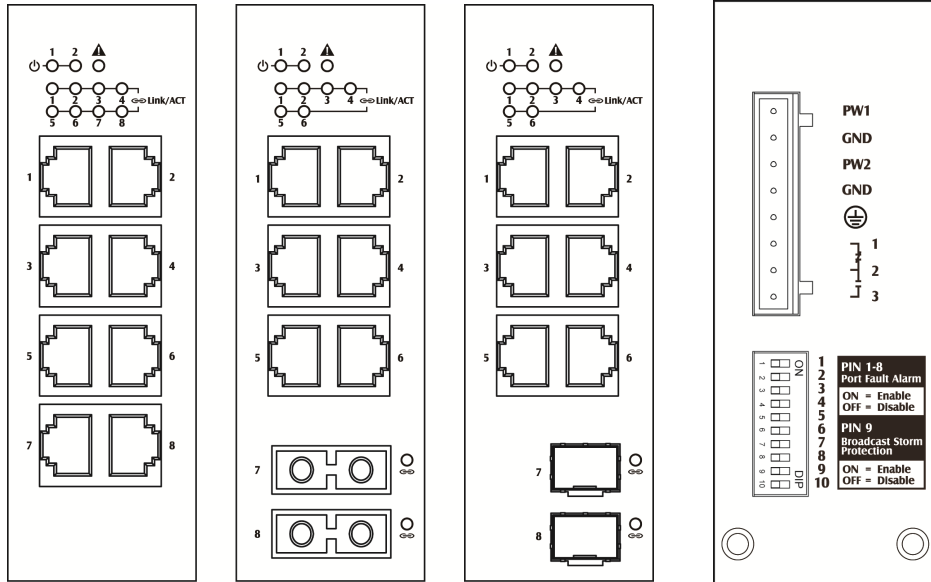


This quick start guide describes how to install and use the Hardened Ethernet Switch. This is the switch of choice for harsh environments constrained by space.

## Physical Description

### The Port Status LEDs



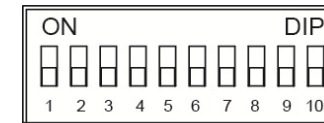
LED	State	Indication
⏻ Power 1, 2 (Green)	Steady	Power on.
	Off	Power off.
⚠️ Fault (Red)	Steady	Relay starts alarm.
	Off	Relay non-alarm.
<b>Ports</b>		
↔️ Link/ACT (Green)	Steady	A valid network connection established.
	Blinking	Transmitting or receiving data. ACT stands for Activity.
	Off	No link.

## The Terminal Block and Power Inputs

Power Input Assignment			
Power 1	+	12~48VDC	Terminal Block
	-	Power Ground	
Power 2	+	12~48VDC	
	-	Power Ground	
⏻		Earth Ground	
Relay Output Rating			1A @ 250VAC

DC Terminal Block Power Inputs: The DC Terminal Block power inputs can be used to power up this Switch.

### DIP Switch Settings



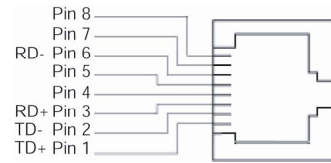
DIP No.	On	Off
1	Port 1 Alarm Enable.	Port 1 Alarm Disable.
2	Port 2 Alarm Enable.	Port 2 Alarm Disable.
3	Port 3 Alarm Enable.	Port 3 Alarm Disable.
4	Port 4 Alarm Enable.	Port 4 Alarm Disable.
5	Port 5 Alarm Enable.	Port 5 Alarm Disable.
6	Port 6 Alarm Enable.	Port 6 Alarm Disable.
7	Port 7 Alarm Enable.	Port 7 Alarm Disable.
8	Port 8 Alarm Enable.	Port 8 Alarm Disable.
9	Broadcast Storm Protection Enable.	Broadcast Storm Protection Disable.
10	Reserved	

## The 10/100Base-TX and 100Base-FX/BX Connectors

### The 10/100Base-TX Connections

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

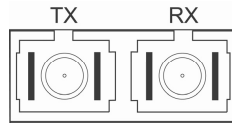
Pin	Regular Ports	Uplink port
1	Output Transmit Data +	Input Receive Data +
2	Output Transmit Data -	Input Receive Data -
3	Input Receive Data +	Output Transmit Data +
4	NC	NC
5	NC	NC
6	Input Receive Data -	Output Transmit Data -
7	NC	NC
8	NC	NC



### The 100Base-FX Connections

The fiber port pinouts

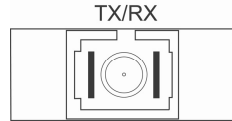
The Tx (transmit) port of device I is connected to the Rx (receive) port of device II, and the Rx (receive) port of device I to the Tx (transmit) port of device II.



### The WDM 100Base-BX Connections

The fiber port pinouts

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



### The 100Base-FX/BX SFP Socket Connections

The SFP socket for fiber optic expansion.



## Functional Description

- Meets EN61000-6-2 & EN61000-6-4 EMC Generic Standard Immunity for industrial environment.
- Supports 802.3/802.3u/802.3x. Auto-negotiation: 10/100Mbps, full/half-duplex. Auto MDI/MDIX.
- 100Base-FX: Multi mode/Single mode SC or ST type. 100Base-BX: WDM Multi mode/Single mode SC type.
- SFP socket for fiber optic expansion.
- Supports 1024 MAC addresses. Provides 448K bits memory buffer.
- Alarms for power and port link failure by relay output 1A @ 250VAC.
- Power consumption: 6W Max.
- Power Supply: Redundant 12~48VDC Terminal Block power inputs.
- -40°C to 75°C (-40°F to 167°F) operating temperature range. Tested for functional operation @ -40°C to 85°C (-40°F to 185°F).
- Supports 4KV Surge Protection.
- Supports DIN-Rail or Panel Mounting 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.

