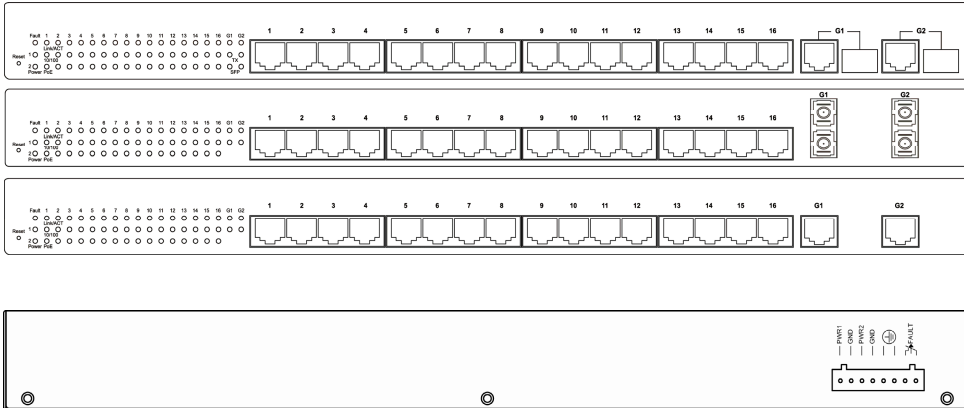


This quick start guide describes how to install and use the Hardened Web-Smart PoE (Power over Ethernet) Ethernet Switch. Port and LED number will vary on different models. This user's manual will only use EX49162 to cover all models.

## Physical Description

### The Port Status LEDs and Power Inputs



LED	State	Indication
Gigabit Ethernet		
Link/ACT	Steady	A valid network connection established.
	Flashing	Transmitting or receiving data. ACT stands for ACTIVITY.
TX	Steady	A valid TX connection established.
	Off	No valid TX connection established.
SFP	Steady	A valid SFP connection established.
	Off	No valid SFP connection established.

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.

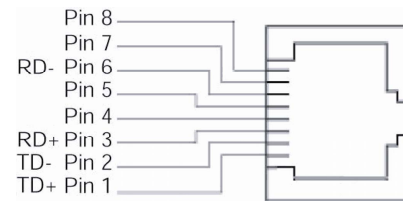
Power Input Assignment			
Power2	+	47-57VDC	Terminal Block
	-	Power Ground	
Power1	+	47-57VDC	
	-	Power Ground	
	Earth Ground		
Relay Output Rating		1A @ 24VDC	

LED	State	Indication
Power1 Power2	Steady	Power on.
	Off	Power off.
Fault	Steady	Power redundant system failure occurred.
	Off	Power redundant system failure is not occurred.
10/100Base-TX		
Link/ACT	Steady	A valid network connection established.
	Flashing	Transmitting or receiving data. ACT stands for ACTIVITY.
10/100	Steady	Valid port connection at 100Mbps.
	Off	Valid port connection at 10Mbps.
PoE	Steady	Powered device (PD) is connected.
	Off	Powered device (PD) is disconnected.

## The 10/100Base-TX (PoE) and Gigabit Ethernet Connectors

### The 10/100Base-TX (PoE) Connections

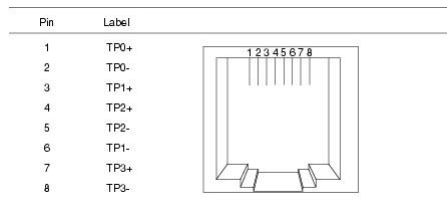
The following lists the pinouts of 10/100Base-TX ports.



Pin	Signal Name	Signal Definition
1	TD+	Output Transmit Data +
2	TD-	Output Transmit Data -
3	RD+	Input Receive Data +
4	PoE	Positive (VCC+)
5	PoE	Positive (VCC+)
6	RD-	Input Receive Data -
7	PoE	Negative (VCC-)
8	PoE	Negative (VCC-)

**The 1000Base-T Connections**

The following lists the pinouts of 1000Base-T 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 -

**The SFP Socket Connections**

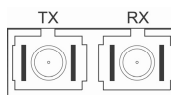
The SFP socket for Gigabit fiber optic expansion.



**The 1000Base-SX/LX Connections**

The fiber port pinouts

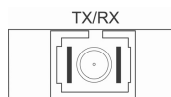
The Tx (transmit) port of device I is connected to the Rx (receive) port of device II, and the Rx (receive) port of device I to the Tx (transmit) port of device II.



**The WDM 1000Base-BX Connections**

The fiber port pinouts

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

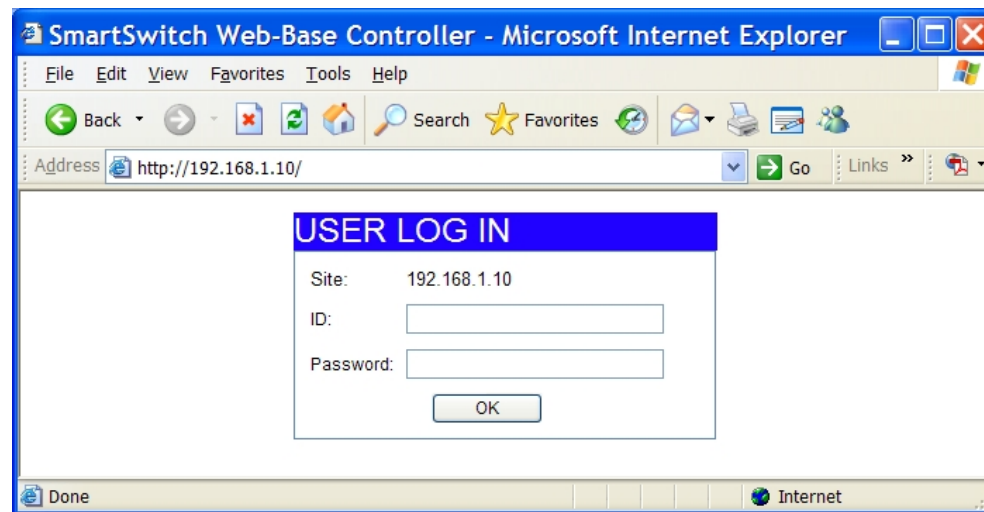


**Functional Description**

- Meets NEMA TS2 Environmental requirements such as temperature, shock, and vibration for traffic control equipment.
- Meets EN61000-6-2 & EN61000-6-4 EMC Generic Standard Immunity for industrial environment.
- Manageable via Web browser interface.
- Supports IEEE802.3at Power over Ethernet (PoE) Power Sourcing Equipment (PSE).
- Up to Max. 16 IEEE802.3at compliant PoE PSE (30W) ports.
- 2 Gigabit SFP combo ports.
- 1000Mbps-Full-duplex, 10/100Mbps-Full/Half-duplex. Auto-Negotiation, Auto-MDI/MDIX.
- Supports 4096 MAC addresses. Provides 2.25M bits memory buffer.
- Alarms for power and port link failure by relay output.
- Power Supply: Redundant 55VDC Terminal Block power inputs.
- Device power consumption: 15W Max. (without PoE). PoE power budget: 480W Max.
- -40°C to 75°C (-40°F to 167°F) operating temperature range.
- Supports 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: admin. Then click on the “OK” button to log on to the switch.

