

1 Unpacking

Unpack the items. Your package should include:

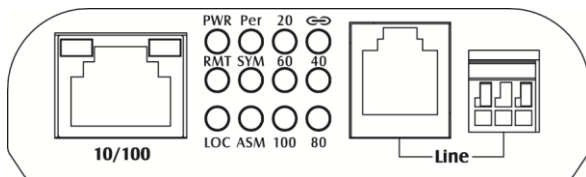
- One ED3501 Industrial Ethernet Extender
- One CD containing this user's guide


If items are missing or damaged, notify your EtherWAN representative. Keep the carton and packing material.

2 Select a Location

- Installations: Desktop, Wall-mount, DIN-Rail mount.
- Identify a power source within 6 feet (1.8 meters).
- Choose a dry area with ambient temperature between -10 and 60°C (14 and 140°F).
- Keep away from heat sources, sunlight, warm air exhausts, hot-air vents, and heaters.
- Be sure there is adequate airflow.
- Keep the device at least 6 ft (1.83 m) away from the nearest source of electromagnetic noise, such as a photocopier machine.

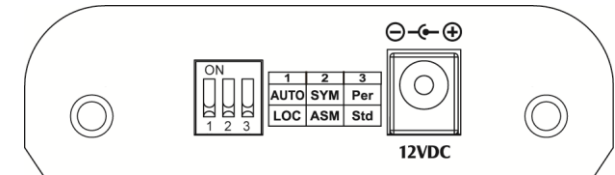
3 Connect to the Data Ports



LED	Color	Status
PWR	Green	ON = Receiving power.
		OFF = Power off.
Ethernet Extender Port		
 Link/Activity	Green	ON = Connection is established.
		OFF = No connection is established.
		Flashing = Port is sending or receiving data.
Per	Green	ON = Performance mode.
		OFF = Standard mode.
RMT	Green	ON = Remote mode.
LOC	Green	ON = Local mode.
SYM	Green	ON = Symmetric mode.
ASM	Green	ON = Asymmetric mode.
Line Speed	Green	ON = Displays the link speed in Mbps.
10/100TX Port		
Link/Activity	Green	ON = Valid network connection.
		OFF = No data transmission on port.
		Flashing = Port is sending or receiving data.
Speed	Yellow	ON = Link speed at 100Mbps.
		OFF = Link speed at 10Mbps.

- Insert one end of the Ethernet cable into a switch port.
- Connect the other end into the Ethernet port of the device.
- 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 Auto mode when two devices are connected.

4 Apply DC Power



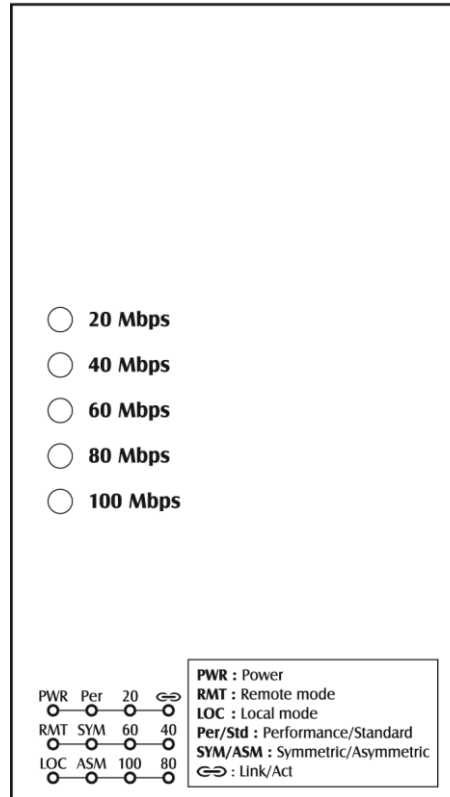
Connect the supplied AC to DC power adaptor to the receptacle on the rear panel of the Ethernet Extender, and then attach the plug into a standard AC outlet.

5 DIP Switch

Pin	Up	Down
DIP Switch 1	Auto mode	Local mode
DIP Switch 2	Symmetric	Asymmetric
DIP Switch 3	Performance	Standard

NOTE: After making changes to the position of any DIP switch, the Ethernet Extender must be rebooted for the new settings to take effect.

6 Top Panel



Distance and data rate for Ethernet Extender port:

Distance (m)	Data Rate (Mbps)
300	100
400	80
600	60
800	40
2600	1

This distance/data rate information is measured according testing standard in EtherWAN laboratory. The actual installation will be affected by the quality of copper wire and the impact of noise disturbance. The connection speed will be affected.

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.

