Operating Temperature         Operating Humidity	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, 7 RTS/CTS, XON/ 50 bps to 921.6  Power, Battery, 10M, 100M  Numinum 1.32 kg 223 x 120.5 x 5 DIN-Rail, wall -10 to 60°C or 5 to 95% RH	2 (DB9 male)  2 (DB9-M) 15 KV   7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage 10M, 100M  Aluminum 1.32 kg 7 mm DIN-Rail, wall 40 to 75°C	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Nor ard baudrates sup  10M, 100M  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV  ne, Even, Odd, Sp ported)  10M, 100M  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV  ace, Mark  10M, 100M, Sw  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV  	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg	 8 (DB9-M) 15 KV   Power, Storage 10M, 100M  Aluminum 2.2 kg 225 x 140 x 70 DIN-Rail, wall	 8 (DB9-M) 15 KV   10M, 100M  Aluminum 2.2 kg mm DIN-Rail, wall
Serial Interface         RS-232 Ports         RS-485         RS-232/422/485 Ports         ESD Protection         Digital Isolation         Console Port         Serial Communication         Parameters         Flow Control         Baudrate         CANbus         LEDs         System         LAN         Serial Characteristics         Housing         Weight         Dimensions         Mounting         Environmental Limits         Operating Temperature         Operating Humidity         Storage Temperature         Anti Vibration/Shock	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, RTS/CTS, XON/ 50 bps to 921.6  Power, Battery, 10M, 100M  Numinum 1.32 kg 223 x 120.5 x 5 DIN-Rail, wall -10 to 60°C or - 5 to 95% RH -20 to 80°C or -	2 (DB9 male)  2 (DB9-M) 15 KV   7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage 10M, 100M  Aluminum 1.32 kg 7 mm DIN-Rail, wall 40 to 75°C 40 to 85°C 	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Nor ard baudrates sup  10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV  re, Even, Odd, Sp ported)  10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV  ace, Mark  10M, 100M, Sw  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV    //tch  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	 8 (DB9-M) 15 KV   Power, Storage 10M, 100M  Aluminum 2.2 kg 225 x 140 x 70 DIN-Rail, wall -10 to 60°C or	 8 (DB9-M) 15 KV   10M, 100M  Aluminum 2.2 kg mm DIN-Rail, wall 35 to 75°C
Serial Interface         RS-232 Ports         RS-485         RS-232/422/485 Ports         ESD Protection         Digital Isolation         Console Port         Serial Communication         Parameters         Flow Control         Baudrate         CANbus         LEDs         System         LAN         Serial         Physical Characteristics         Housing         Weight         Dimensions         Mounting         Environmental Limits         Operating Temperature         Operating Temperature         Anti Vibration/Shock         Regulatory Approvals	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, 7 RTS/CTS, XON/ 50 bps to 921.6  Power, Battery, 10M, 100M  Power, Battery, 10M, 100M  Sto 92% RH -20 to 80°C or  CE (EN55022 C	2 (DB9 male)  2 (DB9-M) 15 KV   7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage 10M, 100M  Aluminum 1.32 kg 7 mm DIN-Rail, wall 40 to 75°C  40 to 85°C  lass A, EN61000-	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Noi ard baudrates sup  10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV  re, Even, Odd, Sp ported)  10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV  ace, Mark  10M, 100M, Sw  Aluminum 1.32 kg DIN-Rail, wall 	2 (DB9 male)  2 (DB9-M) 15 KV    //tch  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	 8 (DB9-M) 15 KV   Power, Storage 10M, 100M  Aluminum 2.2 kg 225 x 140 x 70 DIN-Rail, wall -10 to 60°C or -   S25.1) UL/cUL (UL609 C22.2 No. 6095	 8 (DB9-M) 15 KV    10M, 100M  10M, 100M  2.2 kg mm DIN-Rail, wall 35 to 75°C  50-1, CSA 0-1-03), LVD
Serial Interface         RS-232 Ports         RS-485         RS-232/422/485 Ports         ESD Protection         Digital Isolation         Console Port         Serial Communication         Parameters         Flow Control         Baudrate         CANbus         LEDs         System         LAN         Serial         Physical Characteristics         Housing         Weight         Dimensions         Mounting         Environmental Limits         Operating Temperature         Operating Temperature         Anti Vibration/Shock         Regulatory Approvals         EMC	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, 7 RTS/CTS, XON/ 50 bps to 921.6  Power, Battery, 10M, 100M  Power, Battery, 10M, 100M  Sto 92% RH -20 to 80°C or  CE (EN55022 C	2 (DB9 male)  2 (DB9-M) 15 KV   7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage 10M, 100M  Aluminum 1.32 kg 7 mm DIN-Rail, wall 40 to 75°C  40 to 85°C  lass A, EN61000-	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Nor ard baudrates sup  10M, 100M  Aluminum 1.32 kg DIN-Rail, wall  3-2 Class A, EN61 No. 60950-1-03),	2 (DB9 male)  2 (DB9-M) 15 KV  re, Even, Odd, Sp ported)  10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV  ace, Mark  10M, 100M, Sw  Aluminum 1.32 kg DIN-Rail, wall 	2 (DB9 male)  2 (DB9-M) 15 KV    //tch  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	 8 (DB9-M) 15 KV   Power, Storage 10M, 100M  Aluminum 2.2 kg 225 x 140 x 70 DIN-Rail, wall -10 to 60°C or  	 8 (DB9-M) 15 KV    10M, 100M  10M, 100M  2.2 kg mm DIN-Rail, wall 35 to 75°C  50-1, CSA 0-1-03), LVD
Serial Interface         RS-232 Ports         RS-485         RS-232/422/485 Ports         ESD Protection         Digital Isolation         Console Port         Serial Communication         Parameters         Flow Control         Baudrate         CANbus         LEDs         System         LAN         Serial         Physical Characteristics         Housing         Weight         Dimensions         Mounting         Environmental Limits         Operating Temperature         Operating Temperature         Anti Vibration/Shock         Regulatory Approvals         EMC         Safety	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, RTS/CTS, XON/ 50 bps to 921.6  Power, Battery, 10M, 100M  Aluminum 1.32 kg 223 x 120.5 x 5 DIN-Rail, wall -10 to 60°C or 5 to 95% RH -20 to 80°C or  CE (EN55022 C UL/cUL (UL609	2 (DB9 male)  2 (DB9-M) 15 KV  7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage 10M, 100M  Aluminum 1.32 kg 7 mm DIN-Rail, wall 40 to 75°C 40 to 85°C  so, 1, CSA C22.2	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Noi ard baudrates sup  10M, 100M  Aluminum 1.32 kg DIN-Rail, wall 	2 (DB9 male)  2 (DB9-M) 15 KV  re, Even, Odd, Sp ported)  10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV  ace, Mark  10M, 100M, Sw  Aluminum 1.32 kg DIN-Rail, wall 	2 (DB9 male)  2 (DB9-M) 15 KV    //tch  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	 8 (DB9-M) 15 KV   Power, Storage 10M, 100M  Aluminum 2.2 kg 225 x 140 x 70 DIN-Rail, wall -10 to 60°C or -   S25.1) UL/cUL (UL609 C22.2 No. 6095	 8 (DB9-M) 15 KV    10M, 100M  10M, 100M  2.2 kg mm DIN-Rail, wall 35 to 75°C  50-1, CSA 0-1-03), LVD
Serial Interface         RS-232 Ports         RS-485         RS-232/422/485 Ports         ESD Protection         Digital Isolation         Console Port         Serial Communication         Parameters         Flow Control         Baudrate         CANbus         LEDs         System         LAN         Serial         Physical Characteristics         Housing         Weight         Dimensions         Mounting         Environmental Limits         Operating Temperature         Operating Temperature         Anti Vibration/Shock         Regulatory Approvals         EMC         Safety         Green Product	2 (DB9 male)  2 (DB9-M) 15 KV  Data Bits: 5, 6, 7 RTS/CTS, XON/ 50 bps to 921.6  Power, Battery, 10M, 100M  Power, Battery, 10M, 100M  223 x 120.5 x 5 DIN-Rail, wall -10 to 60°C or 5 to 95% RH -20 to 80°C or  CE (EN55022 C UL/cUL (UL609 	2 (DB9 male)  2 (DB9-M) 15 KV  7, 8; Stop Bits: 1, XOFF, ADDC® Kbps (non-stand  Storage 10M, 100M  Aluminum 1.32 kg 7 mm DIN-Rail, wall 40 to 75°C 40 to 85°C  so, 1, CSA C22.2	2 (DB9 male)  2 (DB9-M) 15 KV  1.5, 2; Parity: Nor ard baudrates sup  10M, 100M  Aluminum 1.32 kg DIN-Rail, wall  3-2 Class A, EN61 No. 60950-1-03), ROHS, WEEE √	2 (DB9 male)  2 (DB9-M) 15 KV  re, Even, Odd, Sp ported)  10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV  ace, Mark  10M, 100M, Sw  Aluminum 1.32 kg DIN-Rail, wall 	2 (DB9 male)  2 (DB9-M) 15 KV    //tch  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	2 (DB9 male)  2 (DB9-M) 15 KV    10M, 100M  Aluminum 1.32 kg DIN-Rail, wall	 8 (DB9-M) 15 KV   Power, Storage 10M, 100M  Aluminum 2.2 kg 225 x 140 x 70 DIN-Rail, wall -10 to 60°C or -   S25.1) UL/cUL (UL609 C22.2 No. 6095	 8 (DB9-M) 15 KV    10M, 100M  10M, 100M  2.2 kg mm DIN-Rail, wall 35 to 75°C  50-1, CSA 0-1-03), LVD

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#### **Wallmount Computers**

