

LANTRONIX® EXTERNAL NETWORKING DEVICES

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Features

Category	Wired Device Server									
Connectivity	Serial-to-Ethernet	Serial-to-Ethernet	Serial-to-Ethernet	Serial-to-Ethernet	Serial-to-Ethernet	Serial-to-Ethernet	Serial-to-Ethernet	Serial-to-Ethernet	Serial-to-Ethernet	Serial-to-Ethernet
Operating System	CoBos	CoBos	CoBos	CoBos	CoBos	Evolution OS*	Evolution OS*	Evolution OS*	Evolution OS*	Evolution OS*
DHCP, BOOTP, and AutoIP	•	•	•	•	•	•	•	•	•	•
FTP/TFTP	-/•	-/•	-/•	-/•	-/•	•/•	•/•	•/•	•/•	•/•
Telnet	•	•	•	•	•	•	•	•	•	•
SSH/SSL						•	•	•	•	•
SNMP	V1 read only	V1 read only	V1 read only	V1 read only	V1 read only	V2c	V2c	V2c	V2c	V2c
Web Manager	•	•	•	•	•	•	•	•	•	•
Hostlist (Sequential-host)	•	•	•	•	•	•	•	•	•	•
Hostlist (Multi-host)						•	•	•	•	•
Serial Tunneling	•	•	•	•	•	•	•	•	•	•
Modem Emulation	•	•	•	•	•	•	•	•	•	•
Modbus	(model specific)		(model specific)	(model specific)		•	•	•	•	
Email Notification						•	•	•	•	•
Serial Interface	RS-232/422/485	RS-232/422/485 x 2	RS-232 or RS-232/422/485 (model specific)	RS-232/RS-422/485	RS-232 x 1 RS-232/422/485 x 1	RS-232/422/485 x 1	RS-232/422/485 x 2	RS-232 x 2 RS-232/422/485 x 2	RS-232 x 8 RS-232 x 16 (model specific)	RS-232 x 8, RS-232 x 16, RS-232 x 32 (model specific)
Serial Connector Type	DB25, Female, DCE	DB9, Male, DTE	DB9, Female, DCE	RJ45 (RS-232/422/485) Terminal Block(RS485 only)	RJ45 (SP1, SP2) Terminal Block (SP2, RS 485 only)	DB25, Female, DCE	DB9, Male, DTE	DB9, Male, DTE	RJ45	RJ45
Serial Data Rate (bps)	300 - 230400	300 - 230400	300 - 921600	300 - 115200	300 - 230400	300 - 230400	300 - 230400	300 - 230400	300 - 230400	300 - 230400
PoE (Power-over-Ethernet)	(model specific)		(model specific)					•		
Flash/RAM	2MB / 256KB	2MB / 256KB	1MB / 256KB	512KB/256KB	2MB / 256KB	8MB / 8MB	8MB / 8MB	8MB / 32MB	8MB / 64MB	8MB / 64MB
Network Interface	10/100Base-T	10/100Base-T	10/100Base-T	10/100Base-T	10/100Base-T x 2	10/100Base-T	10/100Base-T	10/100Base-T	10/100Base-T	10/100Base-T
Power Input	9-30 VDC or 9-24 VAC (Barrel Connector)	9-30 VDC or 9-24 VAC (Barrel Connector)	5-15 VDC (Mini-USB) 5-15 VDC (D89F Pin 9) 802.3af Compliant (PoE model only)	9-30 VDC or 9-24 VAC (Terminal Block)	9-30 VDC or 9-24 VAC (Terminal Block)	9-30 VDC	9-30 VDC	9-30 VDC (Barrel Connector) 42-56 VDC (Terminal Block)	100-240 VAC (50-60Hz IEC-type cord)	100-240 VAC (50-60Hz IEC-type cord)
Serial Interface Transient Protection	15 KV ESD	15 KV ESD	15 KV ESD	15 KV ESD	15 KV ESD	15 KV ESD	15 KV ESD	15 KV ESD	15 KV ESD	15 KV ESD
Max. Power Use (Watts)	1.5 W	1.8 W	1.3 W (non-PoE models) 2 W (PoE model)	3 W	2.3 W	1.8 W	1.8 W	4 W	20 W	20 W
Dimensions (LxWxH)	9.0 x 6.4 x 2.3 cm 3.5 x 2.5 x .09 in	9.5 x 7.2 x 2.3 cm 3.7 x 2.8 x 0.9 in	24.0 x 3.3 x 2.9 cm 9.5 x 1.3 x 1.1 in (length includes serial cable)	6.1 x 3.6 x 8.8 cm 2.4 x 1.4 x 3.5 in	8.8 x 5.7 x 12.3 cm 3.45 x 2.25 x 4.85 in	9.0 x 6.4 x 2.3 cm 3.5 x 2.5 x 0.9 in	9.5 x 7.2 x 2.3 cm 3.7 x 2.8 x 0.9 in	12.7 x 17.7 x 3.8 cm 5.0 x 6.95 x 1.5 in	8 port: 12.8 x 22.7 x 4.3 cm 5.0 x 8.9 x 1.7 in 16 port: 12.8 x 22.7 x 6 cm 5.0 x 8.9 x 2.7 in	30.5 x 43.8 x 4.34 cm 12 x 17.25 x 1.75 in
Operating Temperature C°/F°	-40°C to 70°C -40°F to 167°F	0°C to 60°C 32°F to 140°F	-40°C to 85°C, non PoE model -40°C to 70°C, PoE model	0°C to 60°C 32°F to 140°F	-40°C to 70°C -40°F to 158°F	-40°C to 85°C -40°F to 185°F	-40°C to 85°C -40°F to 185°F	0°C to 55°C 32°F to 131°F	0°C to 55°C 32°F to 131°F	0°C to 50°C 32°F to 151°F
Warranty	2-Year Limited	2-Year Limited	5-Year Limited	1-Year Limited	2-Year Limited	2-Year Limited	2-Year Limited	2-Year Limited	2-Year Limited	2-Year Limited

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Features	IntelliBox®	EDS-MD®	XPress™DR+ Wireless	WiBox®	PremierWave® XN	PremierWave® XC GPRS	PremierWave® XCHSPA+	xSenso® 2100	xSenso® 21A2	xSenso® 21R2
Category	Wired Device Server		Wireless Device Server		Intelligent Gateway			Analog Device Server	Analog Device Controller	
Connectivity	Serial-to-Ethernet	Serial-to-Ethernet	Serial-to-WiFi	Serial-to-WiFi	Ethernet-to-Wi-Fi Serial-to-WiFi Serial-to-Ethernet	Serial to Cellular Serial-to-Ethernet	Ethernet-to-Cellular Serial to Cellular Serial-to-Ethernet	Analog-to-Ethernet	Analog-to-Ethernet	Analog-to-Ethernet
Operating System	Evolution OS®	Linux	CoBos	CoBos	Linux	Linux	Linux	Linux	Linux	Linux
DHCP, BOOTP, and AutoIP	•	•	•	•	•	•	•	•	•	•
FTP/TFTP	•/•	•/•	-/•	-/•	•/•	•/•	•/•	•/-	•/-	•/-
Telnet	•	•	•	•	•	•	•	•	•	•
SSH/SSL	•	•	•	•	•	•	•	•	•	•
SNMP	V2c	V2c	V1 read only	V1 read only	V2c	V2c	V2c	V3	V3	V3
Web Manager	•	•	•	•	•	•	•	•	•	•
Hostlist (Sequential-host)	•	•	•	•	•	•	•	•	•	•
Hostlist (Multi-host)	•	•	•	•	•	•	•	•	•	•
Serial Tunneling	•	•	•	•	•	•	•	•	•	•
Modem Emulation	•	•	•	•	•	•	•	•	•	•
Modbus	•	•	•	•	•	•	•	•	•	•
Email Notification	•	•	•	•	•	•	•	•	•	•
Wireless Technology			802.11 b/g	802.11 b/g	802.11 a/b/g/n 2.4GHz and 5GHz	GSM/GPRS	UMTS/HSPA+ GSM/GPRS/EDGE			
802.11 Bridging			•	•	•					
Wireless (Wi-Fi) Security			WEP, WPA-PSK, 802.11i	WEP, WPA-PSK, WPA2-PSK	WEP, WPA-PSK, WPA2-PSK & Enterprise (EAP, PEAP, LEAP)					
Serial Interface	RS-232 x 1 RS-422/485 x 1	RS-232 x 4 RS-232 x 8 RS-232 x 16 (model specific)	RS-232 x 1 RS-232/422/485 x 1	RS-232 x 1 RS-232/422/485 x 1	RS-232/422/485 x 2	RS-232/422/485 x 2	RS-232/422/485 x 2			
Serial Connector Type	Terminal Block	RJ45 (IEC-60601 compliant)	RJ45 (SP1, SP2), Terminal Block (SP2, RS485 only)	DB9, Male, DTE	DB9, Male, DTE	DB9, Male, DTE	DB9, Male, DTE			
Serial Data Rate (bps)	300 - 230400	300 - 921600	300 - 230400	300 - 921600	300 - 921600	300 - 921600	300 - 921600			
Digital I/O	Digital Input x 2 Relay Output x 1					Digital Input x 2 Relay Output x 1	Digital Input x 2 Relay Output x 1			Relay Output x 2
Analog Input								Analog Input x 2 Voltage/Current Range: ±100mV, ±1V, ±10V, ±20mA	Analog Input x 2 Voltage/Current Range: ±100mV, ±1V, ±10V, ±20mA	Analog Input x 2 Voltage/Current Range: ±100mV, ±1V, ±10V, ±20mA
