



Model: EIS-EXTEND

## Ethernet Copper Eextender For 10/100 Networks

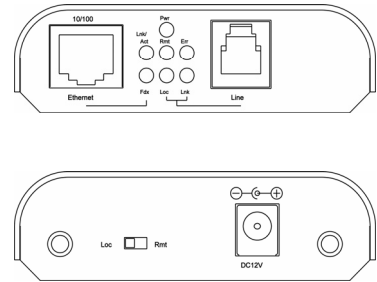
**Extend Ethernet Copper Connections up to 6200 feet**

### Description

The model EIS-EXTEND extends your copper Ethernet connections up to 6200 feet over twisted pair wire. The Ethernet Extender fully complies with IEEE 802.3 10BaseT and IEEE 802.3u 100BaseTX standards. Two EIS-EXTEND models are required for the Ethernet extension, (one at each end of your extension points). This product can be used with included power supply or in the EIS-RACK-16, 19 inch rack mount chassis used to house up to 16 EIS-EXTEND's or EIS media converters.

### Features

- One 10/100Base TX (TX) Ethernet port with RJ-45 connector
- Auto negotiation of speed and duplex mode on TX port
- Auto MDIX on Ethernet port
- IEEE 802.3 10BaseT and IEEE 802.3u 100BaseTX compliant
- Line port uses common RJ-11 connector
- Line port auto senses the speed of 1/3/5/10/15/20/25/30Mbps
- One DIP switch for configuring local or remote mode
- Status LED's for monitoring and connection status
- External AC to DC power adapter included
- Used as a stand-alone device or with a 19 inch rack chassis
- Hot-swappable when used in 19 inch rack chassis



### DIP Switch

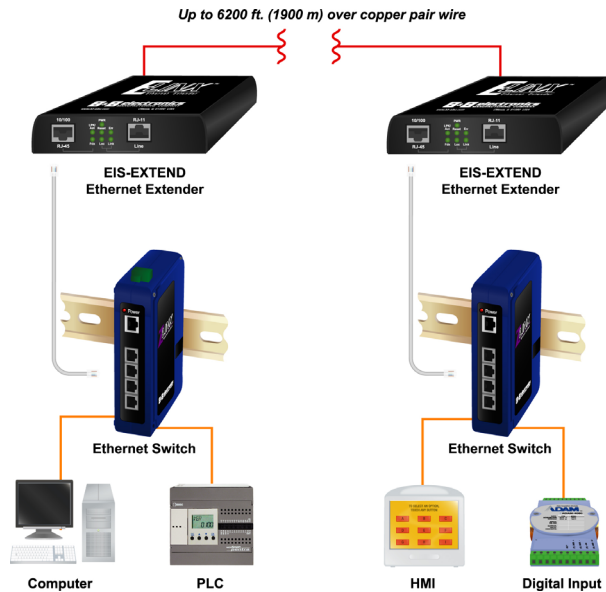
The EIS-EXTEND has a dipswitch used to configure the unit as a Local or a Remote unit. Since these are to be used in pairs and sold separately you can mix and match units as long as one is set to **Local mode (Loc)** and the other is set to **Remote mode (Rem)**. Along with the Dipswitch located in the back of the unit there are some LED's on the front panel near the wire connections that indicate whether the unit is set to local or remote. This is especially handy when installed in the 19 inch rack mount chassis.

### LED Indicators

There are LED indicators located on the front panel near the wire connections and on the top of the unit. The LED's offer instant feedback on the status of the Ethernet Extender:

Front Panel LED's (Ethernet and line connections)			
Port	LEDs	Status	Description
Ethernet	Pwr	Steady	Power on (Pwr stands for POWER)
		Off	Power off
		Flashing	Power off
	Lnk/Act	Steady	Valid Ethernet connection established (Lnk stands for LINK)
		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	Rmt	Steady	The device operates in remote mode
	Loc	Steady	The device operates in local mode
	Err	Steady	Error occurred
	Lnk	Steady	A valid connection established

Top LED's			
LEDs	Status	Speed	Distance
1	Green	1Mbps	up to 1900M
	Amber	3Mbps	up to 1700M
2	Green	5Mbps	up to 1600M
	Amber	10Mbps	up to 1500M
3	Green	15Mbps	up to 1400M
	Amber	20Mbps	up to 1000M
4	Green	25Mbps	up to 800M
	Amber	30Mbps	up to 600M



### Specifications

Applicable Standards	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX
Fixed Ports	(1) 10/100Mbps Ethernet port with RJ-45 connector (1) Line port with RJ-11 connector
Speed	10BaseT: 10/20Mbps for half/full-duplex 100BaseTX: 100/200Mbps for half/full-duplex Line port: 1, 3, 5, 10, 15, 20, 25, 30Mbps
Cable	10BaseT: 2-pair UTP/STP Cat. 3, 4, 5 100BaseTX: 2-pair UTP/STP Cat. 5 Line port: 1-pair unused telephone wire Pins 3 and 4 used Straight or crossed
Switching Method	Store-and-Forward
Forwarding Rate	14,880/148,800pps for 10/100Mbps
LED Indicators	Per Unit: (7 LEDs): Pwr; Rmt, Loc, 1, 2, 3, 4 Per Port: RJ-45 (2 LEDs): Lnk/Act; Fdx RJ-11 (2 LEDs): Err, Lnk
Dimensions	8W × 10.9D × 2.4H mm (3.2W x 4.3D x 0.94H in.)
Weight	0.15kg (5.3 oz.)
Power	Requires 12VDC at 0.2A (power supply included)
Power Consumption	2.4W Max.
Operating Temperature	0°C to 60°C
Storage Temperature	-25°C to 70°C
Humidity	10 to 90%, non-condensing
Emissions	FCC Part 15 Class A, CE Mark

### Installing into 9 inch Rack Chassis: (model EIS-RACK-16)

The Ethernet Extender fits into any of the expansion slots on a 19 inch rack chassis.

1. Install the Ethernet Extender onto a carrier supplied with the chassis:  
Unscrew the desired carrier from the rack chassis.



Fit the Ethernet Extender onto the carrier.



2. When the Ethernet Extender is completely seated onto the carrier, insert the carrier on the guide rails of the expansion slot.



3. Carefully slide the Ethernet Extender/carrier assembly into the chassis until you have a firm fit.
4. With the carrier locking screw re-fasten the carrier to the chassis.

International Headquarters:

815-433-5100 Fax 433-5104 [www.bb-elec.com](http://www.bb-elec.com) [orders@bb-elec.com](mailto:orders@bb-elec.com) [support@bb-elec.com](mailto:support@bb-elec.com)

European Headquarters:

+353 91 792444 Fax +353 91 792445 [www.bb-europe.com](http://www.bb-europe.com) [orders@bb-europe.com](mailto:orders@bb-europe.com) [support@bb-europe.com](mailto:support@bb-europe.com)