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	UC-8410-LX UC-8410-T-LX	UC-8416-LX UC-8416-T-LX	UC-8418-LX UC-8418-T-LX	UC-7402-LX	UC-7402-LX Plus	UC-7408-LX UC-7408-T-LX	UC-7408-LX Plus UC-7408-T-LX Plus	UC-7408-CE UC-7408-T-CE	UC-7410-LX	UC-741 LX Plus
omputer	1									
CPU Speed	533 MHz	533 MHz	533 MHz	266 MHz	533 MHz	266 MHz	533 MHz	266 MHz	266 MHz	533 MH
)S (pre-installed)	Linux			Embedded Lir				WinCE 5.0	Embedded Lin	
DRAM	256 MB	256 MB	256 MB	256 MB	256 MB	256 MB	256 MB	256 MB	256 MB	256 MB
RAM										
SB										
lash	16 MB (OS); 32 MB (data)	16 MB (OS); 32 MB (data)	16 MB (OS); 32 MB (data)	32 MB	32 MB	32 MB	32 MB	32 MB	32 MB	32 MB
system Memory										
CMCIA				$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
xpansion Bus										
SB Ports										
ligital I/O	4 DIs, 4 DOs	4 DIs, 4 DOs	12 DIs, 12 DOs			8 DIs, 8 DOs	8 DIs, 8 DOs	8 DIs, 8 DOs		
torage										
uilt-in										
ompactFlash Socket	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
D Slot										
ther Peripherals										
B/MS										
udio										
lisplay										
Traphics Controller										
Aini Screen with Push Buttons									$\checkmark$	$\checkmark$
AN Interface										
0/100 Mbps Ethernet	0	0	0	0	0	0	0	0		0
orts	3	3	3	2	2	2	2	2	2	2
0/100/1000 Mbps thernet Ports										
witch Ports		8								
ontroller										
lagnetic Isolation	1 5 101	1 5 101		1 5 101	1 5 101	1 5 101		1 5 101	1 5 101	1 5 101
rotection	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV
erial Interface										
S-232 Ports										
S-485										
S-232/422/485 Ports	8 (RJ45)	8 (RJ45)	8 (RJ45)			8 (RJ45)	8 (RJ45)	8 (RJ45)	8 (RJ45)	8 (RJ4
SD Protection igital Isolation	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV
onsole Port	 V	√	√	√	√	√	 √	√	 √	√
erial Communication		7, 8; Stop Bits: 1, 1								
arameters	None, Even, Od		1.0, 2, 1 unty.			Data Bits: 5, 6,	7, 8; Stop Bits: 1, 1.5, 2	2; Parity: None, Ev	en, Odd, Space, I	Mark
low Control	RTS/CTS, XON/					RTS/CTS, XON/	XOFF, ADDC®			
audrate	50 bps to 921.6 supported)	Kbps (non-standa	ard baudrates			50 bps to 921.6	Kbps (non-standard b	audrates supporte	d)	
ANbus			2 (DB9-M)							
EDs			- ()							
System	Power, Ready, S	Storage Battery		OS Ready						
AN	10M, 100M			10M, 100M						
erial				TxD, RxD						
GIIAI	TxD, RxD									
	TxD, RxD									
hysical Characteristics	SECC sheet met	al (1 mm)								
hysical Characteristics lousing /eight		al (1 mm) 930 g	1 kg	830 g	830 g	870 g	870 g	870 g	810 g	810 g
hysical Characteristics ousing /eight	SECC sheet met 850 g 200 x 36.5 x	930 g		Ŭ		870 g	870 g	870 g	810 g	810 g
hysical Characteristics ousing /eight imensions	SECC sheet met 850 g 200 x 36.5 x 120 mm	· · · ·		197 x 44 x 12		870 g	870 g	870 g	810 g	810 g
hysical Characteristics ousing /eight imensions ounting	SECC sheet met 850 g 200 x 36.5 x	930 g		Ŭ		870 g	870 g	870 g	810 g	810 g
hysical Characteristics ousing leight imensions ounting ivironmental Limits	SECC sheet met 850 g 200 x 36.5 x 120 mm DIN-Rail, wall	930 g 200 x 56 x 120		197 x 44 x 12 DIN-Rail, wall				870 g		810 g
hysical Characteristics ousing /eight imensions lounting hvironmental Limits perating Temperature	SECC sheet met 850 g 200 x 36.5 x 120 mm DIN-Rail, wall -10 to 60°C or -	930 g 200 x 56 x 120		197 x 44 x 12 DIN-Rail, wall -10 to 60°C		-10 to 60°C or -		870 g	-10 to 60°C	810 g
hysical Characteristics ousing feight imensions ounting hypronmental Limits perating Temperature perating Humidity	SECC sheet met 850 g 200 x 36.5 x 120 mm DIN-Rail, wall -10 to 60°C or - 5 to 95% RH	930 g 200 x 56 x 120 40 to 75°C		197 x 44 x 12 DIN-Rail, wall -10 to 60°C 5 to 95% RH		-10 to 60°C or - 5 to 95% RH		870 g	-10 to 60°C 5 to 95% RH	810 g
nysical Characteristics ousing leight mensions ounting ivironmental Limits perating Temperature perating Humidity orage Temperature	SECC sheet met 850 g 200 x 36.5 x 120 mm DIN-Rail, wall -10 to 60°C or - 5 to 95% RH -20 to 80°C or -	930 g 200 x 56 x 120 40 to 75°C 40 to 85°C	mm	197 x 44 x 12 DIN-Rail, wall -10 to 60°C 5 to 95% RH -20 to 80°C	5 mm	-10 to 60°C or - 5 to 95% RH -20 to 80°C	40 to 75°C		-10 to 60°C 5 to 95% RH -20 to 80°C	
hysical Characteristics ousing /eight imensions ounting hyironmental Limits perating Temperature perating Temperature perating Humidity torage Temperature nti Vibration/Shock	SECC sheet met 850 g 200 x 36.5 x 120 mm DIN-Rail, wall -10 to 60°C or - 5 to 95% RH	930 g 200 x 56 x 120 40 to 75°C		197 x 44 x 12 DIN-Rail, wall -10 to 60°C 5 to 95% RH		-10 to 60°C or - 5 to 95% RH		870 g 1g/5g	-10 to 60°C 5 to 95% RH -20 to 80°C	810 g 1g/5g
hysical Characteristics lousing /eight imensions lounting nvironmental Limits perating Temperature perating Temperature perating Humidity torage Temperature nti Vibration/Shock	SECC sheet met 850 g 200 x 36.5 x 120 mm DIN-Rail, wall -10 to 60°C or - 5 to 95% RH -20 to 80°C or - 1g/5g	930 g 200 x 56 x 120 40 to 75°C 40 to 85°C 1g/5g	mm 1g/5g	197 x 44 x 12 DIN-Rail, wall -10 to 60°C 5 to 95% RH -20 to 80°C	5 mm	-10 to 60°C or - 5 to 95% RH -20 to 80°C	40 to 75°C		-10 to 60°C 5 to 95% RH -20 to 80°C	
hysical Characteristics lousing	SECC sheet met 850 g 200 x 36.5 x 120 mm DIN-Rail, wall -10 to 60°C or - 5 to 95% RH -20 to 80°C or - 1g/5g CE (EN55022 CI EN55024-4-3, E	930 g 200 x 56 x 120 40 to 75°C 40 to 85°C 1g/5g ass B, EN55024-4 N55024-4-4), FCC	mm 1g/5g	197 x 44 x 12 DIN-Rail, wall -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g	5 mm 1g/5g	-10 to 60°C or - 5 to 95% RH -20 to 80°C 1g/5g	40 to 75°C	1g/5g	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g	1g/5g
hysical Characteristics lousing /eight imensions lounting nvironmental Limits perating Temperature perating Temperature perating Humidity torage Temperature nti Vibration/Shock egulatory Approvals	SECC sheet met 850 g 200 x 36.5 x 120 mm DIN-Rail, wall -10 to 60°C or - 5 to 95% RH -20 to 80°C or - 1g/5g CE (EN55022 CI EN55024-4-3, E Subpart B, Class	930 g 200 x 56 x 120 40 to 75°C 40 to 85°C 1g/5g ass B, EN55024-4 N55024-4-4), FCC 5 B)	mm 1g/5g	197 x 44 x 12 DIN-Rail, wall -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g CE (EN55022	5 mm 1g/5g Class A, EN6100	-10 to 60°C or - 5 to 95% RH -20 to 80°C 1g/5g 0-3-2 Class A, ENG	40 to 75°C 1g/5g \$1000-3-3, EN55024), F	1g/5g	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g	1g/5g
hysical Characteristics ousing /eight imensions lounting nvironmental Limits perating Temperature perating Temperature perating Humidity torage Temperature nti Vibration/Shock egulatory Approvals MC afety	SECC sheet met 850 g 200 x 36.5 x 120 mm DIN-Rail, wall -10 to 60°C or - 5 to 95% RH -20 to 80°C or - 1g/5g CE (EN55022 CI EN55024-4-3, E Subpart B, Class UL/cUL (UL6093	930 g 200 x 56 x 120 40 to 75°C 40 to 85°C 1g/5g ass B, EN55024-4 N55024-4-4), FCC 8 B) 50-1), CCC, LVD	mm 1g/5g	197 x 44 x 12 DIN-Rail, wall -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g CE (EN55022	5 mm 1g/5g Class A, EN6100	-10 to 60°C or - 5 to 95% RH -20 to 80°C 1g/5g 0-3-2 Class A, ENG	40 to 75°C 1g/5g	1g/5g	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g	1g/5g
hysical Characteristics ousing (eight imensions ounting hypothesis and the second perating Temperature perating Humidity sorage Temperature nti Vibration/Shock agulatory Approvals MC afety reen Product	SECC sheet met 850 g 200 x 36.5 x 120 mm DIN-Rail, wall -10 to 60°C or - 5 to 95% RH -20 to 80°C or - 1g/5g CE (EN55022 CI EN55024-4-3, E Subpart B, Class	930 g 200 x 56 x 120 40 to 75°C 40 to 85°C 1g/5g ass B, EN55024-4 N55024-4-4), FCC 8 B) 50-1), CCC, LVD	mm 1g/5g	197 x 44 x 12 DIN-Rail, wall -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g CE (EN55022	5 mm 1g/5g Class A, EN6100	-10 to 60°C or - 5 to 95% RH -20 to 80°C 1g/5g 0-3-2 Class A, ENG	40 to 75°C 1g/5g \$1000-3-3, EN55024), F	1g/5g	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g	1g/5g
hysical Characteristics ousing /eight imensions iounting outiong perating Temperature perating Temperature perating Humidity torage Temperature nti Vibration/Shock egulatory Approvals	SECC sheet met 850 g 200 x 36.5 x 120 mm DIN-Rail, wall -10 to 60°C or - 5 to 95% RH -20 to 80°C or - 1g/5g CE (EN55022 CI EN55024-4-3, E Subpart B, Class UL/cUL (UL6093	930 g 200 x 56 x 120 40 to 75°C 40 to 85°C 1g/5g ass B, EN55024-4 N55024-4-4), FCC 8 B) 50-1), CCC, LVD	mm 1g/5g	197 x 44 x 12 DIN-Rail, wall -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g CE (EN55022	5 mm 1g/5g Class A, EN6100	-10 to 60°C or - 5 to 95% RH -20 to 80°C 1g/5g 0-3-2 Class A, ENG	40 to 75°C 1g/5g \$1000-3-3, EN55024), F	1g/5g	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g part B, CISPR 22	1g/5g

