

## 1 Unpacking

Unpack the items. Your package should include:

- One EX78000 Series hardened managed switch
- Rack-mounting hardware brackets
- One CD containing this user's guide

If items are missing or damaged, notify your EtherWAN representative. Keep the carton and packing material.

## 2 What Else You Need

- Appropriate cables for data ports
- Personal computer or laptop

## 3 Select a Location

- Desktop installations: Mount on a flat table or shelf surface.
- Rack installations: Use a 19-inch (48.3-centimeter) EIA standard equipment rack that is grounded and physically secure.
- Identify a power source within 6 feet (1.8 meters).
- Choose a dry area with ambient temperature between -40 and 75°C (-40 and 167°F).
- Keep away from heat sources, sunlight, warm air exhausts, hot-air vents, and heaters.
- Be sure there is adequate airflow.
- Keep the switch at least 6 ft. (1.83 m) away from the nearest source of electromagnetic noise, such as a photocopy machine.

## 4 Connect to the Data Ports

Depending on the model, your switch can have the following ports:

- 4 or 8 10/100Base-TX Power over Ethernet (PoE) ports
- 0, 2, or 4 100Base-FX ports
- 0, 1, or 2 Gigabit ports

### 10/100Base-TX and 100Base-FX Ports

These ports connect to devices such as an IP surveillance camera or a Voice Over Internet Protocol (VoIP) phone.

The 10/100Base-TX ports support PoE and conform to IEEE802.3af or IEEE802.3at. They provide up to 30W per port, with a total power budget of 180W.

- A. Insert one end of an appropriate cable into a switch port. Connect the other end into the Ethernet port of the device.
- B. Repeat step A for each additional device you want to connect to the switch.

### Gigabit Ports

Some switch models have 1 or 2 10/100/1000Base-TX ports, 1000Base-SX/LX/BX ports, or 1000Base SFP (DDM) ports.

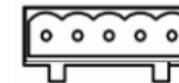
These ports connect them to network devices such as a computer, printer, network video recorder (NVR), network storage, or they can connect to the network itself.

## 5 Apply Power

The switch has two pairs of power inputs: a 47-55VDC terminal block and a 48VDC jack. Only one power input is required to operate the switch. However, redundant power supply functionality is supported.

### Terminal Block

The switch provides two power inputs on a 47-55VDC terminal block. Only one power input is required to operate the switch. The terminal block has 5 terminal posts.



Pin		Description
Power 2	+	47-55VDC
	-	Power Ground
Power 1	+	47-55VDC
	-	Power Ground
		Earth Ground
Relay Output Rating		1A @ 24VDC

### DC Jack



Pin	Description
Power 3	48VDC

## Power Failure Alarm

A 2-pin terminal block is provided for power failure detection. Do not connect a power source to these pins. The relay contact closes if Power 1 and Power 2 are both failed, but Power 3 is ON; or if Power 3 is failed, but Power 1 and Power 2 are both ON.

## Power-Up Sequence

When you apply power, all **Link/ACT** LEDs blink momentarily, the **Power 1** LED goes ON, and LEDs for every port connected to a device flash.

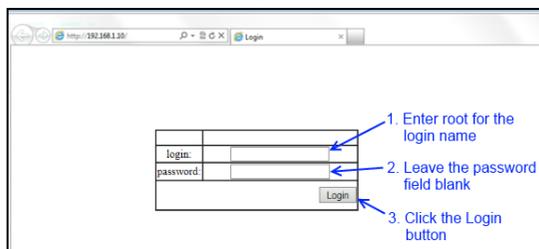
## 6 Front Panel LEDs

LED	Color	Status
<b>10/100Base-TX LEDs</b>		
<b>Link/Act</b>	Green	ON = valid network connection is established. Flashing = port sending or receiving data.
<b>PoE</b>	Amber	ON = Power Device (PD) is connected. OFF = PD is not connected.
<b>100Base-FX/BX LEDs</b>		
<b>Link/Act</b>	Green	ON = valid network connection is established. Flashing = port sending or receiving data.
<b>10/100/1000Base-TX LEDs</b>		
<b>Link/Act</b>	Green	ON = valid network connection is established. Flashing = port sending or receiving data.
<b>1000Base-SX/LX/BX LEDs</b>		
<b>Link/Act</b>	Orange	ON = valid network connection is established. Flashing = port sending or receiving data.

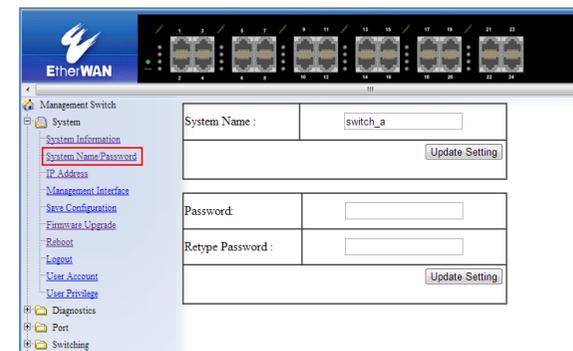
## 7 Managing the Switch

The following procedures are optional, but recommended for a basic configuration.

- Connect a PC to an available switch port using an appropriate cable.
- Confirm that the **Link/ACT** LED for the switch port to which the PC is connected is ON. If not, choose a different port.
- Configure the PC's TCP/IP settings to use the subnet 192.168.1.x and subnet mask 255.255.255.0, where x is a number from 2 to 254 other than 10.
- In a Web browser address bar, type <http://192.168.1.10> and press Enter.
- Log in to the management interface:



- Change the system name:
  - In the left pane, click **+** next to **System**, then click **System Name/Password**.
  - On the right side, click in the **System Name** text box.
  - Replace the name shown with a name you want to assign to the switch.
  - Click the **Update Setting** button below the **System Name** text box.



- By default there is no password assigned to the switch. To add a password:
  - In the page above, click in the **Password** text box, enter a password, and retype it in the **Retype Password** text box.
  - Click **Update Setting** below the **Retype Password** text box.
- Change the switch's IP address and subnet mask to match the scheme on your network:

