

## Installation Guide

### 1 Unpacking

Unpack the items. Your package should include:

- One EX73900 Series hardened managed switch
- One console cable

If items are missing or damaged, notify your EtherWAN representative. If possible, save the carton and packing material. The full product manual can be downloaded from:

<https://www.etherwan.com/support/product/ex73900-series>

### 2 What Else You Need

- Category 5 or better cable for RJ-45 ports
- Appropriate SFP cable 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:

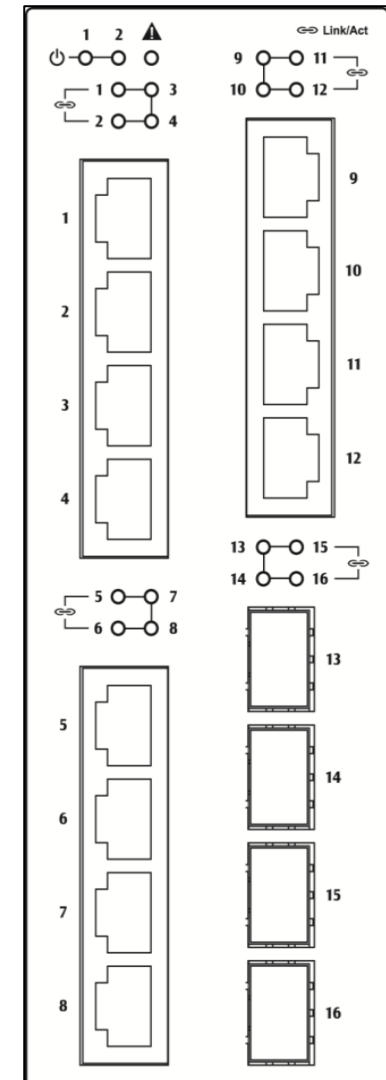
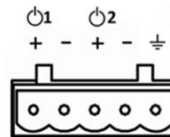
12V/1.44A 24V/0.67A 48V/0.33A


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.



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

- 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.

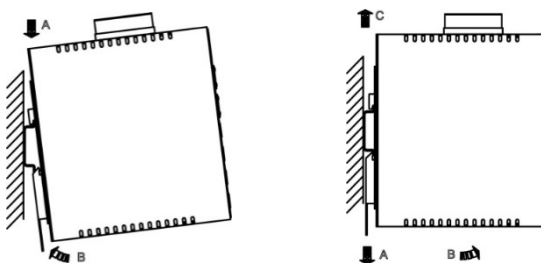
### 7 Web Configuration

- Log in to the switch by launching a web browser and entering 192.168.1.10 in the address bar.
- Enter the default login ID: root (no password) and click "Login." The system information screen will display.

### 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 corresponding pin type cable terminals.

Using 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 for 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 the Industrial Control Panel and ambient temperature should not exceed 75 °C.

Manufacturer information:

**ETHERWAN SYSTEMS, INC.**

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- Altitude up to 2000 m
- Indoor use only
- Humidity range (Operational): 5% to 95%, non-condensation

### Relay Output Alarm

The relay output can be connected to an alarm signaling device. Current is 2A 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).

### 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).