Installation I

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# **Wallmount Computers**

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	UC-7420-LX	UC-7420-LX Plus	UC-7410-CE	UC-7420-CE	UC-7122-CE UC-7122-T-CE	UC-7124-CE UC-7124-T-CE	UC-7110-LX UC-7110-T-LX	UC-7112-LX	UC-7112-LX Plus	UC-7101-LX UC-7101-T-LX
Computer										
CPU Speed	266 MHz	533 MHz	266 MHz	533 MHz	200 MHz	200 MHz	192 MHz	192 MHz	192 MHz	192 MHz
OS (pre-installed)	Embedded Lin	iux	WinCE 5.0				μClinux		Linux	μClinux
DRAM	128 MB	128 MB	128 MB	128 MB	32 MB	32 MB	16 MB	16 MB	32 MB	16 MB
SRAM										
FSB										
Flash	32 MB	32 MB	32 MB	32 MB	16 MB	16 MB	8 MB	8 MB	16 MB	8 MB
System Memory										
PCMCIA	$\checkmark$									
Expansion Bus USB Ports										
Digital I/O										
Storage										
Built-in										
CompactFlash Socket	$\checkmark$	$\checkmark$		$\checkmark$						
SD Slot					$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
Other Peripherals										
KB/MS										
Audio										
Display										
Graphics Controller										
Mini Screen with Push Buttons	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$						
LAN Interface										
10/100 Mbps Ethernet Ports	2	2	2	2	2	2	2	2	2	1
10/100/1000 Mbps Ethernet Ports										
Switch Ports										
Controller Magnetic Isolation										
Protection	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV
Serial Interface										
RS-232 Ports										
RS-485										
RS-232/422/485 Ports ESD Protection	8 (RJ45) 15 KV	8 (RJ45) 15 KV	8 (RJ45) 15 KV	8 (RJ45) 15 KV	2 (RJ45) 15 KV	4 (RJ45) 15 KV	2 (DB9-M) 15 KV	2 (DB9-M) 15 KV	2 (DB9-M) 15 KV	2 (DB9-M) 15 KV
Optical Isolation Console Port	 V	√	 √	√	√	√	√	 √	 V	 √
Serial Communication						V	V	V	N	V
Parameters Flow Control		i, 7, 8; Stop Bits V/XOFF, ADDC®		/: None, Even, C	)dd, Space, Mark					
Baudrate	50 bps to 921	6 Khns (non-st	andard baudrate	es sunnorted: se	e user's manual fo	or details)				
CANbus										
LEDs										
System	OS Ready				Ready, SD		OS Ready			Ready
LAN	10M, 100M	10M, 100M	10M, 100M	10M, 100M	10M, 100M	10M, 100M	10M, 100M	10M, 100M	10M, 100M	10M, 100M
Serial	TxD, RxD	TxD, RxD	TxD, RxD	TxD, RxD	TxD, RxD	TxD, RxD	TxD, RxD	TxD, RxD	TxD, RxD	TxD, RxD
Physical Characteristics										
i nysical characteristics		- 1 - 1 <i>(</i> 4 )			Aluminum (1 m	m)				
Housing	SECC sheet m	, ,								130 g
Housing Weight	875 g	875 g	875 g	875 g	190 g	200 g	190 g	190 g	190 g	
Housing Weight Dimensions	875 g 197 x 44 x 12	875 g	875 g	875 g	190 g 77 x 111 x 26 m	-	190 g	190 g	190 g	67 x 22 x 100.4 mm
Housing Weight Dimensions Mounting	875 g	875 g	875 g	875 g	190 g	-	190 g	190 g	190 g	•
Housing Weight Dimensions Mounting Environmental Limits	875 g 197 x 44 x 12 DIN-Rail, wall	875 g 5 mm			190 g 77 x 111 x 26 m DIN-Rail, wall	im	190 g	190 g	190 g	67 x 22 x 100.4 mm
Housing Weight Dimensions Mounting Environmental Limits Operating Temperature	875 g 197 x 44 x 125 DIN-Rail, wall -10 to 60°C	875 g 5 mm -10 to 60°C	-10 to 60°C	-10 to 60°C	190 g 77 x 111 x 26 m DIN-Rail, wall -10 to 60°C or -	40 to 75°C				67 x 22 x 100.4 mm DIN-Rail, wall
Housing Weight Dimensions Mounting Environmental Limits Operating Temperature Operating Humidity	875 g 197 x 44 x 123 DIN-Rail, wall -10 to 60°C 5 to 95% RH	875 g 5 mm -10 to 60°C 5 to 95% RH			190 g 77 x 111 x 26 m DIN-Rail, wall	im	5 to 95% RH	5 to 95% RH	190 g 5 to 95% RH	67 x 22 x 100.4 mm
Housing Weight Dimensions Mounting Environmental Limits Operating Temperature Operating Humidity Storage Temperature	875 g 197 x 44 x 123 DIN-Rail, wall -10 to 60°C 5 to 95% RH -20 to 80°C	875 g 5 mm -10 to 60°C 5 to 95% RH -20 to 80°C	-10 to 60°C 5 to 95% RH -20 to 80°C	-10 to 60°C 5 to 95% RH -20 to 80°C	190 g 77 x 111 x 26 m DIN-Rail, wall -10 to 60°C or - 5 to 95% RH -20 to 80°C	m 40 to 75°C 5 to 95% RH	5 to 95% RH -20 to 80°C or -	5 to 95% RH 40 to 85°C	5 to 95% RH	67 x 22 x 100.4 mm DIN-Rail, wall 5 to 95% RH
Housing Weight Dimensions Mounting Environmental Limits Operating Temperature Operating Humidity Storage Temperature Anti Vibration/Shock	875 g 197 x 44 x 123 DIN-Rail, wall -10 to 60°C 5 to 95% RH	875 g 5 mm -10 to 60°C 5 to 95% RH	-10 to 60°C 5 to 95% RH	-10 to 60°C 5 to 95% RH	190 g 77 x 111 x 26 m DIN-Rail, wall -10 to 60°C or - 5 to 95% RH	40 to 75°C	5 to 95% RH	5 to 95% RH	5 to 95%	67 x 22 x 100.4 mm DIN-Rail, wall
Housing Weight Dimensions Mounting Environmental Limits Operating Temperature Operating Humidity Storage Temperature Anti Vibration/Shock Regulatory Approvals	875 g 197 x 44 x 12! DIN-Rail, wall -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g	875 g 5 mm -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g	190 g 77 x 111 x 26 m DIN-Rail, wall -10 to 60°C or - 5 to 95% RH -20 to 80°C 	40 to 75°C 5 to 95% RH 	5 to 95% RH -20 to 80°C or - 	5 to 95% RH 40 to 85°C 	5 to 95% RH	67 x 22 x 100.4 mm DIN-Rail, wall 5 to 95% RH
Housing Weight Dimensions Mounting Environmental Limits Operating Temperature Operating Humidity Storage Temperature Anti Vibration/Shock Regulatory Approvals	875 g 197 x 44 x 12! DIN-Rail, wall -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g	875 g 5 mm -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g	190 g 77 x 111 x 26 m DIN-Rail, wall -10 to 60°C or - 5 to 95% RH -20 to 80°C 	40 to 75°C 5 to 95% RH  rrt 15 Subpart B, (	5 to 95% RH -20 to 80°C or -	5 to 95% RH 40 to 85°C 	5 to 95% RH	67 x 22 x 100.4 mm DIN-Rail, wall 5 to 95% RH
Housing Weight Dimensions Mounting Environmental Limits Operating Temperature Operating Humidity Storage Temperature Anti Vibration/Shock Regulatory Approvals EMC	875 g 197 x 44 x 123 DIN-Rail, wall -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g CE (EN55022	875 g 5 mm -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g 00-3-2 Class A,	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g EN61000-3-3, E	190 g 77 x 111 x 26 m DIN-Rail, wall -10 to 60°C or - 5 to 95% RH -20 to 80°C 	40 to 75°C 5 to 95% RH  rrt 15 Subpart B, (	5 to 95% RH -20 to 80°C or - 	5 to 95% RH 40 to 85°C  50-1, CSA C22.	5 to 95% RH  2 No.	67 x 22 x 100.4 mm DIN-Rail, wall 5 to 95% RH  LVD (EN60950-1), UL/cUL (UL60950, CAN/
Housing Weight Dimensions Mounting Environmental Limits Operating Temperature Operating Humidity Storage Temperature Anti Vibration/Shock Regulatory Approvals EMC Safety Green Product	875 g 197 x 44 x 123 DIN-Rail, wall -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g CE (EN55022 UL/cUL (UL60	875 g 5 mm -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g Class A, EN6100 950-1, CSA C22	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g 00-3-2 Class A,	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g EN61000-3-3, E	190 g 77 x 111 x 26 m DIN-Rail, wall -10 to 60°C or - 5 to 95% RH -20 to 80°C  V55024), FCC (P2 UVD (EN60950-1, CC	40 to 75°C 5 to 95% RH  rrt 15 Subpart B, (	5 to 95% RH -20 to 80°C or -  CISPR 22 Class A) UL/cUL (UL609)	5 to 95% RH 40 to 85°C  50-1, CSA C22.	5 to 95% RH  2 No.	67 x 22 x 100.4 mm DIN-Rail, wall 5 to 95% RH 
Housing Weight Dimensions Mounting Environmental Limits Operating Temperature Operating Humidity Storage Temperature Anti Vibration/Shock Regulatory Approvals EMC Safety	875 g 197 x 44 x 122 DIN-Rail, wall -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g CE (EN55022 UL/cUL (UL60 (EN60950-1) RoHS, CRoHS	875 g 5 mm -10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g Class A, EN6100 950-1, CSA C22	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g 00-3-2 Class A,	-10 to 60°C 5 to 95% RH -20 to 80°C 1g/5g EN61000-3-3, E	190 g 77 x 111 x 26 m DIN-Rail, wall -10 to 60°C or - 5 to 95% RH -20 to 80°C  V55024), FCC (P2 UVD (EN60950-1, CC	40 to 75°C 5 to 95% RH  rrt 15 Subpart B, (	5 to 95% RH -20 to 80°C or -  CISPR 22 Class A) UL/cUL (UL609)	5 to 95% RH 40 to 85°C  50-1, CSA C22. JV (EN60950-1)	5 to 95% RH  2 No.	67 x 22 x 100.4 mm DIN-Rail, wall 5 to 95% RH  LVD (EN60950-1), UL/cUL (UL60950, CAN/

