

XPress-Pro SW Series Hardened Ethernet Switches

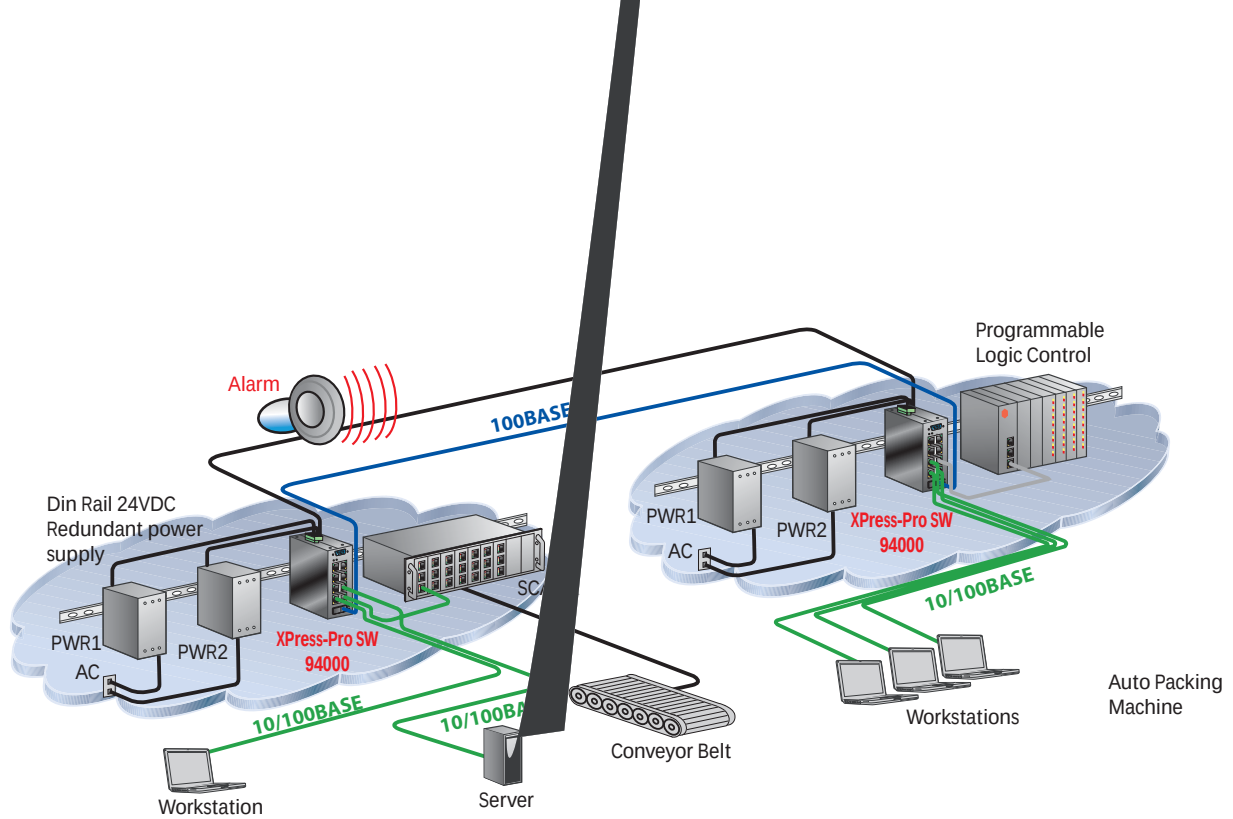
Enabling Communication for the Demanding Industrial Environment

Part of the DeviceLinx™ family of network-enablement products, XPress-Pro™ SW series managed and unmanaged Ethernet switches are designed to give you performance you can count on in harsh industrial environments.

Whether they're on the factory floor or in the field, XPress-Pro switches will provide flawless communication when you need it most.

