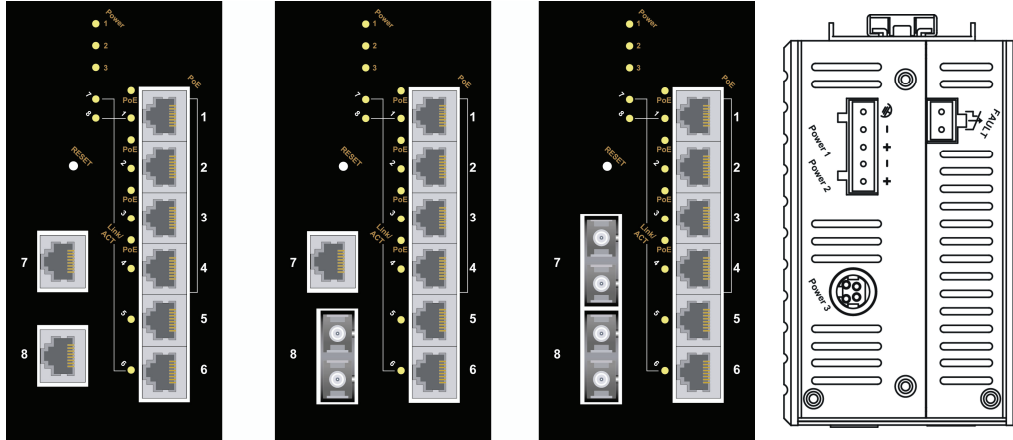


Hardened Web-Smart PoE & High Power PoE Ethernet Switch

This quick start guide describes how to install and use the Hardened Web-Smart PoE (Power over Ethernet) and High Power PoE Ethernet Switch. This is the switch of choice for harsh environments constrained by space.

Physical Description

The Port Status LEDs and Power Inputs



LED	State	Indication
Link/ACT	Steady	A valid network connection established.
	Flashing	Transmitting or receiving data. ACT stands for ACTIVITY.
PoE	Steady	Power Device (PD) is connected.
High Power PoE	Off	Power Device (PD) is disconnected.

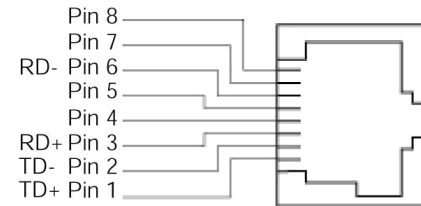
Power Input Assignment		
Power3	48, 55VDC (High Power)	DC Jack
Power2	+ 48, 55VDC (High Power)	Terminal Block
	- Power Ground	
Power1	+ 48, 55VDC (High Power)	
	- Power Ground	
	Earth Ground	
Relay Output Rating		0.1A @ 24VDC
Relay Alarm Assignment		
	*Warning signal disable for following:	
FAULT	1.The 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 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

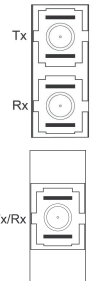
The fiber port pinouts

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 optical fiber is required to transmit and receive data.



Functional Description

- Meets NEMA TS1/TS2 Environmental requirements such as temperature, shock, and vibration for traffic control equipment.
- Meets EN61000-6-2 & EN61000-6-3 EMC Generic Standard Immunity for industrial environment.
- Manageable via Web browser interface.
- Supports IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE).
- High Power PoE design up to 30W (enhancement of IEEE802.3af PoE).
- Supports 802.3/802.3u/802.3x. Auto-negotiation: 10/100Mbps, full/half-duplex; Auto MDI/MDIX.
- 100Base-FX: Multi mode SC or ST type, Single mode SC or ST type. 100Base-BX: WDM Single mode SC type.
- Supports 1024 MAC addresses. Provides 1M bits memory buffer.
- Alarms for power and port link failure by relay output.
- PoE: Redundant 48VDC Terminal Block power inputs and 48VDC DC JACK power input for 15.4W per PoE port. Operating voltage and Max. current consumption: 1.5A @ 48VDC. Power consumption: 72W Max.
- High Power PoE: Redundant 55VDC Terminal Block power inputs and 55VDC DC JACK power input for 30W per High Power PoE port. Operating voltage and Max. current consumption: 2.3A @ 55VDC. Power consumption: 130W Max.

Hardened Web-Smart PoE & High Power PoE Ethernet Switch

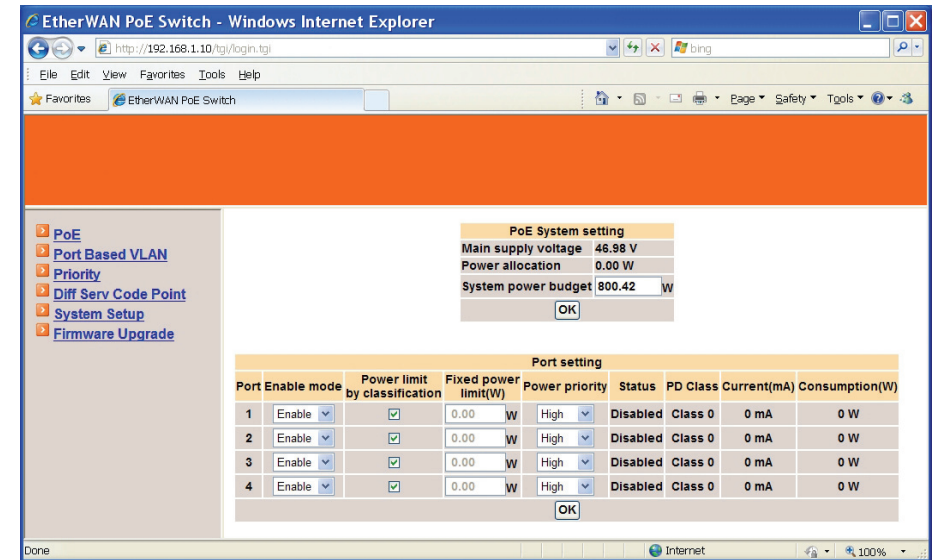
- -40°C to 75°C (-40°F to 167°F) operating temperature range. Tested for functional operation @ -40°C to 85°C (-40°F to 185°F). Web-Smart function operating temperature @ -20°C to 85°C (-4°F to 185°F).
- Supports Din-Rail, Panel, or Rack Mounting installation.

Web Configuration

- Login the switch:
Specify the default IP address (192.168.1.10) of the switch in the web browser. A login window will be shown as below:



- Enter the factory default user name: admin. Enter the factory default password (no password). Then click on the "OK" button to log on to the switch.



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.