#### **Rackmount Computers**

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	DA-681-I-SP-CE	DA-681-I-SP-XPE	DA-681-I-SP-LX	DA-681-I-DP-CE	DA-681-I-DP-XPE	DA-681-I-DP-LX	DA-682-CE	DA-682-XPE	DA-682-LX
Computer		1		<u> </u>					
CPU Speed	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz	1 GHz
OS (pre-installed)	WinCE 6.0	WinXP Emb. SP2	Linux	WinCE 6.0	WinXP Emb. SP2	Linux	WinCE 6.0	WinXP Emb. SP2	Linux
DRAM									
FSB	400 MHz	400 MHz	400 MHz	400 MHz	400 MHz	400 MHz	400 MHz	400 MHz	400 MHz
Flash System Memory	512 MB	 512 MB (1 GB max.)	512 MB	512 MB	512 MB	512 MB	256 MB	512 MB	 512 MB (1 GB max.)
PCMCIA	(1 GB max.)	(1 GD IIIdX.)	(1 GB max.)	(1 GB max.)	(1 GB max.)	(1 GB max.)	(1 GB max.)	(1 GB max.)	(1 GD IIIdX.)
Expansion Bus	PC/104-Plus onbo	bard							
USB Ports	2 (USB 2.0)	2 (USB 2.0)	2 (USB 2.0)	2 (USB 2.0)	2 (USB 2.0)	2 (USB 2.0)	4 (USB 2.0)	4 (USB 2.0)	4 (USB 2.0)
Storage									
Built-in CompactFlash Socket	1 GB √	1 GB √	1 GB √	1 GB √	1 GB √	1 GB √	256 MB √	1 GB √	1 GB √
HDD Support	V	V	V	1	V	V	V	1	V
Other Peripherals									
KB/MS	1 PS/2 interface,	supports standard PS/	2 keyboard and PS/2	2 mouse via Y-type c	able (Optional)				
Display									
Graphics Controller	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Mini Screen with Push Buttons									
LAN Interface									
10/100 Mbps Ethernet	6	6	6	6	6	6			
Ports 10/100/1000 Mbps Ethernet Ports							4	4	4
Magnetic Isolation Protection	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV
100BaseFX Fiber Ports (multi-mode)									
Serial Interface									
RS-232 Ports	4 (DB9-M)	4 (DB9-M)	4 (DB9-M)	4 (DB9-M)	4 (DB9-M)	4 (DB9-M)			
RS-485	8 (TB)	8 (TB)	8 (TB)	8 (TB)	8 (TB)	8 (TB)			
RS-232/422/485 Ports ESD Protection	 15 KV	 15 KV	 15 KV	 15 KV	 15 KV	 15 KV			
Digital Isolation	2 KV	2 KV	2 KV	2 KV	2 KV	2 KV			
Console Port									
Serial Communication Parameters	Data Bits: 5, 6, 7,	8; Stop Bits: 1, 1.5, 2;	Parity: None, Even,	Odd, Space, Mark					
Flow Control	RTS/CTS, XON/XO								
Baudrate	50 bps to 921.6 K	bps (non-standard ba	udrates supported; s	ee user's manual foi	r details)				
LEDs System	Ready Storage P	ower Failure (for dual	nower models only)				Ready, Power,	Storage	
LAN	10M, 100M	10M. 100M	10M, 100M	10M. 100M	10M, 100M	10M, 100M	100M,	100M,	100M,
		. ,					1000M	1000M	1000M
Serial	TX, RX	TX, RX	TX, RX	TX, RX	TX, RX	TX, RX	TX, RX	TX, RX	TX, RX
Physical Characteristics	0500 1 1 1								
Housing Weight	SECC sheet metal 4.5 kg	(1 mm) 4.5 kg	4.5 kg	4.5 kg	4.5 kg	4.5 kg	7 kg	7 kg	7 kg
Dimensions	440 x 253 x 45 m		4.5 Kg	4.5 Ky	4.0 Kg	4.5 Kg	440 x 253 x 90		7 Ky
Mounting	Standard 19-inch						110 X 200 X 00		
Environmental Limits									
Operating Temperature	0 to 60°C	0 to 60°C	0 to 60°C	0 to 60°C	0 to 60°C	0 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C
Operating Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH	5 to 95% RH
Storage Temperature	-20 to 75°C	-20 to 75°C	-20 to 75°C	-20 to 75°C	-20 to 75°C	-20 to 75°C	-20 to 80°C	-20 to 80°C	-20 to 80°C
Regulatory Approvals	CE (EN61000-2-2	, EN61000-3-3, EN550	124) ECC /Part 15 C	ubnart B CICDD 00		4 GB 17625 1)			
EMC	CE (EN55022)	, ENOTOUS-5-5, EN550	52-7), 100 (Fait 15 5	ubpair D, olor n 22 l	01035 A), 000 (00925	-, ab 17023.1)	CE (EN61000-	6-4)	
Safety	UL/cUL (UL60950	)-1, CSA C22.2 No. 60	950-1-03), LVD (EN	60950-1), CCC (GB4	943)				
Green Product	RoHS, CRoHS, W	EEE							
Reliability				1					
Buzzer, RTC, WDT	√ Evers (see week	√ mova com/warrantu)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
Warranty	o years (see www	.moxa.com/warranty)							

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#### **Rackmount Computers**

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	DA-660-8-LX	DA-660-8-CE	DA-660-16-LX	DA-660-16-CE	DA-661-16-LX	DA-661-16-CE	DA-662-16-LX	DA-662-16-CE	DA-662-I-16- LX	DA-662-I-16- CE
Computer										
CPU Speed	266 MHz	266 MHz	266 MHz	266 MHz	533 MHz	533 MHz	533 MHz	533 MHz	533 MHz	533 MHz
OS (pre-installed)	Emb. Linux	WinCE 5.0	Emb. Linux	WinCE 5.0	Emb. Linux	WinCE 5.0	Emb. Linux	WinCE 5.0	Emb. Linux	WinCE 5.0
DRAM	128 MB	128 MB	128 MB	128 MB	128 MB	128 MB	128 MB	128 MB	128 MB	128 MB
FSB										
Flash	32 MB	32 MB	32 MB	32 MB	32 MB	32 MB	32 MB	32 MB	32 MB	32 MB
System Memory										
PCMCIA					$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
Expansion Bus										
USB Ports					2	2	2	2	2	2
Storage										
Built-in										
CompactFlash Socket					$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
HDD Support										
Other Peripherals										
KB/MS										
Display										
Graphics Controller										
Mini Screen with Push Buttons	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
LAN Interface										
10/100 Mbps Ethernet	0	0	0	0	0	0				
Ports 10/100/1000 Mbps	2	2	2	2	2	2	4	4	4	4
Ethernet Ports Magnetic Isolation Protection	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV
100BaseFX Fiber Ports (multi-mode)										
Serial Interface										
RS-232 Ports										
RS-485										
RS-232/422/485 Ports	8 (RJ45)	8 (RJ45)	16 (RJ45)	16 (RJ45)	16 (RJ45)	16 (RJ45)	16 (RJ45)	16 (RJ45)	16 (RJ45)	16 (RJ45)
ESD Protection	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV	15 KV
Digital Isolation									2 KV	2 KV
Console Port	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
Serial Communication Parameters	Data Bits: 5, 6,	7, 8; Stop Bits: 1	, 1.5, 2; Parity: No	one, Even, Odd, Sp	oace, Mark					
Flow Control	RTS/CTS, XON	/XOFF, ADDC®								
Baudrate	50 bps to 921.	6 Kbps (non-stan	idard baudrates si	upported; see user	's manual for deta	ils)				
LEDs										
System	OS Ready	OS Ready	OS Ready	OS Ready	OS Ready	OS Ready	OS Ready	OS Ready	OS Ready	OS Ready
LAN	10M, 100M	10M, 100M	10M, 100M	10M, 100M	10M, 100M	10M, 100M	10M, 100M	10M, 100M	10M, 100M	10M, 100M
Serial	TxD, RxD	TxD, RxD	TxD, RxD	TxD, RxD	TxD, RxD	TxD, RxD	TxD, RxD	TxD, RxD	TxD, RxD	TxD, RxD
Physical Characteristics										
Housing	SECC sheet me									
Weight	2600 g	2600 g	2600 g	2600 g	2600 g	2600 g	2600 g	2600 g	2940 g	2940 g
Dimensions Mounting	440 x 45 x 198								440 x 45 x 228	smm
Mounting Environmental Limits	Standard 19-in	GITTACKINOUNT								
Operating Temperature	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60%
Operating Humidity	5 to 95% RH	-10 to 60°C 5 to 95% RH	5 to 95% RH	-10 to 60°C 5 to 95% RH	-10 to 60°C 5 to 95% RH	-10 to 60°C 5 to 95% RH	-10 to 60°C 5 to 95% RH	-10 to 60°C 5 to 95% RH	-10 to 60°C 5 to 95% RH	-10 to 60°C 5 to 95% RH
Storage Temperature	-20 to 80°C	-20 to 80°C	-20 to 80°C	-20 to 80°C	-20 to 80°C	-20 to 80°C	-20 to 80°C	-20 to 80°C	-20 to 80°C	-20 to 80°C
Regulatory Approvals										
EMC	CE (EN55022 (	Class A. EN61000	-3-2 Class A EN6	1000-3-3 EN5502	24), ECC (Part 15)	Subpart B, CISPR :	22 Class A)			
Safety				, TÜV (EN60950-1	, , , , , , , , , , , , , , , , , , ,					
Green Product	RoHS, CRoHS,									
Reliability										
Reliability Buzzer, RTC, WDT		$\checkmark$	$\checkmark$		$\checkmark$				$\checkmark$	$\checkmark$

