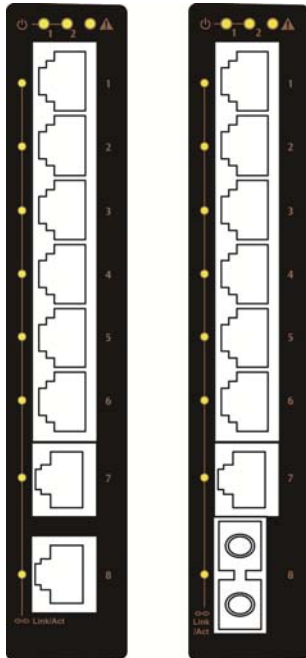This quick start guide describes how to install and use the Industrial Gigabit Ethernet Switch. Capable of operating at temperature extremes of -10°C to +60°C, this is the Switch of choice for harsh environments constrained by space.

Physical Description

The Port Status LEDs

| LED	State	Indication
⏻	Steady	Power on.
Power (Green)	Off	Power off.
⚠	Steady	Relay starts alarm.
Fault (Red)	Off	Relay non-alarm.
Gigabit Ports		
Link/Act	Steady	A valid network connection established. 10/100Mbps: Green, 1000Mbps: Amber.
	Blinking	Transmitting or receiving data. Act stands for Activity.
	Off	No link.

The Terminal Block and Power Inputs
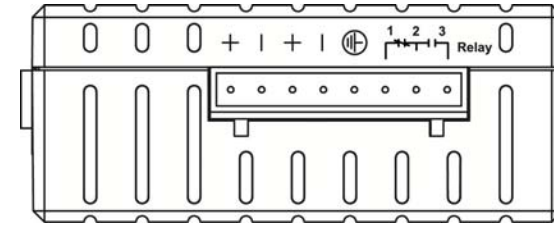
Power Input Assignment			
Power1	+	12~48VDC	Terminal Block
	−	Power Ground	
Power2	+	12~48VDC	
	−	Power Ground	
⏚		Earth Ground	
Relay Output Rating			1A @ 250VAC

DC Terminal Block Power Input: The DC Terminal Block power input can be used to power up this Switch.

DIP Switch Settings
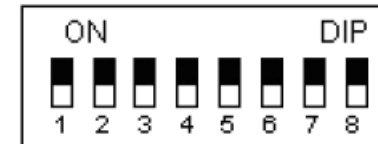
DIP No.	On	Off
1	Port 1 Alarm Enable.	Port 1 Alarm Disable.
2	Port 2 Alarm Enable.	Port 2 Alarm Disable.
3	Port 3 Alarm Enable.	Port 3 Alarm Disable.
4	Port 4 Alarm Enable.	Port 4 Alarm Disable.
5	Port 5 Alarm Enable.	Port 5 Alarm Disable.
6	Port 6 Alarm Enable.	Port 6 Alarm Disable.
7	Port 7 Alarm Enable.	Port 7 Alarm Disable.
8	Port 8 Alarm Enable.	Port 8 Alarm Disable.

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The Gigabit Ethernet Connectors

The 10/100/1000Base-TX Connections

The following lists the pinouts of 10/100/1000Base-TX ports.

Pin	Signal Name	Signal Definition
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 －

Pin	Label
1	TP0+
2	TP0-
3	TP1+
4	TP2+
5	TP2-
6	TP1-
7	TP3+
8	TP3-
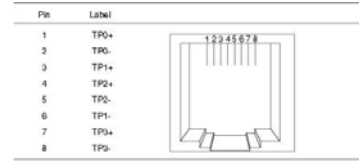
The 1000Base-SX/LX Connections
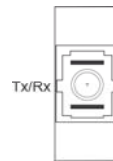
The fiber port pinouts

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.
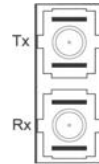
The WDM 1000Base-BX Connections

The fiber port pinouts

Only one optical fiber is required to transmit and receive data.

Functional Description

- Complies with EN61000-6-2 & EN61000-6-4 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 type. 1000Base-BX: WDM Single mode SC type.
- Supports 4096 MAC addresses, 192K Bytes buffer memory.
- Supports IEEE802.3az Energy Efficient Ethernet (EEE).
- High speed, non-blocking four traffic class QoS switch fabric.
- Supports Jumbo frame up to 9720 Bytes.
- Power Supply: Redundant 12~48VDC Terminal Block power inputs.
- Power consumption: 6.5W Max.
- Provides reverse polarity protection.
- Provides overload current protection.
- Operating temperature ranges from -10°C to 60°C (14°F to 140°F).
- Slim design with DIN-Rail mount installation.

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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