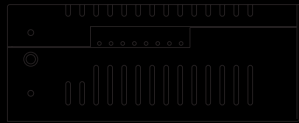
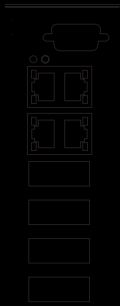
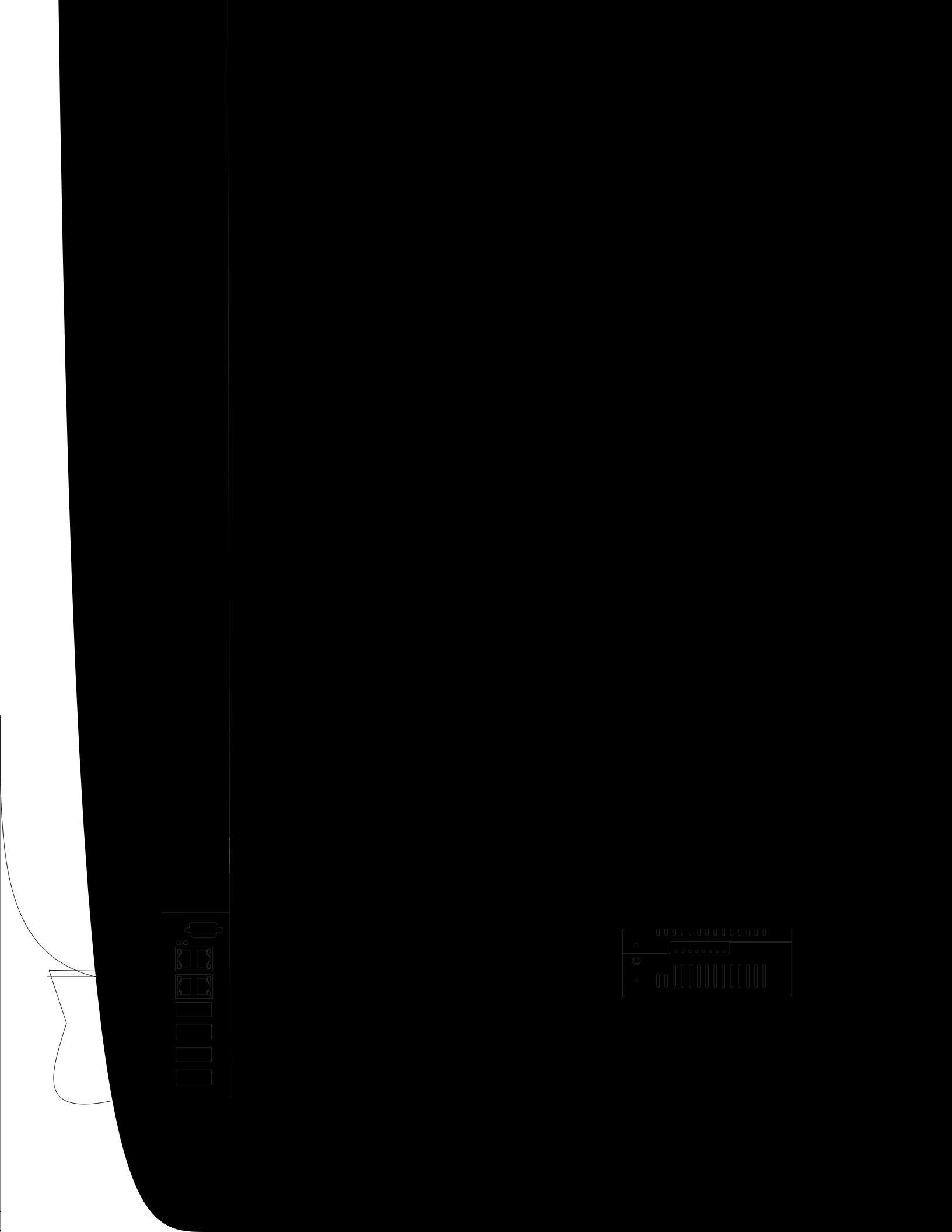
Combined with our industrial device servers, this complete line of rugged, dependable and affordable switches delivers a robust industrial device networking solution.

DeviceLinx™



XPress-Pro Industrial Ethernet Switches are DIN-rail mountable and offer:

- Compliant with IEC61000-6-2 EMC generic immunity standard for the industrial environment
- Full wire-speed forwarding rate
- Alarms for power failure by relay output (8-port only)
- Fiberoptic interfaces