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# Module/Board Computers

EM-220-CEEM-220-LXEM-220-LXEM-220-LXEM-220-LXComputerComputer200 MHz200 MHz192 MHz192 MHz192 MHzGV (pre-installed)WinCE 0.0LinuxEmdeding UfinuxDRAM128 MB128 MB16 MB8 MB128 MB22 MB8 MB8 MB8 MBDigital VIO8 DIs, 8 Dos8 Dis, 8 DosStorageDigital VIO8 Dis, 8 DosStorageDigital VIO1 S KVNNDigital VIO1 S KV1 S KV1 S KV1 S KV1 S KVDigital Kase22222Storage1 S KV1 S KV1 S KV1 S KV1 S KVDigital Kase44422Storage Storage1 S KV1 S KV1 S KV1 S KVStorage Storage1 S KV1 S KV1 S KV1 S KVStorage Storage Storage1 S KV1 S KV1 S KV1 S KVStorage Storage Storage Storage1 S KV1 S KV1 S KV1 S KVStorage Storage			江日		
CPU Speed         200 MHz         200 MHz         192 MHz         192 MHz           OS (pri-installed)         WinCE 6.0         Linux         Embedded µClinux           DRAM         128 MB         16 MB         16 MB         16 MB           Flash         32 MB         32 MB         8 MB         8 MB           Digital /O         8 DIs, 8 DOs              Storget               Bis Stord               Displat /O         8 Dis, 8 DOs         8 Dis, 8 DOs             Storget                Displat /O                Displat /O                Displat /O         √               LAN ter/secontroll         15 KV         15 KV         15 KV         15 KV         15 KV           Storget /O         15 KV         15 KV         15 KV         15 KV         15 KV		EM-2260-CE	EM-2260-LX	EM-1240-LX EM-1240-T-LX	EM-1220-LX EM-1220-T-LX
OS (pre-installed)         WinCE 6.0         Linux         Embedded µClinux           DRAM         128 MB         126 MB         16 MB         16 MB           Bash         32 MB         8 MB         8 MB           Digital 100         8 DIs, 8 DOs         8 DB         8 MB           Digital 100         8 DIs, 8 DOs         8 DIs, 8 DOs            Storage              Digital 00              Storage              Byby              Byby              Byby              Byby              Byby              Byby              Byby         15 KV         15 KV         15 KV         15 KV           Byby         15 KV         15 KV         15 KV         15 KV           Byby         16 KF         15 KV         15 KV         15 KV           Byby         15 KV         <	Computer				
DRAM         128 MB         128 MB         16 MB         16 MB           Plash         32 MB         32 MB         8 MB         8 MB           Digital VO         8 Dis, 8 DOS         8 Dis, 8 DOS             Storage               Storage               Display               Ospital VO         V              Optital VO         V              Optital VO         V              Optital VO         V              LAN Interface         2         2         2         2           Voltation         1.5 KV         1.5 KV         1.5 KV         1.5 KV           Strianterase              Sec204/202480 Pois         4         4         4         2         2           Sec204/202480 Pois         4         4         4         2         2           Sec204/202480 Pois	Proce		200 MHz	192 MHz	192 MHz
Fash Digital U0 B DIS, B DOS8 MB B DIS, B DOS8 MB B MB B DIS, B DOS8 MB B DIS, B DOS9 MB 	11 /				
Digital I/O         8 DIs, 8 DOs         B Dis, 8 DOs         Dim         Dim           Storage					
Storage         V         V         V           SD Slot					
SD StotVVVEDD InterfaceVVDisplayGraphics ControllerVVGraphics ControllerVVDATA InterfaceVVD/100 Mbps Ethernet Pords2222Manetic Isolation Pordection1.5 KV1.5 KV1.5 KV1.5 KVSerial InterfaceVV2ESO Protection15 KV15 KV15 KV15 KVSerial Communication Parameters15 KV15 KV15 KVData Bits: 5, 6, 7, 8; Stop Bits: 1, 1, 5, 2; Parity: None, Even, Odd, Space, MarkVVFlow ControlRTS/CTS, XOM/XOFF, ADDCØVVVBaudrate50 bp to 921.6 Kbps (non-standard baudrates supported; see user's manual for details)V90 x 80 mmPhysical CharacteristicsTro 2 x 28 pin-headers (1.27 x 1.27 mm pit)Tro 2 x 28 pin-headers (1.27 x 1.27 mm pit)Environmend IntherTro 2 x 28 pin-headers (1.27 x 1.27 mm pit)Operating Temperature-10 to 60°C-10 to 60°C or -40 to 75°C-0 to 80°C or -40 to 75°COperating Temperature-10 to 60°C-10 to 60°C or -40 to 75°C-0 to 80°C or -40 to 85°C refRegulatory ApprovalsEther constrainedRegulatory ApprovalsEther constrainedEther C		8 DIS, 8 DUS	8 DIS, 8 DUS		
EIDE Interface√√DisplorGraphics Controller√√CAN Interface10/100 Mps Ethernel Protection2222Magnetic Isolation Protection1.5 KV1.5 KV1.5 KV1.5 KVSerial InterfaceRS-232/422/485 Ports4442ESD Protection15 KV15 KV15 KV15 KVOnsole Port Portaction15 KV15 KV15 KV15 KVData Bits: 5, 6, 7, 8; Stop Bits: 1, 15, 2; Partity: None, Even, Odd, Space, Mark ParametersVVVSorial Communication Physical CharacteristicsTO g50 g40 gPhysical Characteristics70 g50 g40 g0Dimensions106 x 87 mm90 x 80 mm80 x 50 mmModule Interface erametersTo 2 x 28 pin-headers (1.27 x 1.27 m) pitchEnvironental LimitsTo 2 x 28 pin-headers (1.27 x 1.27 m) pitchEnvironental LimitsTo 2 x 28 pin-headers (1.27 x 1.27 m) pitchEnvironental LimitsTo 2 x 28 pin-headers (1.27 x 1.27 m) pitchEnvironental LimitsTo 2 x 28 pin-headers (1.27 x 1.27 m) pitchEnvironental LimitsTo 2 x 28 pin-headers (1.27 x 1.27 m) pitchEnvironental LimitsTo 2 x 28 pin-headers (1.27 x 1.27 m) pitchEnvironental LimitsEnviron					1
Display     Image Processing Source     Image Proces     Image Processing Sou					
Graphics Controller√√LAN Interface10/100 Mbps Ethernet Portise2222Magnetic Isolation Protection1.5 KV1.5 KV1.5 KV1.5 KVSerial InterfaceRS-232/422/485 Ports4442Serial Communication Parameters5 KV15 KV15 KV15 KVOption I√√√√Serial Communication Parameters√√√Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; Party: None, Even, Odd, Space, Mark√Baudrate50 bps to 921.6 Kbps (non-standard bautrate supported; see user's manual for detailsPhysical CharacteristicsTo 0000Dimensions106 x 87 mm106 x 87 mm90 x 80 mm80 x 50 mmModule InterfaceTwo 2 x 28 pin-headers (1.27 x 1.27 m pt/t)Environmental LimitsTwo 2 x 28 pin-headers (1.27 x 1.27 m pt/t)Environmental LimitsTwo 2 x 28 pin-headers (1.27 x 1.27 m pt/t)Ce (Class A), FCC-10 to 60°C-10 to 60°C or -40 to 75°COperating Temperature-20 to 80°C-20 to 80°C or -40 to 85°CRegulatory ApprovalsCE (Class A), FCCCE (Class A), FCC (Part 15 Subpart B, CISPR 22 Class A), EN5024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN500		v	v		
LAN Interface22210/100 Mbps Ethernet Ports22Magnetic Isolation Protection1.5 KV1.5 KV1.5 KV15 KV1.5 KV1.5 KV1.5 KVRS-232/422/485 Ports4442ESD Protection15 KV15 KV15 KV15 KVConsole Port√√√√Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; Parity: None, Even, Odd, Space, Mark15 KV15 KVBaudrate50 bps to 921.6 Kbps (non-standard baudrates supported; see user's manual for details)					
10/100 Mbps Ethernet Ports222Magnetic Isolation Protection1.5 KV1.5 KV1.5 KVSerial InterfaceKBs/232/422/485 Ports4442ESO Protection15 KV15 KV15 KV15 KVData Bits: 5, 6, 7, 8; Stop Bits: 1, 1, 5, 2, Parity: None, Even, Odd, Space, Mark√√ParametersData Bits: 5, 6, 7, 8; Stop Bits: 1, 1, 5, 2, Parity: None, Even, Odd, Space, Mark✓Pow ControlRTS/CTS, X0N/XOFF, ADDC®✓✓Baudrate50 bps to \$21.6 Kbps (non-standard baudrates supported; see user's manual for details)✓Physical Characteristics✓Weight70 g70 g50 g90 x 80 mm80 x 50 mmModule InterfaceTwo 2 x 28 pin-headers (1.27 x 1.27 mm pitch)Environmental Limits✓Operating Temperature-10 to 60°C-10 to 60°C or -40 to 75°COperating Temperature-20 to 80°C-20 to 80°C-20 to 80°C or -40 to 85°CRegulatory ApprovalsEEEMCCE (Class A), FCCCE (EN55022 Class A, EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A)Green ProductRest, GRoHS, WEEEEBuzzer, RTC, WDT√√√With√√		V	N		
Ports22222Magnetic Isolation Protection1.5 KV1.5 KV1.5 KV1.5 KVSerial InterfaceBX-232/422/485 Ports4442ESD Protection15 KV15 KV15 KV15 KVConsole Port $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ Serial Communication Parameters $\checkmark$ $\checkmark$ $\checkmark$ BaudrateData Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; Parity: None, Even, 0dd, Space, Mark $\checkmark$ Pow ControlRTS/CTS, XON/XOFF, ADDCO®Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; Parity: None, Even, 0dd, Space, MarkBaudrate50 bps to 921.6 Kbps (non-standard baut-supported; see user's manual for dettaints $\checkmark$ Physical CharacteristicsV $\checkmark$ $\checkmark$ Weight70 g70 g50 g40 gDimensions106 x 87 mm90 x 80 mm80 x 50 mmModule InterfaceTwo 2 x 28 pin-headers (1.27 x 1.27 mpt)Environmental LimitTwo 2 x 28 pin-headers (1.27 x 1.27 mpt)Environmental LimitTo 10 to 60°C or -40 to 75°COperating Famperature-10 to 60°C-10 to 60°C or -40 to 75°COperating Famperature-20 to 80°C-20 to 80°C-20 to 80°C r-40 to 85°CRegulatory ApprovalsEEEEEMCCE (Class A), FCCCE (ENS5022 Class A, EN61000-3-2 Class A, EN5024), FCC (Part I 15 Subpart B, CISPR 92 Class A, EN51000-3-3, EN55024), FCC (Part I) 15 Subpart B, CI					
Profection         1.5 KV         1.5 KV         1.5 KV         1.5 KV           Serial Interface         ISKV         1.5 KV         1.5 KV         1.5 KV           RS-232/422/485 Ports         4         4         4         2           Schwall Interface         ISKV         15 KV         15 KV         15 KV         15 KV           Console Port         √         √         √         √         √           Serial Communication         J         √         √         √         √           Serial Communication         J         √         √         √         √           Parameters         J         √         √         √         √         √           Baudrate         50 bps to \$21.6 Kbps (non-standard baudrates supported; see user's manual for detall's         >         >         >         >           Physical Characteristics         ✓         ✓         ✓         Ø         S0 g         40 g         Ø           Module Interface         70 g         70 g         70 g         50 g         90 x 80 mm         80 x 50 mm           Module Interface           To 2 x 28 pin-headers (1.27 x 1.27 mm pitch)            Envicomental Limits	Ports	2	2	2	2
