

1 Unpacking

Open the carton and unpack the items. Your package should include:

- One EX78000 switch

If any items are missing or damaged, notify your EtherWAN representative. If possible, save the carton and packing material in case you need to ship or store the switch in the future.

2 Equipment Needed

- Category 5 or better cable for RJ-45 ports
- Appropriate fiber cables for fiber ports
- Appropriate SFP modules for SFP ports
- Personal computer with a DB-9 straight cable

3 Select a Location

- Installations: Desktop, Wall-mount, DIN-Rail mount.
- 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).
- Be sure there is adequate airflow.

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
- 2 Gigabit ports

10/100BASE-TX (PoE) and 10/100/1000BASE-TX Ports

Port 1 to 8 support PoE+ Power over Ethernet, and can provide power to networked devices such as IP Phones, Wireless LAN Access Points, and IP security cameras with a power budget of 240 watts.

2 100/1000BASE SFP Slots

SFP transceivers can be installed directly into SFP slots. Ensure that the same type of transceiver is used at both ends of the link and that the correct type of fiber cable is used.

100BASE-FX Fiber Ports

Some models are equipped with fiber optic ports accepting SC & ST connectors instead of SFP slots. Select an appropriate cable type according to your distance and transmission rate needs.

5 Apply Power

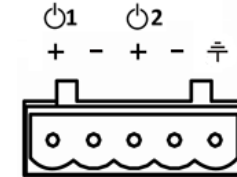
The switch has a 52-57VDC terminal block for power input. Only one power input is required to operate the switch. However, redundant power supply functionality is supported.


- IEEE802.3at: up to 30W/port, 52-57VDC
- 60 Watts/port, 52-57VDC
- 52VDC: 4.85A
- 57VDC: 4.45A
- Device power consumption: 10.4 Watts Max. (Without PoE)
- PoE power budget: 240 Watts

Note: Only use qualified power supply, either SELV or double insulated per UL 60950 or UL 61010-1 or UL 61010-2-201 standards.

Terminal Block

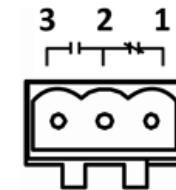
The switch provides two power inputs on a 52-57VDC terminal block. Only one power input is required to operate the switch. The terminal block has 5 terminal posts.



Pin	State	Description
Power 1	+	52-57VDC
	-	Power Ground
Power 2	+	52-57VDC
	-	Power Ground
		Earth Terminal
Relay Output Rating		0.5A @ 48VDC

Relay Output Alarm

The relay output can be connected to an alarm signaling device. Current is 0.5A at 48VDC.

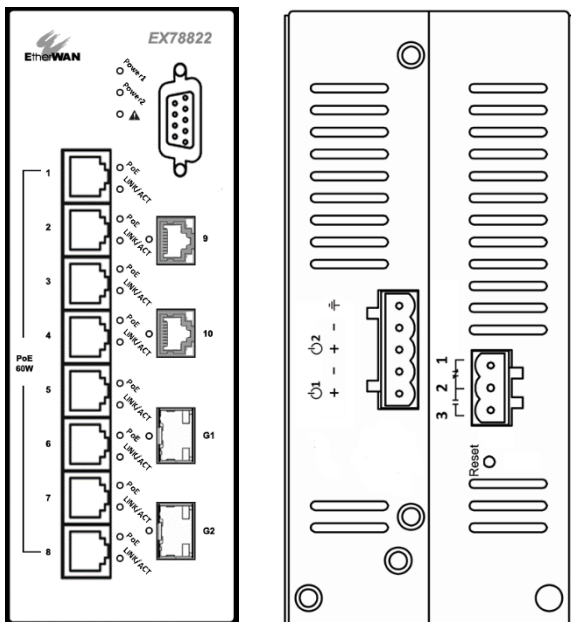


3 Normal Open | 2 Ground | 1 Normal close

Power-Up Sequence

When the switch is powered up:

- All **Link/ACT** LEDs blink momentarily.
- The **Power 1** LED goes ON.
- LEDs for every port connected to a device will flash, as the switch conducts a brief Power On Self-Test (POST).



6 Console Configuration

- Connect to the switch console by connecting the DB9 cable to the console port of the switch and to the serial port of the computer running a terminal emulation application (such as HyperTerminal or Putty).

- Configuration settings of the terminal-emulation program: Baud rate: 115,200bps, Data bits: 8, Parity: none, Stop bit: 1, Flow control: none.
- The default login name is "**root**," no password.

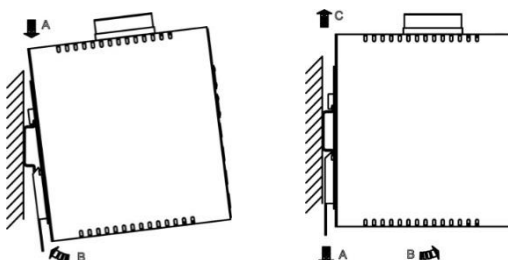
7 Web Configuration

- Log in to the switch by launching a web browser and enter ring **192.168.1.10** in the address bar.
- Enter the default login ID: **root** (no password) and click "**Login**." You will be prompted to change the default password.

8 Other Information

DIN-Rail 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.
- **Dismantling:** Pull out the lower edge and then remove the Switch from the DIN rail.



Power wiring information:

Use cable type - AWG (American Wire Gauge) 18-24 and the corresponding pin type cable terminals. Tighten terminal screws with a torque value of 1.7 lb-in. Do not use excessive force when fixing wiring.



The rating of the power wire used must be at least 105°C.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

The Ethernet switch should be mounted in an industrial control panel with ambient temperature not exceeding 75 degrees C.

Manufacturer information:

EtherWAN Systems, Inc.

33F, No. 93, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City, 221 Taiwan

The full product manual can be downloaded from:

www.etherwan.com