Analog Output									Analog Output x 2 Voltage/Current Range: 0-10V, 0-20mA	
PoE (Power-over-Ethernet)										
Flash/RAM	4MB / 2MB	8MB / 256MB	2MB / 256KB	2MB	64MB / 64MB	64MB / 64MB	64MB / 64MB	64MB / 128MB	64MB / 128MB	64MB / 128MB
Network Interface	10/100Base-T	10/100/1000Base-T	10/100Base-T x 2	10/100Base-T	10/100Base-T	10/100Base-T	10/100Base-T	10/100Base-T	10/100Base-T	10/100Base-T
Power Input	9-30 VDC or 9-24 VAC (Terminal Block)	100-240 VAC (IEC-60320 compliant)	9-30 VDC or 9-24 VAC (Terminal Block)	9-30 VDC or 9-24 VAC	9-30 VDC	9-30 VDC (Barrel Connector) 9-30 VDC (Terminal Block)	9-30 VDC (Barrel Connector)	9-30 VDC (Barrel Connector) 9-30 VDC (Terminal Block)	9-30 VDC (Barrel Connector) 9-30 VDC (Terminal Block)	9-30 VDC (Barrel Connector) 9-30 VDC (Terminal Block)
Serial Interface Transient Protection	15 KV ESD	15 KV ESD	15 KV ESD	4 KV ESD	15 KV ESD	15 KV ESD	15 KV ESD			
Max. Power Use (Watts)	2.3 W	23 W	2.6 W	2 W	2.25 W (without USB load)	3.0 W (without USB load)	3.0 W (without USB load)	3.0 W (without excitation) 3.5 W (with excitation)	3.0 W (without excitation) 3.5 W (with excitation)	3.0 W (without excitation) 3.5 W (with excitation)
Dimensions (LxWxH)	11.5 x 10.9 x 2.3 cm 4.54 x 4.3 x 0.9 in	21.0 x 19.0 x 6.0 cm 8.25 x 7.5 x 2.4 in	18.7 x 22.9 x 11.1 cm 7.375 x 9.0 x 4.375 in	9.5 x 7.2 x 2.3 cm 3.7 x 2.8 x 0.9 in	11 x 8.9 x 2.6 cm 4.3 x 3.5 x 1.0 in	10.8 x 8.5 x 2.9 cm 4.2 x 3.3 x 1.1 in	10.9 x 10.9 x 3.0 cm 4.3 x 4.3 x 1.2 in	12.2 x 8.9 x 2.54 cm 4.8 x 3.5 x 1 in	13.34 x 8.89 x 2.54 cm 5.5 x 3.5 x 1 in	13.34 x 8.89 x 2.54 cm 5.5 x 3.5 x 1 in
Operating Temperature C°/F°	-40°C to 75°C -40°F to 167°F	0°C to 55°C 32°F to 131°F	-40°C to 70°C -40°F to 158°F	-40°C to 70°C -40°F to 158°F	-40°C to 70°C -40°F to 158°F	-40°C to 85°C -40°F to 185°F	-40°C to 70°C -40°F to 158°F	-40°C to 85°C -40°F to 185°F	-40°C to 85°C -40°F to 185°F	-40°C to 85°C -40°F to 185°F
Warranty	2-Year Limited	5-Year Limited	2-Year Limited	2-Year Limited	5-Year Limited	5-Year Limited	5-Year Limited	5-Year Limited	5-Year Limited	5-Year Limited

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