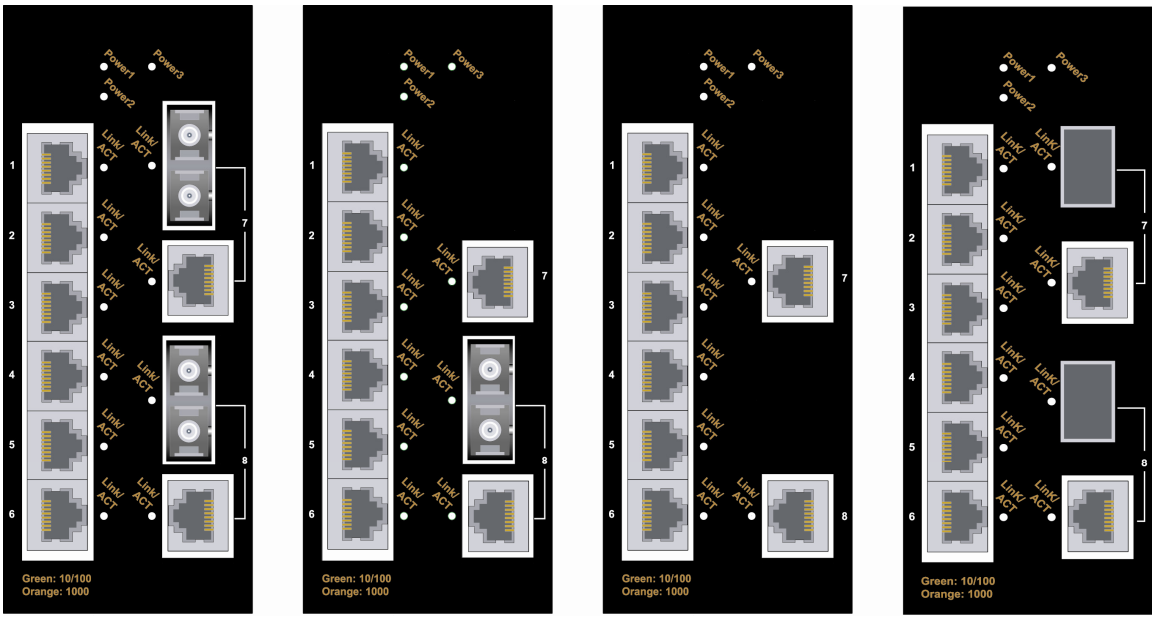
This quick start guide describes how to install and use the hardened Gigabit Ethernet Switch. Capable of operating at temperature extremes of -20°C to +60°C, this is the switch of choice for harsh environments constrained by space.

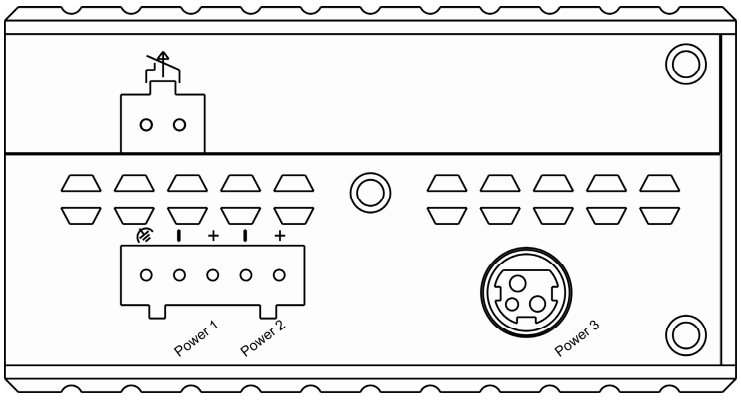
Physical Description

The Port Status LEDs



LED	State	Indication
10/100Base-TX		
Link/ACT (Green)	Steady	A valid network connection established.
	Flashing	Transmitting or receiving data. ACT stands for ACTIVITY.
1000Base-T/SX/LX/BX		
Link/ACT (Orange)	Steady	A valid network connection established.
	Flashing	Transmitting or receiving data. ACT stands for ACTIVITY.

The Terminal Block and Power inputs



Power Input Assignment			
Power3		12VDC 3A	DC Jack
Power2	+	1.5A@24VDC(9-32VDC)	Terminal Block
	−	Power Ground	
Power1	+	1.5A@24VDC(9-32VDC)	
	−	Power Ground	
⏚		Earth Ground	
Relay Output Rating			30VDC, 1A
Relay Alarm Assignment			
FAULT	*Warning signal disable for following: 1. The relay contact closes if Power1 and Power2 are both failed but Power3 on. 2. The relay contact closes if Power3 is failed but Power1 and Power2 are both on.		

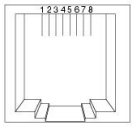
DC Terminal Block Power Inputs: There are two pairs of power inputs can be used to power up this switch. Redundant power supplies function is supported.

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

The 1000Base-T Connections

The following lists the pinouts of 1000Base-T port.

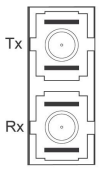
Pin	Label
1	TP0+
2	TP0-
3	TP1+
4	TP2+
5	TP2-
6	TP1-
7	TP3+
8	TP3-



The 1000Base-SX/LX Connections

The fiber port pinouts

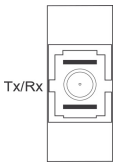
The Tx (transmit) port of device I is connected to the Rx (receive) port of device II, and the Rx (receive) port of device I to the Tx (transmit) port of device II.



The WDM 1000Base-BX Connections

The fiber port pinouts

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



The SFP Connections

The SFP socket for 1000Base fiber optic expansion.

Supports duplex LC connector on SFP with 1000Base-SX/LX/BX.

For SFP expansion

Functional Description

- Meets EN61000-6-2 & EN61000-6-3 EMC Generic Standard Immunity for industrial environment.
- Supports IEEE802.3/802.3u/802.3ab/802.3z/802.3x/802.1p. Auto-negotiation: 10/100/1000Mbps, Full/Half-duplex; Auto MDI/MDIX.
- 1000Base-SX/LX: Multi mode and Single mode SC type. 1000Base-BX: WDM Single mode SC type.
- SFP socket for Gigabit fiber optic expansion. Supports duplex LC connector on SFP with 1000Base-SX/LX/BX.
- IEEE802.1p Queue Priority: Support 4 priority queues.
- Supports 8192 MAC addresses. Provides 1.125M bits buffer memory.
- Supports jumbo frame up to 9K Bytes.
- Alarms for power failure by relay output.
- Power Supplies: Redundant 9-32VDC Terminal Block power inputs and 12VDC DC JACK with 100-240VAC external power supply.
- Field Wiring Terminal: Use Copper Conductors Only, 60/75℃, 12-24 AWG torque value 7 lb-in.
- Operating voltage and Max. current consumption: 0.6A @ 12VDC, 0.3A @ 24VDC. Power consumption: 7.2W Max.
- Operating temperature ranges from -20℃ to 60℃.
- 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.