

Installation Guide

1 Unpacking

Unpack the items. Your package should include:

One EX83304 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>



2 What Else You Need

- Shielded twisted pair cables and corresponding shielded RJ45 connectors
- 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 or 8 10/100BASE-TX ports
- 2 or 4 Gigabit SFP slots

10/100BASE-TX Ports

These ports come in 10/100Base-TX interfaces. They can connect to devices such as an IP surveillance camera or a Voice Over Internet Protocol (VoIP) phone.

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:

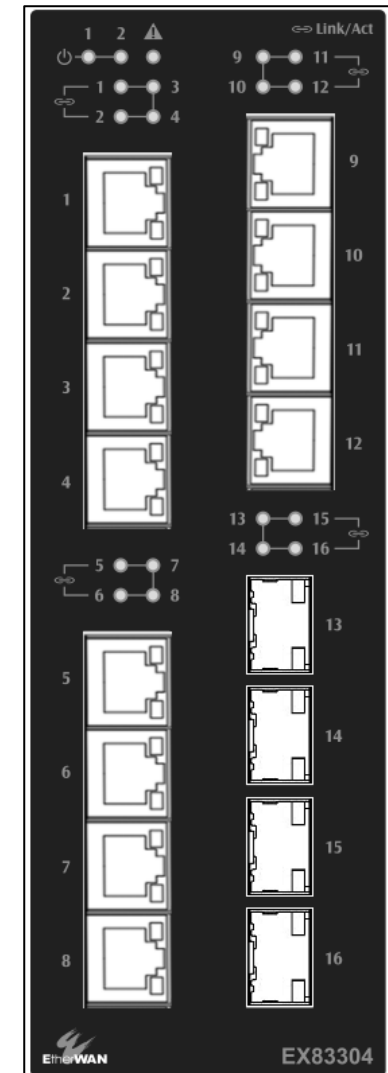
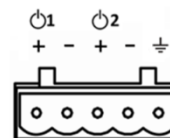
12V/1.44A 24V/0.67A 48V/0.33A


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.

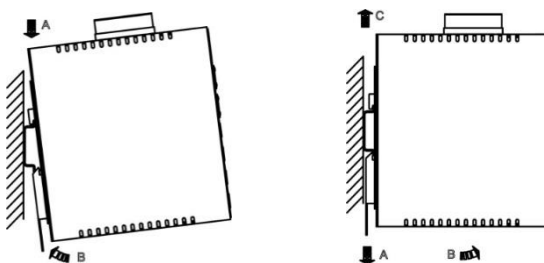
7 Web Configuration

- 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.



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).

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:

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