RS-232/422/485 Ports         4         4         4         2           ESD Protection         15 KV         15 KV         15 KV         15 KV         15 KV           Console Port         √         √         √         √         √           Serial Communication Parameters         Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1, 5; Parity: None, Even, Odd, Space, Mark         √         √           Flow Control         RTS/CTS, XOM/XOFF, ADDC®         Baudrate         50 bps to 921.6 Kbps (non-standard baudrates supported; see user's manual for detal/s           Physical Characteristics         Flow Control         RTS/CTS, XOM/XOFF, ADDC®         50 g         40 g           Baudrate         50 bps to 921.6 Kbps (non-standard baudrates supported; see user's manual for detal/s         State		1.5 KV	1.5 KV	1.5 KV	1.5 KV
ESD Protection       15 KV       15 KV       15 KV       15 KV         Console Port       √       √       √       √         Serial Communication Parameters       Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1, 5, 2; Parity: None, Even, Odd, Space, Mark         Flow Control       RTS/CTS, X0N/X0FF, ADDC®         Baudrate       50 bps to 921.6 Kbps (non-standard bau/startes supported; see user's manual for details         Physical Characteristics       For Q         Weight       70 g       70 g         106 x 87 mm       106 x 87 mm       90 x 80 mm         Module Interface        Two 2 x 28 pin-headers (1.27 x 1.27 mm pitch)         Environmental Limits        Two 2 x 28 pin-headers (1.27 x 1.27 mm pitch)         Operating Temperature       -10 to 60°C       -10 to 60°C or -40 to 75°C         Operating Humidity       5 to 95% RH       5 to 95% RH       5 to 95% RH         Storage Temperature       -20 to 80°C       -20 to 80°C       -20 to 80°C or -40 to 85°C         Regulatory Approvals       EMC       CE (Class A), FCC       CE (EN55022 Class A, EN61000-3-2 Class A), EN5024), FCC (Part 15 Subpart B, CISPR 22 Class A)         Green Product       RoHS, CRHS, WEEE       CE Hot Storage Temperate, CISPR 22 Class A)       Not					
Console Port       √       √       √       √         Serial Communication Parameters       Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1, 5, 2; Parity: None, Even, Odd, Space, Mark       File					
Serial Communication Parameters       Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; Parity: None, Even, Odd, Space, Mark         Flow Control       RTS/CTS, XON/XOFF, ADDC®         Baudrate       50 bps to 921.6 Kbps (non-standard baudrates supported; see user's manual for details)         Physical Characteristics         Weight       70 g       70 g       50 g       40 g         Dimensions       106 x 87 mm       90 x 80 mm       80 x 50 mm         Module Interface        Two 2 x 28 pin-headers (1.27 x 1.27 mm )/// Two 2 x 28 pin-headers (1.27 x 1.27 mm )///// Two 2 x 28 pin-headers (1.27 x 1.27 mm )//////////////////////////////////					
Parameters       Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1, 5, 2; Parity: None, Even, Udd, Space, Mark         Flow Control       RTS/CTS, XON/XOFF, ADDC®         Baudrate       50 bps to 921.6 Kbps (non-standard baudrates supported; see user's manual for details)         Physical Characteristics       Veight       70 g       70 g       50 g       40 g         Dimensions       106 x 87 mm       106 x 87 mm       90 x 80 mm       80 x 50 mm         Module Interface        Two 2 x 28 pin-headers (1.27 x 1.27 mm pitch)         Environmental Limits        Two 2 x 28 pin-headers (1.27 x 1.27 mm pitch)         Operating Temperature       -10 to 60°C       -10 to 60°C or -40 to 75°C          Operating Temperature       -10 to 60°C       -10 to 60°C or -40 to 75°C          Operating Temperature       -20 to 80°C       -20 to 80°C or -40 to 75°C          Regulatory Approvals       5 to 95% RH       5 to 95% RH       5 to 95% RH       5 to 95% RH       5 to 95% CP -40 to 85°C         EMC       CE (Class A), FCC       CE (EN55022 Class A, EN61000-3-2 Class A, EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A)       EN5020/S Class A, EN61000-3-2 Class A, EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A)         EMC       CE (Class A), FCC       CE (EN55022 Class A), EN61000-3-2 Class A)       Modu0		N		N	$\mathcal{N}$
Baudrate       50 bps to 921.6 Kbps (non-standard baudrates supported; see user's manual for details)         Physical Characteristics         Weight       70 g       70 g       50 g       40 g         Dimensions       106 x 87 mm       90 x 80 mm       80 x 50 mm         Module Interface        Two 2 x 28 pin-headers (1.27 x 1.27 mm pitch)         Environmental Limits        Two 2 x 28 pin-headers (1.27 x 1.27 mm pitch)         Operating Temperature       -10 to 60°C       -10 to 60°C or -40 to 75°C          Operating Temperature       -10 to 60°C       -10 to 60°C or -40 to 75°C          Operating Temperature       -20 to 80°C       -20 to 80°C or -40 to 75°C          Regulatory Approvals       5 to 95% RH       5 to 95% RH       5 to 95% C or -40 to 85°C         EMC       CE (Class A), FCC       CE (ENS5022 Class A, EN61000-3-2 Class A, EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN61000-3-3, EN55024), FCC (P		Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; P	arity: None, Even, Odd, Space, Mark		
Physical Characteristics         Solution of the state of the s	Flow Control	RTS/CTS, XON/XOFF, ADDC®			
Weight         70 g         70 g         50 g         40 g           Dimensions         106 x 87 mm         106 x 87 mm         90 x 80 mm         80 x 50 mm           Module Interface          Two 2 x 28 pin-headers (1.27 x 1.27 mm pitch)           Environmental Limits          Two 2 x 28 pin-headers (1.27 x 1.27 mm pitch)           Operating Temperature         -10 to 60°C         -10 to 60°C or -40 to 75°C           Operating Humidity         5 to 95% RH         5 to 95% RH         5 to 95% RH           Storage Temperature         -20 to 80°C         -20 to 80°C or -40 to 85°C         -           Regulatory Approvals         -         -20 to 80°C or -40 to 85°C         -           EMC         CE (Class A), FCC         CE (EN55022 Class A, EN61000-3-2 Class A, EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A)         -           Green Product         RoHS, CROHS, WEEE         -         -           Reliability         -         -         -         -           Buzzer, RTC, WDT         √         √         √         √	Baudrate	50 bps to 921.6 Kbps (non-standard bau	Irates supported; see user's manual for deta	ails)	
Dimensions         106 x 87 mm         106 x 87 mm         90 x 80 mm         80 x 50 mm           Module Interface          Two 2 x 28 pin-headers (1.27 x 1.27 mm pitch)           Environmental Limits          Two 2 x 28 pin-headers (1.27 x 1.27 mm pitch)           Operating Temperature         -10 to 60°C         -10 to 60°C or -40 to 75°C            Operating Temperature         -10 to 60°C         -10 to 60°C or -40 to 75°C            Operating Temperature         -20 to 80°C         -20 to 80°C or -40 to 75°C            Regulatory Approvals          CE (Class A), FCC          CE (EN55022 Class A, EN61000-3-2 Class A, EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A)           Green Product         RoHS, CROHS, WEEE              Buzzer, RTC, WDT         √         √         √         √	Physical Characteristics				
Module Interface          Two 2 x 28 pin-headers (1.27 x 1.27 mm pitch)           Environmental Limits	Weight	70 g	70 g	50 g	40 g
Environmental Limits         -10 to 60°C         -10 to 60°C         -10 to 60°C or -40 to 75°C           Operating Temperature         -10 to 60°C         -10 to 60°C or -40 to 75°C         -           Operating Humidity         5 to 95% RH         5 to 95% RH         5 to 95% RH         5 to 95% RH           Storage Temperature         -20 to 80°C         -20 to 80°C or -40 to 85°C         -20 to 80°C or -40 to 85°C           Regulatory Approvals         EMC         CE (Class A), FCC         CE (EN55022 Class A, EN61000-3-2 Class A, EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A)           Green Product         RoHS, CROHS, WEEE					
Operating Temperature         -10 to 60°C         -10 to 60°C         -10 to 60°C or -40 to 75°C           Operating Humidity         5 to 95% RH         5 to 95% RH         5 to 95% RH         5 to 95% RH           Storage Temperature         -20 to 80°C         -20 to 80°C         -20 to 80°C or -40 to 75°C           Regulatory Approvals         EMC         CE (Class A), FCC         CE (EN55022 Class A, EN61000-3-2 Class A, EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A)           Green Product         RoHS, CROHS, WEEE         EMC         V         V           Buzzer, RTC, WDT         √         √         √         √	Module Interface			Two 2 x 28 pin-headers (1.27 x 1.27 mm	pitch)
Operating Humidity         5 to 95% RH         5 to 95% RH <td>Environmental Limits</td> <td></td> <td></td> <td></td> <td></td>	Environmental Limits				
Storage Temperature         -20 to 80°C         -20 to 80°C or -40 to 85°C					
Regulatory Approvals       EMC     CE (Class A), FCC     CE (Instance A), ENG1000-3-2 Class A, ENG1000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A)       Green Product     RoHS, CRoHS, WEEE       Reliability       Buzzer, RTC, WDT     √       V     √	1 0 5				5 to 95% RH
EMC     CE (Class A), FCC     CE (Instance A), FCC (Part 15 Subpart B, CISPR 22 Class A, EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A)       Green Product     RoHS, CRoHS, WEEE       Reliability       Buzzer, RTC, WDT     √		-20 to 80°C	-20 to 80°C	-20 to 80°C or -40 to 85°C	
Environment     Cite (class A), rec     15 Subpart B, CISPR 22 Class A)       Green Product     RoHS, CRoHS, WEEE       Reliability       Buzzer, RTC, WDT     √	Regulatory Approvals				
Green Product     RoHS, CRoHS, WEEE       Reliability       Buzzer, RTC, WDT       √	EMC	CE (Class A), FCC		CE (EN55022 Class A, EN61000-3-2 Class 15 Subpart B, CISPB 22 Class A)	s A, EN61000-3-3, EN55024), FCC (Part
Reliability       Buzzer, RTC, WDT     √	Green Product	RoHS, CRoHS, WEEE		to output b, ofor the output A)	
Buzzer, RTC, WDT √ √	Reliability				
Warranty 5 years (see www.moxa.com/warranty)	Buzzer, RTC, WDT		$\checkmark$		
	Warranty	5 years (see www.moxa.com/warranty)			