XPress-Pro SW Model:	52000		92000	94000
Designation			100Base-FX	
Typical Distance			2 Km	
Nominal Wavelength			1310 nm	
Cable Type			62.5/125 mm	
Connector			SC	
Optical Budget			15 dB	
Serial Interface	5-port 10/100Base-TX or 4-port 10/100Base-TX plus 1-port 100Base-FX	8-port 10/100Base-TX	8-port 10/100Base-TX, plus 1-port 100Base-FX (optional)	
Forward and Filtering Rate	14,880 pps for 10 Mbps 148,810 pps for 100 Mbps	148,810 pps for 100 Mbps 14,880 pps for 10 Mbps	14,880 pps for 10 Mbps 148,810 pps for 100 Mbps	
Address Table Size	2048 MAC addresses	2048 MAC addresses	4K MAC addresses	
Latency	Less than 5.1 μs	Less than 7.1 μs	Less than 9.6 μs	
Reverse Polarity Protection	n/a	n/a	Yes	
Network Interface	10/100 Mbps full/half-duplex, auto negotiation, auto MDI/MDIX	10/100 Mbps full/half-duplex, auto negotiation, auto MDI/MDIX	10/100 Mbps full/half-duplex, auto negotiation, auto MDI/MDIX	
LED Indicators	Per Unit: Power Status Per Port: 10/100TX, 100FX: Link/Activity (Green), Speed (Yellow)	Per Unit: Power Status (Power 1, Power 2) Per Port: 10/100TX, 100FX: Link/Activity (Green), Speed (Yellow), Fault (Red)	Per Unit: Power Status (Power 1, Power 2) Per Port: 10/100TX, 100FX: Link/Activity (Green), Speed (Yellow)	
Management	n/a	n/a	RS-232 console, Telnet, SNMP V1 & V2, RMON, Web browser, TFTP	
Alarm Contact	n/a	One relay output with current 1A @ 24 VDC	One relay output with current 1A @ 24 VDC	
Standards	IEEE802.3 10Base-T, IEEE802.3u 100 Base-TX/100Base-FX, IEEE802.3x	IEEE802.3 10Base-T, IEEE802.3u 100 Base-TX/100Base-FX, IEEE802.3x	IEEE802.3 10Base-T, IEEE802.3u 100 Base-TX/100Base-FX IEEE802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1w	
Power	Input Voltage: 12 to 48 VDC Input Current: 0.1A max. Power Consumption: 2.4W max.	Input Voltage: 10 to 48 VDC Input Current: 1.5A max. Power Consumption: 24 VDC @ 0.55A, 18.48 W max.	Input Voltage: 10 to 30 VDC Input Current: 2A max. Power Consumption: 24 VDC @ 0.77A, 18.48 W max.	
Environmental	Operating Temperature: -10° to 60° °C (-14° to 140° F) Storage Temperature: -25° to 85° C (-13° to 185° F) Humidity: 10% to 90% relative humidity (non-condensing)	Operating Temperature: -34° to 74° °C (-29° to 165° F) Storage Temperature: -40° to 85° C (-40° to 185° F) Humidity: 10% to 95% relative humidity (non-condensing)	Operating Temperature: -34° to 74° °C (-29° to 165° F) Storage Temperature: -40° to 85° C (-40° to 185° F) Humidity: 10% to 95% relative humidity (non-condensing)	
Protocols Supported	n/a	n/a	IGMP, GVRP, SNMP V1/V2, RMON, TFTP	
Packet Buffer Memory	384 kilobit	768 kilobit	256 KB	
Packaging	Plastic case with DIN-rail mounting	Aluminum case with DIN-rail, or panel mounting	Aluminum case with DIN-rail, panel or rack mounting	
Dimensions:	25 mm W x 70 mm D x 110 mm H (0.99" W x 2.76" D x 4.33" H)	50 mm W x 110 mm D x 136 mm H (1.97" W x 4.33" D x 5.35" H)	50 mm W x 125 mm D x 135 mm H (1.97" W x 4.92" D x 5.31" H)	
Weight:	0.2 Kg (0.44 lbs.)	0.8 Kg (1.76 lb)	0.8 Kg (1.76 lb)	
Processing Types		Store-and-forward Half-duplex back-pressure and IEEE802.3x full-duplex flow control		
Standards	IEEE802.3 10Base-T, IEEE802.3u 100 Base-TX/100Base-FX, IEEE802.3x			
Regulatory Approvals:				
Emission Compliance	FCC Part 15, Class A			
ISO		Manufactured in an ISO9001 facility		
Safety	UL 60950	UL 60950, EN 60950, IEC 60950, IEC 61000-6-2, UL 1604: Classified for ITE Equipment for use in hazardous locations: Class 1, Division 2 group A, B, C & D: Temp Code T4A; -25C° < Tamb < 74C°		
CE Approval	n/a	EN55022 (CISPR22 Class A), EN55024 (CISPR24 Class A)		
ESD Standards (IEC 61000-4-2)	n/a	Enclosure Contact: + / - 4 KV; Criteria B, Enclosure Air: + / - 8 KV; Criteria B		
Radiated FRI Standards (IEC 61000-4-3)	n/a	Enclosure Ports: 10 V/m, 80 to 1000 MHz; Criteria A		
Burst Standards (IEC 61000-4-4)	n/a	Enclosure Ports: + / - 4 KV @ 2.5 KHz; Criteria B, DC Power Ports: + / - 4 KV; Criteria B, AC Power Ports: + / - 4 KV; Criteria B		
Surge Standards (IEC 61000-4-5)	n/a	Signal Ports: + / - 1 KV; Line-to-earth; Criteria B, DC Power Ports: + / - 0.5 KV; Line-to-earth; Criteria B AC Power Ports: + / - 2 KV; Line-to-earth; Criteria B		
Induced RFI Standards (IEC 61000-4-6)	n/a	Signal Ports: 10V @ 0.15 - 80 MHz; Criteria A, DC Power Ports: 10V @ 0.15 - 80 MHz; Criteria A AC Power Ports: 10V @ 0.15 - 80 MHz; Criteria A, Earth Ground Ports: 10V @ 0.15 - 80 MHz; Criteria A		
Magnetic Field Standards (IEC 61000-4-8)	n/a	Enclosure Ports: 30 A/m @ 50, 60 Hz; Criteria A		
Voltage Dip Standards (IEC 61000-4-11)	n/a	AC Power Ports: 30% Reduction for 0.5 period; Criteria B		
Environmental Test Compliance	n/a	(IEC 60068-2-6) Vibration Resistance: 5G @ 150 Hz; Criterion 3 (Operation/Storage/Transport) (IEC 60068-2-27) Shock: • 5 G @ 11 ms (Half-Sine Shock Pulse; Operation) • 50 G @ 11 ms (Half-Sine Shock Pulse; Storage/Transport) (IEC 60068-2-32) Free Fall: 1 M (3.281 ft.)		
NEMA TS1/2 Environ. Requirements for Traffic Control Equipment	n/a	Yes		
Installation Type:	DIN Rail (mounting kit is included)	DIN Rail (mounting kit is included) Optional wall-mount kit, ordered separately (X9294PMKT-01)	DIN Rail (mounting kit is included) Optional wall-mount or rack-mount kit, ordered separately (X9294DRKT-01), (X9294PMKT-01)	

XPress-Pro Industrial Power Supply

Product Description:

30W / 1.5A DIN-rail 24 VDC industrial power supply

Input:

85 to 264 VAC (47 to 63 Hz) or 120 to 370 VDC

Output:

36W, 24 VDC, 0 to 1.5A

Overvoltage Protection:

27.6 to 32.4 Volts

Overload Protection:

105 to 160% rated output power

Protection Type:

Constant current limiting, recovers automatically

Inrush Current:

15A/115 VAC or 30A/230 VAC

Environmental:

Operating Temperature: -20° to 60° C (-4° to 140° F)

Storage Temperature: -40° to 85° C (-40° to 185° F)

Working Humidity: 10% to 95% non-condensing

Storage Humidity: 20% to 90% non-condensing

Dimensions:

78 mm W x 56 mm D x 93 mm H (3.17" W x 2.2" D x 3.66" H)

Regulatory Approvals:

Safety: UL60950-1, TUV EN60950-1 approved, design refer to EN50178

EMI conduction & radiation: EN55011, EN55022 (CISPR22) Class B

EMS immunity: EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3 heavy industry level, criteria A



Ordering Information

Part Number	Description
X52000001-01	XPress-Pro SW 52000; Industrial -10 -60°C 5-Port 10/100TX Ethernet Switch with DIN Rail
X52012011-01	XPress-Pro SW 52012F; Industrial -10 -60°C 4-Port 10/100TX, 1-Port 100BaseFX MM SC Connector Ethernet Switch with DIN Rail
X92000001-01	XPress-Pro SW 92000; hardened -34-74°C 8-Port 10/100TX Ethernet Switch with DIN Rail
X92012011-01	XPress-Pro SW 92012F; hardened -34-74°C 8-Port 10/100TX, 1-Port 100BaseFX MM SC Connector Ethernet Switch with DIN Rail
X94000001-01	XPress-Pro SW 94000; hardened manageable -34-74°C 8-Port 10/100TX Ethernet Switch with DIN Rail
X94012011-01	XPress-Pro SW 94012F; hardened manageable -34-74°C 8-Port 10/100TX, 1-Port 100BaseFX MM SC Connector Ethernet Switch with DIN Rail
X3024DR00-01	30 Watts 24VDC output, hardened DIN Rail power supply
Accessories:	
X9294DRKT-01	19" Rack Mount Kit for 94000 series
X9294PMKT-01	Wall Mount Kit for 92000, 94000 series

LANTRONIX®

15353 Barranca Parkway | Irvine | CA 92618 | USA | Tel: 800.422.7055 | Fax: 949.450.7232 | www.lantronix.com

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