

Quick Start Guide

EIR-EXTEND-C

Ethernet Coaxial Extender



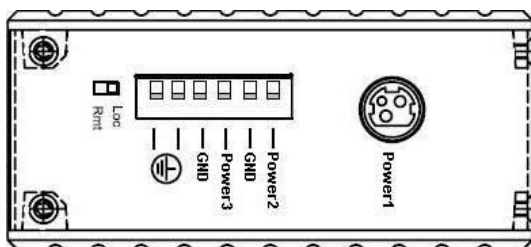
The EIR-EXTEND-C provides one Ethernet port over existing coaxial cable.

1

Items Included

- Ethernet Coaxial Extender
- This Quick Start Guide
- BNC to F-Type Adaptor

Note: Extender requires 12 – 48 VDC, 6.8 watts, power supply (not included).



2

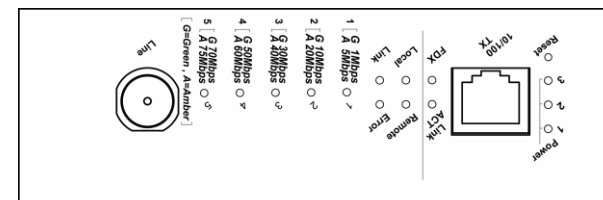
Hardware Installation

1. The extender is DIN rail mountable and can be located in environments with 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 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. The extender can also be panel mounted using the optional panel mount kit EIRPMKT.
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 diagram next to the terminal block. Terminals labeled Power are positive while GND is negative. An optional power port labeled Power1 is available with use of 12VDC AC to DC power adapter (PS12VDC3P).
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. Coax cable must be terminated with male BNC or F connectors. BNC to F-Type adaptor required for F style connector (included).

3

Front Panel & LED Chart

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



Front Panel LED's (Ethernet and Line Connections)

Port	LEDs	Status	Description
Ethernet (RJ-45)	Power1	Steady	Power on
	Power2	Off	Power off
	Power3		
	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
	FDX	Steady	Ethernet connection in full duplex mode (FDX stands for FULL-DUPLEX)
		Flashing	Collision occurred
		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)			
LEDs	Status	Speed	Distance
1	Green	1~ 5Mbps	up to 2600M
	Amber	6~10Mbps	up to 2400M
2	Green	11~16Mbps	up to 2000M
	Amber	17~20Mbps	up to 1800M
3	Green	21~29Mbps	up to 1600M
	Amber	30~43Mbps	up to 1400M
4	Green	44~54Mbps	up to 1200M
	Amber	55~63Mbps	up to 1000M
5	Green	64~74Mbps	up to 600M
	Amber	75~85Mbps	up to 200M

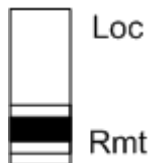
Note: Distance and speed may vary. The above table represents the maximum performance which can be expected under ideal conditions.

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.**

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

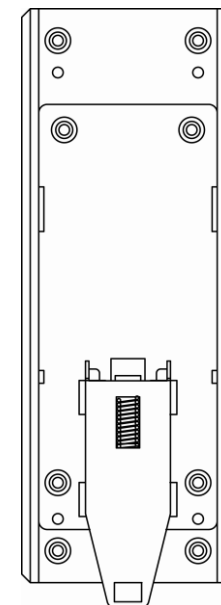
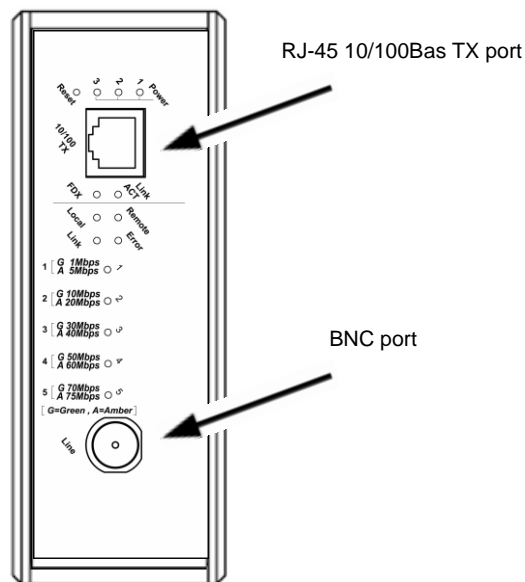


B&B ELECTRONICS

5

Ports

The Ethernet 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 BNC to F-Type adaptor. When BNC extender ports on the units are connected, Lnk LED should be lit.



Spring loaded DIN rail clip on back of Ethernet Extender



BNC to F-Type Adaptor

www.bb-elec.com
Secure online ordering 24/7/365

International Office: 707 Dayton Road - PO Box 1040 - Ottawa, IL 61350 USA
815.433.5100 Fax 815.433.5104 orders@bb-elec.com support@bb-elec.com
European Office: Westlink Commercial Park - Oranmore - County Galway - Ireland
+353 91 792444 Fax +353 91 792445 orders@bb-elec.com support@bb-elec.com