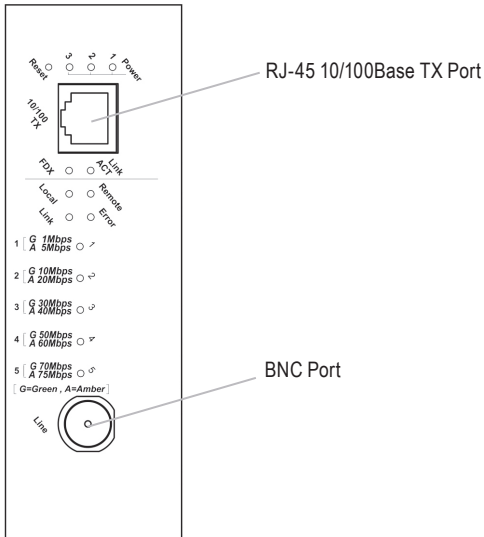
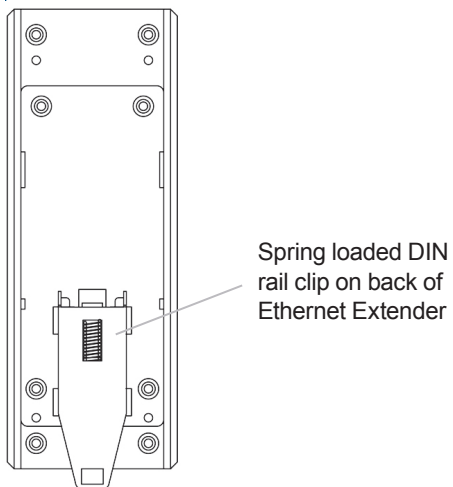


## 5 | Ports

Model EIR-EXTEND-C provides one Ethernet port over existing coaxial cable. The extender has two ports, a RJ-45 10/100Base TX port and the Ethernet extender port. Existing coaxial cable can be used. If coaxial cable requires termination, use BNC or F-connectors. F style will require a BNC to F-Type adapter. When BNC extender ports on the units are connected, the Lnk LED should be lit.



## 6 | DIN Rail Clip Detail



Document Number: EIR-EXTEND-C\_3117qsg

### + Recommended Accessories

+ AC Power Adapter (for EIRx Series),  
Power Jack, 12VDC, 36W, US Plug  
Model# PS12VDC3P (sold separately)



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## + QUICK START GUIDE



### Model EIR-EXTEND-C

Ethernet Coaxial Extender

**Before you begin, be sure you have the following:**

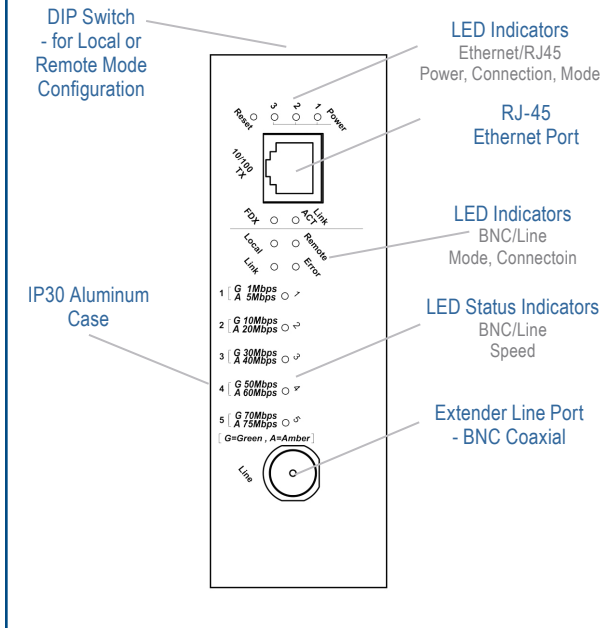
- + Ethernet Coaxial Extender (requires two, each sold separately)
- + BNC to F-Type Adapter (included)
- + 12-48 VDC, 6.8W Power Supply (sold separately)

