

1 Unpacking

Unpack the items. Your package should include:

- One ED3575 Series hardened managed Ethernet Extender
- 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

- Category 5 or better cable for RJ-45 ports
- Appropriate cables for fiber and SFP ports
- Telephone wire (24AWG with minimum 0.5mm diameter) for Ethernet Extender ports (RJ-11 connector or Terminal Block)
- Personal computer with a DB9 straight cable

3 Select a Location

- Installations: Desktop, Wall-mount, DIN-Rail mount.
- Installation must be at a height of at least 6 feet (1.8 meters) above the floor.
- 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 Ethernet Extender at least 6 ft. (1.83 m) away from the nearest source of electromagnetic noise, such as a photocopy machine.

4 Connect to the Data Ports

Depending on the model, your Ethernet Extender can have the following ports:

- 6 10/100BASE-TX ports
- 2 Gigabit combo ports
- 2 Ethernet Extender ports (RJ-11 connector or Terminal Block)

10/100BASE-TX Ports

These ports can connect to devices such as an IP surveillance camera.

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

1 Gbps Combo/SFP Ports

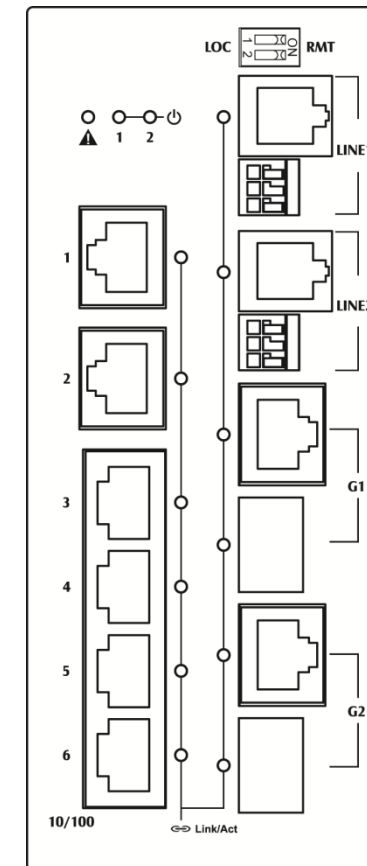
If your switch model has combo ports, you can connect them to network devices such as a computer, printer, network video recorder (NVR), network storage, or they can connect to the network itself.

Combo ports operate in “either/or” fashion. This means that attaching to a 1 Gbps combo port

renders the equivalent partner combo port unavailable.

Ethernet Extender Ports

Insert the voice grade copper wire between one pair of Ethernet Extenders via Ethernet Extender port (RJ-11 connector or Terminal Block). One device must be set to LOC mode and the other to RMT mode when two devices are connected.



5 Apply Power

The switch has two pairs of power inputs:


- A 12-48VDC terminal block

Only one power input is required to operate the switch. However, redundant power supply functionality is supported.

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 8 terminal posts.



Pin	Description	
Power 1	+	12-48VDC
	-	Power Ground
Power 2	+	12-48VDC
	-	Power Ground
	Earth Ground	
Relay Output Rating	1A @ 24VDC	

Power Failure Alarm

A 2-pin terminal block is provided for power failure detection. Do not connect a power source to these pins.



Power-Up Sequence

When you apply power:

- All **Link/ACT** LEDs blink momentarily.
- The **Power 1, 2** LED goes ON.
- LEDs for every port connected to a device flash, as the switch conducts a brief Power On Self-Test (POST).

6 Front Panel LEDs

LED	Color	Status
10/100Base-TX LEDs		
Link/Act	Green	ON = valid network connection is established. Flashing = port sending or receiving data.
10/100/1000Base-TX LEDs		
Link/Act	Green	ON = valid network connection is established. Flashing = port sending or receiving data.
1000Base SFP LEDs		
Link/Act	Green	ON = valid network connection is established. Flashing = port sending or receiving data.

LED	Color	Status
Ethernet Extender Port LEDs		
Link/Act	Green	ON = valid network connection is established. Flashing = port sending or receiving data.

7 DIP Switch

Pin	ON	OFF
DIP Switch 1	RMT mode	LOC mode
DIP Switch 2	RMT mode	LOC mode

Note: Reboot the device to let DIP switch changes take effect.

Ethernet Extender Connection

The RJ-11 and Terminal Block port pinouts

Pin 3: Tip, Pin 4: Ring.

Use a telephone line to connect two RJ-11 or Terminal Block ports between two Hardened Ethernet Extenders.

