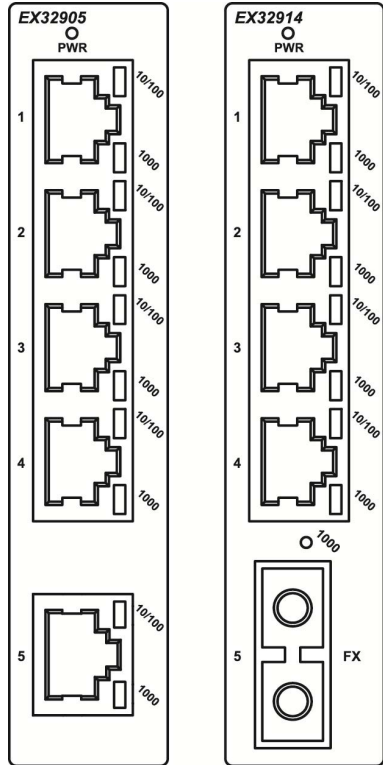This quick start guide describes how to install and use the Industrial Gigabit Ethernet Switch. Capable of operating at temperature extremes of -10°C to +60°C, this is the Switch of choice for harsh environments constrained by space.

Physical Description

The Port Status LEDs

LED	State	Indication
PWR	Steady	Device is powered up.
	Off	Device is powered off.
10/100	Steady	A valid network connection established at 10 or 100Mbps
	Flashing	Transmitting or receiving data.
1000	Steady	A valid network connection established at 1000Mbps
	Flashing	The port is transferring at 10Mbps If this LED is dark.

The Terminal Block and Power Inputs

The Terminal Block	
PWR	Power Input
GND	Power Ground
⏚	Earth Ground
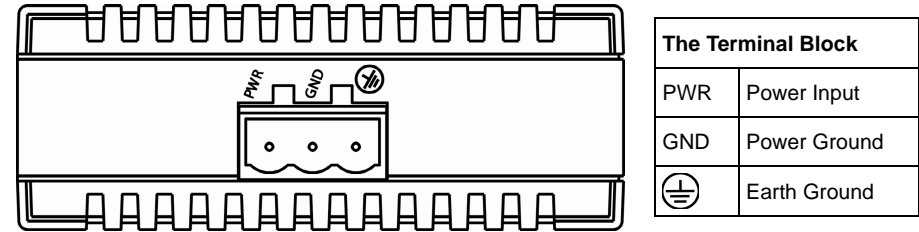
DC Terminal Block Power Input: The DC Terminal Block power input can be used to power up this Switch / Media Converter.

CAUTION: This equipment is designed to permit the connection of the earthed conductor of the DC supply circuit to the earthing conductor at the equipment.
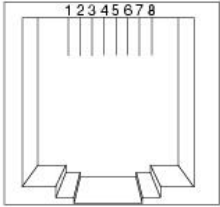If this connection is made, all of the following conditions must be met:

- This equipment shall be connected to directly to the DC supply system earthing electrode conductor or to a bonding jumper from an earthing terminal bar or bus to which the DC supply system earthing electrode conductor is connected.

- This equipment shall be located in the same immediate area (such as, adjacent cabinets) as any other equipment that has a connection between the earthed conductor of the same DC supply circuit and the earthing conductor, and also the point of earthing of the DC system. The DC system shall not be earthed elsewhere.

- The DC supply source is to be located within the same premises as the equipment.

- Switching or disconnecting devices shall not be in the earthed circuit conductor between the DC source and the point of connection of the earthing electrode conductor.

70G-EX32900Q2

The 10/100/1000Base-T and 1000Base-SX/LX/BX Connectors

The 10/100/1000Base-T Connections

The following lists the pin outs of 10/100/1000Base-T ports.

Pin	Regular Ports	Uplink port
1	TP0＋	Transmit and Receive Data 0 ＋
2	TP0－	Transmit and Receive Data 0 －
3	TP1＋	Transmit and Receive Data 1 ＋
4	TP2＋	Transmit and Receive Data 2 ＋
5	TP2－	Transmit and Receive Data 2 －
6	TP1－	Transmit and Receive Data 1 －
7	TP3＋	Transmit and Receive Data 3 ＋
8	TP3－	Transmit and Receive Data 3 －

The 1000Base-SX/LX Connections
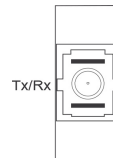
The fiber port pinouts:

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.
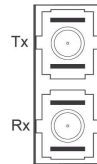
The WDM 1000Base-BX Connections

The fiber port pinouts:

Only one Single mode or Multi mode optical fiber is required to transmit and receive data.

Functional Description

- Complies with EN61000-6-2 & EN61000-6-3 EMC Generic standard immunity for industrial environment.
- Supports 802.3/802.3u/802.3ab/802.3z/802.3x. Auto-negotiation: 10/100/1000Mbps, Full/Half-duplex. Auto MDI/MDIX.
- 1000Base-SX/LX: Multi mode SC or ST type, Single mode SC or ST type. 1000Base-BX: WDM Multi mode or Single mode SC type.
- Supports 8192 MAC addresses, 1M bits buffer memory.
- Jumbo frame supported up to 10K bytes
- IEEE802.3az Energy Efficient Ethernet (EEE) supported
- Quality of Service (QoS) supported based on layer 2 priorities
- Power consumption: 6.5W Max. 0.25A @ 24VDC.
- Power Supply: DC Terminal Block power input, 12-48VDC.
- Operating temperature ranges from -10°C to 60°C.
- Plastic compact DIN-Rail industrial case design.

Assembly, Startup, and Dismantling

- Assembly: Place the device on the DIN rail from above using the slot. Push the front of the device toward the mounting surface until it audibly snaps into place.
- Startup: Connect the supply voltage to start up the device via the terminal block.
- Dismantling: Pull out the lower edge and then remove the device from the DIN-rail.

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