

## 1 Unpacking

Unpack the items. Your package should include:

- One EX89000 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 photocopier machine.

## 4 Connect to the Data Ports

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

- 0, 8, 16, or 24 10/100Base-TX ports
- 0-to-18 100Base-FX ports
- 0, 2, or 4 Gigabit ports

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

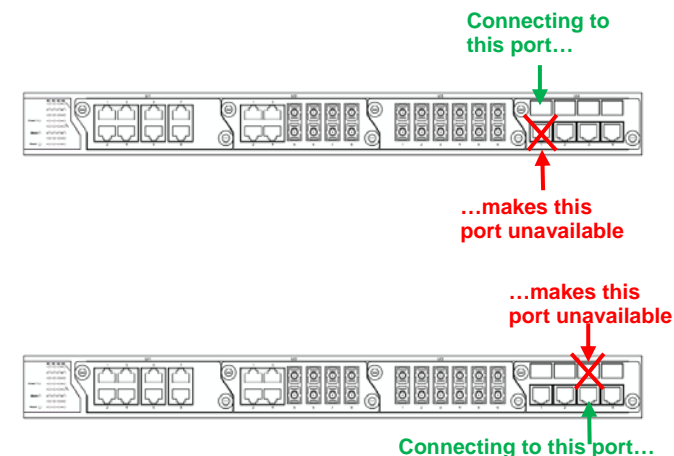
These ports can connect to devices such as an IP surveillance camera or a Voice Over Internet Protocol (VoIP) phone.

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

### Gigabit Ports

Some switch models have 2 or 4 10/100/1000Base-TX ports, 1000Base-SX/LX/BX ports, or 4-port 1000Base SFP-combo with 10/100/1000Base-TX ports. You can connect these ports to network devices such as a computer, printer, network video recorder (NVR), network storage, or they can connect to the network itself.

SFP-combo ports operate in "either/or" fashion. This means that attaching to a 1 Gbps combo port renders the equivalent partner combo port unavailable. See the following examples.



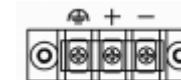
## 5 Apply Power


All switches have a 100-240 VAC receptacle:




Connect the female end of the supplied AC power cable to the power receptacle on the back of the switch. Connect the 3-pronged end of the cable to a grounded 3-pronged AC outlet.

Some models have one of these terminal blocks:



	+48VDC	-48VDC
-	0	-48
+	+48	0
	Earth Ground	

	88-370VDC	90-264VAC
-	0	N
+	88 - 370	L
	Earth Ground	

The switch also has a relay with these settings:

Setting	Relay Settings
Relay normal	b — c CLOSE, c — a OPEN
Relay alarm	b — c OPEN, c — a CLOSE



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.

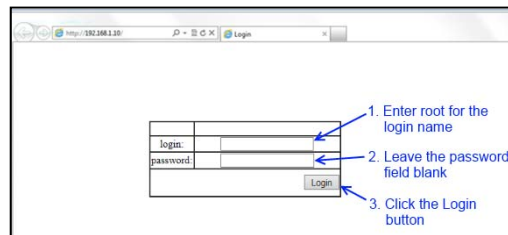
## 6 Front Panel LEDs

LED	Color	Status
Power 1	Green	ON = power on. OFF = power off.
Alarm	Red	ON = power failure occurred. OFF = normal operation (no power failure).
10/100Base-TX, 100Base-FX/BX LEDs		
Link/Act	Green	ON = valid network connection is established. Flashing = port sending or receiving data.
10/100/1000Base-TX/SFP LEDs		
Link/Act	Green	ON = valid network connection is established. Flashing = port sending or receiving data.

LED	Color	Status
SFP	Green	ON = valid SFP connection is established.
1000Base-SX/LX/BX LEDs		
Link/Act	Orange	ON = valid network connection is established. Flashing = port sending or receiving data.
SFP	Green	ON = valid SFP connection is established.

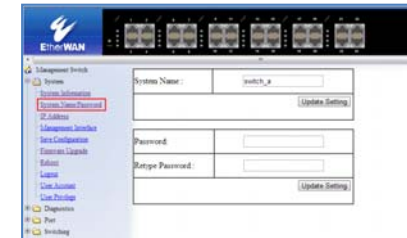
## 7 Managing the Switch

- 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:

