

## 1 Unpacking

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

- One EX73900 switch
- AC Power cord
- Four adhesive rubber feet
- Installation guide
- Mounting kit
- RJ45 to DB9 console cable

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 SFP modules for SFP ports
- Personal computer with a DB9 straight cable (if switch is to be managed through console port)

## 3 Select a Location

- Installations: DIN-Rail mount, wall (in an enclosure or industrial panel)
- 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:

- 12 10/100/1000BASE-TX ports
- Gigabit SFP slots

### 10/100/1000BASE-TX Ports

Ports 1 to 12 are gigabit copper ports and can be connected to routers, other switches, or end devices. Use category 5e or higher UTP/STP cable.

### 1 Gbps SFP Ports

Your switch model has four 1 Gbps SFP slots. SFP transceivers can be installed directly into ports 13 – 16. 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.

## 5 Apply Power

The switch has two pairs of power inputs:

A 12-48 VDC terminal block

The power dissipation under full load is as follows:

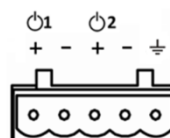
12V/1.44A 24V/0.67A 48V/0.33A

Redundant power supply is supported. However, only one power input is required to operate the switch.

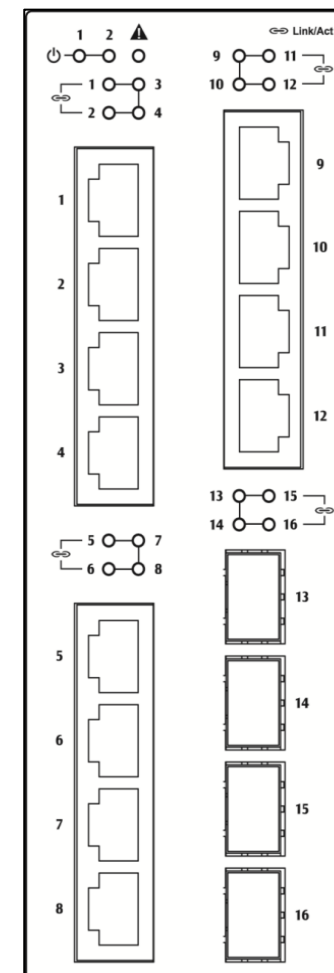
**Note:** Use qualified power supply by SELV or double insulation of UL60950 or UL61010-1 or UL61010-2-201 standards.


### Terminal Block

The switch provides two power inputs on a 12-48VDC terminal block. Only one power input is required to operate the switch. The terminal block has 5 terminal posts.



## 6 LED Indicators



Pin	State	Description
Power 1	+	12-48VDC
	-	Power Ground
Power 2	+	12-48VDC
	-	Power Ground
		Earth Terminal
Relay Output Rating		0.6A @ 30VDC

### Relay Output Alarm

The relay output can be connected to an alarm signaling device. Current is 0.6A at 30VDC.



### Power-Up Sequence

When the switch is powered up:

- All **Link/ACT** LEDs blink momentarily.
- The **Power 1, 2** LEDs light up and stay lit.
- LEDs for every port connected to a device will flash, as the switch conducts a brief Power On Self-Test (POST).

## 7 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.

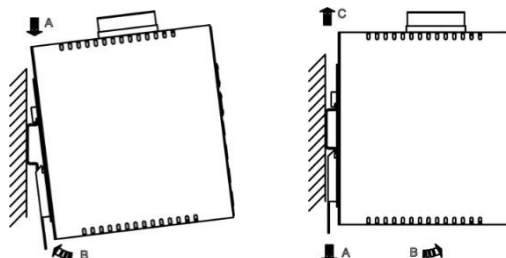
## 8 Web Configuration

- 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.

## 9 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 corresponding pin type cable terminals.

Use torque value 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.

- Label clean up: Indoor use and pollution degree II, it must be wiped with a dry cloth to clean up the labelling.
- 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 shall be mounted in an industrial control panel and ambient temperature should not exceed 75°C.
- Altitude up to 2000 m
- Indoor use only
- Humidity range (Operational): 5% to 95%, non-condensation

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](http://www.etherwan.com)