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# Product Overview



## 1 | Hardware Installation

1. The extender is DIN rail mountable and can be located in environments with wide temperatures ranging from -40 to 75°C. Relative humidity should be between 5% to 95%, non-condensing.
2. Mount the extender on standard DIN rail by hooking the top rear of the extender on to the top edge of the DIN rail. As the unit is pressed into the DIN rail, the spring-loaded bottom tab should snap on, securing the bottom. To remove the extender from DIN rail, use a small flathead screw driver, pull down on the spring loaded tab on the bottom of the extender while pulling bottom outward.
3. Provide DC power to the unit between 12 – 48 Volts. While only one power source is required to power up the Ethernet Extender, using two sources provides redundancy for mission critical applications. The removable terminal block accepts 14 – 24 AWG wire. Use copper conductors only, 60/75°C, 14-24 AWG torque value 4.5 lb-in.

4. Be sure polarity matches the diagram next to the terminal block. Terminals labeled Power are positive; GND is negative. An optional power port labeled Power1 is available with use of 12VDC AC to DC power adapter (Model# PS12VDC3P, sold separately).
5. Set the DIP switch located on the top of the Ethernet extender to Loc (Local) or Rmt (Remote). Ethernet extenders work in pairs and must have one unit set as Loc, the other as Rmt.
6. Connect the Ethernet cable to the RJ-45 port on the front of Ethernet extender.
7. Connect the coaxial cable to the BNC port on the front of the Ethernet extender. Opposite end connects with paired Ethernet extender located elsewhere. Coaxial cable must be terminated with male BNC or F connectors. A BNC to F-Type adapter required for F style connector (included).

## 2 | LED Indicators - Front & Top

The LED indicators give you instant feedback on status of the Ethernet extender. Both port speeds are auto sensed.

Front Panel LEDs (Ethernet and Line Connections)				
Port	LEDs	Status	Description	
Ethernet (RJ-45)	Power 1	Steady	Power On	
	Power 2	Off	Power Off	
	Power 3	Off	Power Off	
	Link/ACT		Steady	Valid Ethernet connection established
			Flashing	Transmitting or receiving Ethernet data (ACT stands for ACTIVITY)
			Off	No valid Ethernet connection nor transmitting/receiving Ethernet data
			Steady	Ethernet connection in full duplex mode (FDX stands for FULL-DUPLEX)
	FDX		Flashing	Collision occurred
		Off	Ethernet connection in half-duplex mode	
		Off	Ethernet connection in half-duplex mode	
Line (BNC)	Remote	Steady	Operating in remote mode	
	Local	Steady	Operating in local mode	
	Error	Steady	Error occurred	
	Link	Steady	A valid connection established between local & remote	

Top LEDs (BNC Line Connections)			
LED	Status	Speed	Distance
1	Green	1~5 Mbps	Up to 2600 m
	Amber	6~10 Mbps	Up to 2400 m
2	Green	11~16 Mbps	Up to 2000 m
	Amber	17~20 Mbps	Up to 1800 m
3	Green	21~29 Mbps	Up to 1600 m
	Amber	30~43 Mbps	Up to 1400 m
4	Green	44~54 Mbps	Up to 1200 m
	Amber	55~63 Mbps	Up to 1000 m
5	Green	64~74 Mbps	Up to 600 m
	Amber	75~85 Mbps	Up to 200 m

Note: Distance and speed may vary. The above table represents the maximum performance that can be expected under ideal conditions.

## 4 | DIP Switch Settings

Ethernet extender mode settings are made very simple by means of a switch at the top of the Ethernet extender. **One device must be set to Local (Loc) and the other to Remote (Rmt) before devices are connected.** The factory setting is Local (Loc).

It makes no difference which unit is designated local and remote as long as they are not both set the same.

