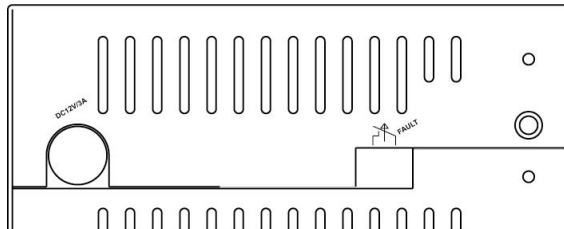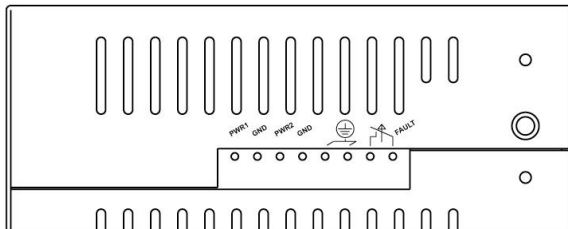# LANTRONIX®

XPress-Pro SW 94000 Quick Start

This quick installation guide describes how to install and use the hardened managed compact Ethernet Switch. Capable of operating at temperature extremes of -34°C to +74°C, this is the switch of choice for harsh environments constrained by space.

Physical Description

The Terminal Block and Power Inputs

The Terminal Block	
PWR1	Power Input 1 (+24VDC)
GND	Power Ground
PWR2	Power Input 2 (+24VDC)
GND	Power Ground
⊕	Earth Ground
FAULT	The relay opens if PWR1 or PWR2 fails (1A)

The DC Power Inputs	
12VDC DC JACK	
FAULT	The relay opens if PWR1 or PWR2 fails (1A)

DC Terminal Block Power Inputs: There are two pairs of power inputs can be used to power up this media converter. Redundant power supplies function is supported. You only need to have one power input connected to run the Switch.

The 10/100BaseTX, 10/100/1000TX, 100BaseFX, and 1000BaseSX/LX Connectors

The 10/100BaseTX Connections

The following lists the pinouts of 10/100BaseT/TX ports.

Pin	Regular Ports	Uplink port
1	Input Receive Data +	Output Transmit Data +
2	Input Receive Data -	Output Transmit Data -
3	Output Transmit Data +	Input Receive Data +
4	NC	NC
5	NC	NC
6	Output Transmit Data -	Input Receive Data -
7	NC	NC
8	NC	NC

The 10/100/1000BaseTX Connections

The following lists the pinouts of 10/100/1000BaseTX ports.

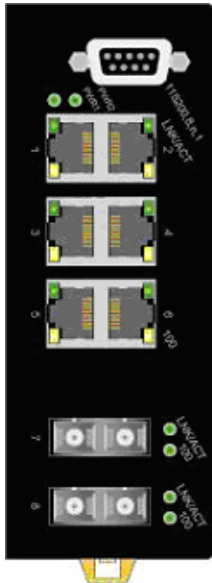| Pin	Ports
1	A+
2	A-
3	B+
4	C+
5	C-
6	B-
7	D+
8	D-

The 100BaseFX & 1000BaseSX/LX Connections

The fiber port pinouts

The Tx (transmit) port of device I is connected to the Rx (receive) port of device II,

and the Rx (receive) port of device I to the Tx (transmit) port of device II.

The Port Status LEDs

LED	State	Indication
10/100TX or 100FX		
LNK/ACT (Green)	Steady	A valid network connection established. LNK stands for LINK.
	Flashing	Transmitting or receiving data. ACT stands for ACTIVITY.
100 (Yellow)	Steady	Light solid yellow for a port transferring at 100Mbps.
	Off	The port is transferring at 10Mbps If this LED is dark.
10/100/1000TX, 1000SX/LX		
LNK (Green)	Steady	Light solid green for a port transferring at 1000Mbps.
	Off	The port is not transferring at 1000Mbps If this LED is dark.
ACT (Yellow)	Flashing	Transmitting or receiving data. ACT stands for ACTIVITY.
	Off	Neither transmitting nor receiving data.

Functional Description

◆ Meets NEMA TS1/TS2 Environmental requirements such as temperature, shock, and vibration for traffic control equipment.

◆ Meets IEC61000-6-2 EMC Generic Standard Immunity for industrial environment.

◆ Manageable via SNMP, Web-based, Telnet, and RS-232 console port.

◆ Support 802.3/802.3u/802.3ab/802.3z/802.3x. Auto-negotiation: 10/100Mbps, full/half-duplex; Auto MDI/MDIX.

◆ 100BaseFX: Multi mode SC, ST, VF-45, MT-RJ, or LC type; Single mode SC or ST type; WDM Single mode SC type.

◆ 1000BaseSX/LX: Multi mode or Single mode SC type.

◆ Support 4K MAC addresses. Provides 256K bytes memory buffer.

◆ Alarms for power failure by relay output.

◆ Operating voltage and Max. current consumption: 12VDC @ 1.48A, 24VDC @ 0.77A. Power consumption: 18.48W Max.

◆ Power Supply: Redundant DC Terminal Block power inputs or 12VDC DC JACK with 124-240VAC external power supply.

◆ Operating temperature ranges from -34℃ to 74℃.

◆ Supports Din-rail or panel mounting installation.

Assembly, Startup, and Dismantling

◆ Assembly: Place the switch on the DIN rail from above using the slot. Push the front of the switch toward the mounting surface until it audibly snaps into place.

◆ Startup: Connect the supply voltage to start up the switch via the terminal block (or DC JACK).

◆ Dismantling: Pull out the lower edge and then remove the switch from the DIN rail.