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# **DIN-Rail Computers**

2PU Sead     200 Matr.     64 Matr.		I		-	-	-	-		
2PU Sead     200 MHz		IA260-CE IA260-T-CE	IA260-LX IA260-T-LX	IA261-I-LX IA261-I-T-LX	IA261-I-CE IA261-I-T-CE	IA262-I-LX IA262-I-T-LX	IA262-I-CE IA262-I-T-CE	IA240-LX IA240-T-LX	IA241-LX IA241-T-LX
Dispresentation         Winde E 0         Linux         Winde E 0         Linux         Winde E 0         Enhanced Linux           DRAM         128 M61 (26 M8 max)         T         Mark 100 (26 M2 max)         20 M8         32 M81	Computer								
DRAM         12 AM (26 A HB mac)         V         Set Ma (26 A HB mac)         V         Set Ma (26 A HB mac)									192 MHz
Bah         S2 MB         S	(, ,			LINUX	WINCE 6.0	LINUX	WINCE 6.0		C4 MD
CRUCIA                  N         N           Staf Parts         2 (USB 2.0)         2 (USB 2.0) <td></td> <td>`</td> <td>'</td> <td>32 MB</td> <td>32 MB</td> <td>32 MB</td> <td>22 MB</td> <td></td> <td></td>		`	'	32 MB	32 MB	32 MB	22 MB		
BSB Pends         2 (USB 2.0)         2 (USB 2.0)         2 (USB 2.0)         2 (USB 2.0)         4 (USB 2.0)		`	1						
Digital I/O         8 Dis, 8 DOs         4 Dis, 4 DOs           SD Sind	USB Ports								
Storage         V </td <td>Digital I/O</td> <td>. ,</td> <td>· · · · ·</td> <td>· · · ·</td> <td>· /</td> <td>· · · ·</td> <td>· · · · ·</td> <td>· · · · ·</td> <td>· · · · ·</td>	Digital I/O	. ,	· · · · ·	· · · ·	· /	· · · ·	· · · · ·	· · · · ·	· · · · ·
Domentalization Solution         V         V         V         V         V                           V	•							,	
SD Slot     n=     n=     n=     n=     n=     √     √     √       Display     N     √     √     √     √     √      N       AM InderSo     V     2 <td><u> </u></td> <td><math>\checkmark</math></td> <td><math>\checkmark</math></td> <td>V</td> <td><math>\checkmark</math></td> <td></td> <td></td> <td></td> <td></td>	<u> </u>	$\checkmark$	$\checkmark$	V	$\checkmark$				
Display         V </td <td>SD Slot</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SD Slot								
Singhies Controller         V         V         V         V         V         ····         ····           ARI Interface         ····         ARI Interface         ·····         ····         ·····         ····         ····         ····         ····         ····									
All Interface         2         <	Graphics Controller			V					
D10100 Mops Ethernet Ports         2         2         2         2         2         2         2           Magnetic loolation Protection         1.5 KV         1.5									
Profescion Profescin Profescion Profescion Profescion Profescion Profescion	10/100 Mbps Ethernet Ports	2	2	2	2	2	2	2	2
RS-232/422/485 Ports         4 (DB9-M)         4 (DB9-M)         4 (DB9-M)         2 (DB9-M)         2 (DB9-M)         4 (R,45)         4 (R,45)         4 (R,45)           SSD Protection           15 KV         200	Magnetic Isolation Protection	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV	1.5 KV
ESD Protection           15 kV         16 kV         16 kV	Serial Interface								
ESD Production          15 KV	RS-232/422/485 Ports	4 (DB9-M)	4 (DB9-M)	4 (DB9-M)	4 (DB9-M)	2 (DB9-M)	2 (DB9-M)	4 (RJ45)	4 (RJ45)
Canasite Part         I <thi< th=""> <thi< th=""> <thi< th=""> <thi< td=""><td>ESD Protection</td><td></td><td></td><td></td><td></td><td>· · ·</td><td></td><td></td><td></td></thi<></thi<></thi<></thi<>	ESD Protection					· · ·			
Serial Communication Pranameters         Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; Parity: None, Even, Odd, Space, Mark           Brance         TS/CTS, X0N/XOFF, ADDC®           Baudrate         50 bps to 921.6 Kbps (non-standard baudrates supported)          2 (DB9-M)         2 (DB9-M)             Baudrate         50 bps to 921.6 Kbps (non-standard baudrates supported)          2 (DB9-M)         2 (DB9-M)             CAN         10M, 100M         10M, 10M         10M, 10M <t< td=""><td>Digital Isolation</td><td></td><td></td><td>2 KV</td><td>2 KV</td><td>2 KV</td><td>2 KV</td><td></td><td></td></t<>	Digital Isolation			2 KV	2 KV	2 KV	2 KV		
Parameters Data Bits 's o, ', o' stop Bits ', 1, 2, 2 Parity: None, Even, Volu, Space, Mark Flow Control MTS/CTS, XDN/XOFF, ADDC® Baudrate 50 bps 0 921.6 K/ps (non-standard baudrates supported) CANbus 2 (DB9-M) 2 (DB9-M) EDS ELEOS ELEOS ELEOS ELEOS ELEOS ELEOS ELEOS Power, Ready, Storage TxD, RxD TxD,	Console Port	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Baudrate         50 bps to 921.6 Kbps         rnn-         and         2 (DB9-M)         2 (DB9-M)             CANbus           2 (DB9-M)         2 (DB9-M)              LEDS           2 (DB9-M)         2 (DB9-M)              System         Power, Ready, Storau          TxD, RxD	Serial Communication Parameters			Parity: None, Even, Oc	ld, Space, Mark				
CANbus           2 (DB9-M)         2 (DB9-M)              LEDs         System         Power, Ready, Storage           10M, 100M         10M, 10M         10M, 100M         10M, 10M									
LEDs         Power, Ready, Storage           System         Power, Ready, Storage           LAN         10M, 100M         10M         10M						0 (DD0 M)	0 (DD0 M)		
System         Power, Ready, Storage           LAN         10M, 100M         10M						2 (DB9-IVI)	2 (DB9-IVI)		
LAN       10M, 100M       10M, 10M       10M, 10M <th< td=""><td></td><td>Dawan Daadu Chan</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		Dawan Daadu Chan							
Serial         TxD, RxD				1004 10004	1014 10014	1014 10014	1004 10004	1004 10004	1004 10004
Physical Characteristics       Aluminum, industrial vertical form factor       Aluminum, industrial vertical form factor       Aluminum (1 mm)         Weight       1 kg       1 kg       950 g       950 g<									
HousingAluminum, industrial vertical form factorAluminum (1 mm)Weight1 kg1 kg950 g950 g950 g950 g950 g430 g500 gDimensions $52 \times 112.6 \times 162$ mm $52 \times 112.6 \times 162$ mm $52 \times 112.6 \times 162$ mm $60 \times 115 \times 152$ mm $60 \times 113 \times 100$ mm $60 \times 137 \times 100$ mm<		170,1170	170, 1170	170, 1170	170,1170	170, 1170	TAD, TIAD	170, 1170	TAD, TIAD
Weight         1 kg         1 kg         1 kg         950 g         950 g         950 g         950 g         950 g         950 g         430 g         500 g           Dimensions         52 x 112.6 x 162 mm         52 x 112.6 x 162 mm         60 x 115 x 152 mm         60 x 137 x 100 mm         mm <t< td=""><td></td><td>Aluminum inductri</td><td>al vertical form factor</td><td></td><td></td><td></td><td></td><td>Aluminum (1 mm)</td><td></td></t<>		Aluminum inductri	al vertical form factor					Aluminum (1 mm)	
