EtherWAN

1 Unpacking

Unpack the items. Your package should include:

➢ One ED3575 Series hardened managed Ethernet Extender

If items are missing or damaged, notify your EtherWAN representative. Keep the carton and packing material. The full product manual can be downloaded from:
https://www.etherwan.com

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: 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 75ºC (-40 and 167ºF).

➢ 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.

➢ The device can operate at altitudes up to 2000 meters.

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.

A. Insert one end of an appropriate cable into a switch port.

B. Connect the other end into the Ethernet port of the device.

C. 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.
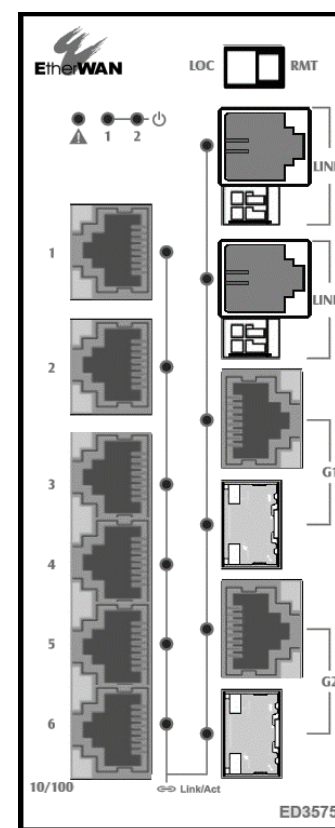
5 Apply Power

The switch has two pairs of power inputs:

➢ A 12-48VDC (1.4-0.4A) terminal block

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

Terminal Block

There are two power inputs on a 12-48VDC (1.4-0.4A) terminal block. Only one power input is required to operate the Ethernet extender. The terminal block has 8 terminal posts.

Pin		Description
Power 1	+	12-48VDC (1.4-0.4A)
	−	Power Ground
Power 2	+	12-48VDC (1.4-0.4A)
	−	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.
Ethernet Extender Port LEDs		
Link/Act	Green	ON = valid network connection is established. Flashing = port sending or receiving data.

7 DIP Switch

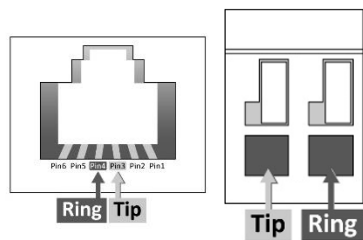| Pin	ON	OFF
DIP Switch 1	RMT mode	LOC mode
DIP Switch 2	RMT mode	LOC mode

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.

8 Managing the Device

Connect a PC to an available switch port using an appropriate cable, or use a serial cable to connect to the console port. The IP address of VLAN1 is 192.168.1.10.

The device can also be configured through the Graphical User Interface. In a web browser, navigate to http://192.168.1.10 and log in.

The default login is "root," and the default password is blank.

Power wiring information:

Use cable type - AWG (American Wire Gauge) 12-24 and the corresponding pin type cable terminals. Tighten terminal screws with a torque value of 7 lb-in. Do not use excessive force when fixing wiring.

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

USE COPPER CONDUCTORS ONLY.

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

WARNING – Explosion hazard. Do not disconnect the terminal block while the circuit is live or unless the area is known to be free of ignitable concentrations.

For repair or maintenance needs, contact EtherWAN directly.

9 Other Information

DIN-Rail Assembly Startup, and Dismantling

➢ Assembly: Place the media converter on the DIN rail from above using the slot. Push the front of the device toward the mounting surface until it audibly snaps into place.

➢ Startup: Connect the supply voltage via the terminal block to start the switch

➢ Dismantling: Pull out the lower edge
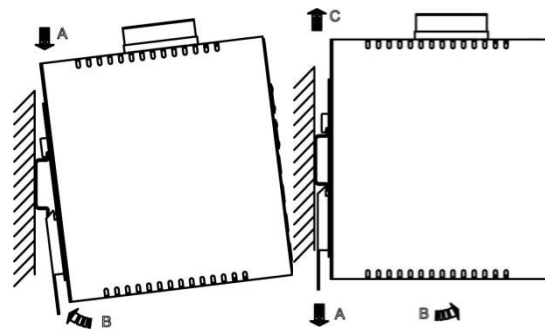
10 Repair and Replacement

Repair and replacement service can be registered at

https://www.etherwan.com/support/rma-request-form

Complete all of the fields on the online form and click submit.

- Before sending in a product for RMA service, please double-check the following items:
- See if the problem has been addressed in EtherWAN's FAQ database
- Ensure that the device has power and that the power LED indicator is lit
- Make sure that the product is connected to the network, and that there is not a problem with the data cable
- Check that the firmware version is the most recent
- Try restoring the device to its factory default settings

Informations de câblage d'alimentation:

Utilisez le type de câble - AWG (American Wire Gauge) 12-24. valeur de couple de 7 lb-in.

Le calibre du fil d'alimentation utilisé doit être d'au moins 105°C.

DESTINÉ À ÊTRE UTILISÉ AVEC DES CONDUCTEURS EN CUIVRE SEULEMENT.

Si la méthode d'utilisation de l'équipement diffère de celle décrite par le fabricant, la protection assurée par l'équipement risque d'être altérée.

Contactez-nous pour l'entretien ou la reparation.

AVERTISSEMENT - RISQUE D'EXPLOSION. NE PAS DÉBRANCHER PENDANT QUE LE CIRCUIT EST SOUS TENSION OU À MOINS QUE L'EMPLACEMENT NE SOIT EXEMPT DE CONCENTRATIONS INFLAMMABLES.

繁體中文:

線材資訊和注意事項

1. 線材規格需選用 12-24 AWG 和選用相對應接頭，接線端螺絲鎖緊軸扭力值為 7 lb-in，請勿過度用力鎖緊。
2. 線材規格至少要 105℃。
3. 線材需為銅導體。
4 若設備未依照製造商指定的方式使用，則設備提供的保護可能會受到損害。

简体中文

线材资讯和注意事项

1. 线材规格需选用 12-24 AWG 和选用相对应接头，接线端螺丝锁紧轴扭力值为 7 lb-in，请勿过度用力锁紧。
2. 线材规格至少要 105℃。
3. 线材需为铜导体。
4. 若设备未按制造商指定的方式使用，则设备提供的保护可能会受到损害。

日語

注意事項：

1. 推奨する電線の仕様は 12-24 AWG と対応するコネクター、ネジの適正な締付けトルクは 7 lb-in です。
2. 電線の推奨仕様は 105℃ 以上です。
3. 電線は銅以外の導体を禁止します。
4. メーカー推奨以外の方法で設備を使用する場合、損壊を与える可能性があります。

 Note: The switch can be extremely hot after running under full load for a while. Please use protective gloves when dismantling or adjusting the switch.

Remarque: Le commutateur peut être extrêmement chaud après avoir fonctionné à pleine charge pendant un certain temps. Veuillez utiliser des gants de protection lors du démontage ou du réglage de l'interrupteur.

Manufacturer information:

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