Signal         52 x 112.6 x 162 mm         52 x 112.6 x 162 mm         60 x 115 x 152 mm         60 x 137 x 100 mm	-				950 a	950 a	950 α	```	500 α
mm		0	0		0	0		°	°
Environmental Limits         Operating Temperature       -10 to 60°C or -40 to 75°C         Operating Humidity       5 to 95% RH		mm	mm	mm	mm	mm	mm	mm	mm
Operating Temperature       -10 to 60°C or -40 to 75°C         Operating Humidity       5 to 95% RH	Mounting	DIN-Rail, wall	DIN-Rail, wall	DIN-Rail, wall	DIN-Rail, wall	DIN-Rail, wall	DIN-Rail, wall	DIN-Rail, wall	DIN-Rail, wall
Operating Humidity         5 to 95% RH         5 to 95% RH <td>Environmental Limits</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Environmental Limits								
-20 to 80°C or -40 to 85°C         Regulatory Approvals         EMC       CE (EN55022 Class A, EN61000-3-2 Class A, EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), CCC (Part	Operating Temperature								
Regulatory Approvals         CE (EN55022 Class A, EN61000-3-2 Class A, EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), CCC         CE (EN55022 Class A, EN61000-3-2 Class A, EN61000-3-2, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), CCC         CE (EN55022 Class A, EN61000-3-2 Class A, EN61000-3-2, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), CCC         CE (EN55022 Class A, EN61000-3-2 Class A, EN61000-3-2, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), CCC         CE (EN55022 Class A, EN61000-3-2 Class A, EN61000-3-2 Class A, EN61000-3-2, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), CCC         CE (EN55022 Class A, EN61000-3-2 Class A, EN61000-3-2 Class A, EN61000-3-2 Class A), EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), CCC         CE (EN55022 Class A, EN61000-3-2 Class A, EN6100-3-2 Class A, EN6100-3-2 Class A, EN6100-2-2 Clase A, EN6100-2-2 Class A, EN6100-2-2 Class A, EN6100-2-2 Clase A,	Operating Humidity			5 to 95% RH	5 to 95% RH	5 to 95% RH			
EMC         CE (EN55022 Class A, EN61000-3-2 Class A, EN61000-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), CCC         CE (EN55022 Class A, EN61000-3-2 Class A, EN61000-3-2 Class A, EN61000-3-2 Class A), EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN51024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN5102-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN5102-3-3, EN55024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN61000-3-2 Class A, EN61000-3-2 Class A), EN51024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN51024), FCC (Part 15 Subpart B, CISPR 22 Class A), EN61000-3-2 Class A, EN6100-3-2 Clas A, EN6100-3-2 Clas A, EN6100-3-2 Class A, EN6100-3-2		-20 to 80°C or -40	to 85°C						
EMC       Class A, EN61000-3-2 Class A, EN61000-3-2, EN55024), FCC (rait 15 Subjart B, CISPR 22 Class A), CCC       Class A, EN61000-3-3, EN55024), FCC         Safety       UL/cUL (UL60950-1, CSA C22.2 No. 60950-1-03), LVD (EN60950-1), CCC (GB4943)       UL/cUL (UL60950-1, CSA C22.2 No. 60950-1.03), TVV (EN60950-1)         Green Product       RoHS, CROHS, WEEE       Enerror         Reliability       V       V       V       V         Buzzer, RTC, WDT       V       V       V       V       V	Regulatory Approvals								
Safety         UL/cUL (UL60950-1, CSA C22.2 No. 60950-1-03), LVD (EN60950-1), CCC (GB4943)         UL/cUL (UL60950-1, CSA C22.2 No. 60950-1, CSA C22.2 No. 60950-1-03), TUV (EN60950-1)           Green Product         RoHS, CRoHS, WEEE         V         V         Kelfability           Buzzer, RTC, WDT         √<	EMC	(GB9254, GB 17625.1) (GB9254, GB 17625.1) (GB9254, GB 17625.1)							
Buzzer, RTC, WDT     V     V     V     V     V     V     V     V     V	Safety	UL/cUL (UL60950-	1. CSA C22.2 No. 609	50-1-03), LVD (EN60	950-1), CCC (GB4943)			UL/cUL (UL60950-	1, CSA C22.2 No.
Reliability Buzzer, RTC, WDT $\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$					,, (0.2.1310)			60950-1-03), fUV	(EN60950-1)
Buzzer, RTC, WDT 🗸 🗸 🗸		nono, onono, WE	LL						
	Buzzer, RTC, WDT Warranty			N	N	V	N	N	V

# **RISC-based WLAN Computers**





	W311-LX	W321-LX	W341-LX			
Computer						
CPU Speed	192 MHz	102 MHz	102 MHz			
OS (pre-installed)	192 MHz     192 MHz     192 MHz       Embedded Linux with MMU support     192 MHz     192 MHz					
DRAM	32 MB	32 MB	64 MB			
Flash	16 MB	16 MB	16 MB			
USB Ports			2 (USB 2.0)			
Relay Output						
Storage						
SD Slot		$\checkmark$				
LAN Interface						
10/100 Mbps Ethernet Ports	1	1	1			
Magnetic Isolation Protection	1.5 KV	1.5 KV	1.5 KV			
100BaseFX Fiber Ports (multi-mode)						
WLAN Interface						
Standard Compliance	802.11a/b/g					
Radio Frequency Type	DSSS, CCK, OFDM					
Transmission Rate	54 Mbps (max.) with auto fallback (54, 48, 36, 24, 18, 1 • 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11b: 1, 2, 5.5, 11 Mbps	2, 11, 9, 6, 5.5, 2, 1 Mbps)				
Transmission Distance	Up to 100 meters (@ 11 Mbps in open areas)					
Wireless Security	WEP: 64-bit/128-bit, WPA, WPA2 data encryption					
WLAN Modes	Ad-hoc (802.11b/g), Infrastructure					
Serial Interface						
RS-232/422/485 Ports	1 (DB9-M)	2 (DB9-M)	4 (DB9-M)			
ESD Protection	15 KV	15 KV	15 KV			
Console Port	$\checkmark$	$\checkmark$	$\checkmark$			
Serial Communication Parameters	Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2; Parity: None, Ev	ven, Odd, Space, Mark				
Flow Control Baudrate	RTS/CTS, XON/XOFF, ADDC™	-0				
	50 bps to 921.6 Kbps (non-standard baudrates supported	ed)				
LEDs			B 1 0B			
System LAN	Ready, SD	Ready, SD	Ready, SD			
WLAN	10M, 100M Enable, Signal Strength	10M, 100M	10M, 100M			
Serial	TxD, RxD	TxD, RxD	TxD, RxD			
Physical Characteristics	170, 1170	170, 110	170,1170			
Housing	Aluminum (1 mm)					
Weight	170 g	185 g	390 g			
Dimensions	77 x 111 x 26 mm	77 x 111 x 26 mm	150 x 100 x 38 mm			
Mounting	DIN-Rail, wall	DIN-Rail, wall	DIN-Rail, wall			
Environmental Limits						
Operating Temperature	-10 to 60°C	-10 to 60°C	-10 to 60°C			
Operating Humidity	5 to 95% RH	5 to 95% RH	5 to 95% RH			
Storage Temperature	-20 to 80°C	-20 to 80°C	-20 to 80°C			
Anti Vibration/Shock	5g/50g	5g/50g	5g/50g			
Regulatory Approvals						
EMC	CE (ETSI EN 301 489-1/-17, ETSI EN 301 893, ETSI EN	300 328, EN50392), FCC Part 15C & Part 15E				
Safety	UL/cUL (UL60950-1), TÜV (EN60950-1)					
Green Product	RoHS, CRoHS, WEEE					
Reliability						
Buzzer, RTC, WDT		$\checkmark$	$\checkmark$			
Warranty	5 years (see www.moxa.com/warranty)					

## **Cellular Computers**

