# Ethernet Coaxial Extender for 10/100 Networks

Model EIR-EXTEND-C





**PRODUCT FEATURES** 

- One 10/100Base TX (TX) Ethernet port with RJ-45 connector
- Auto negotiation of speed and duplex mode on TX port
- Auto MDI/MDIX on Ethernet port
- IEEE 802.3 10BaseT and IEEE 802.3u 100BaseTX compliant
- Line port uses BNC connector or F-type connector
- · Line port link is full-duplex up to 85Mbps over existing coaxial cable
- One DIP switch for configuring local or remote mode
- · Status LEDs for monitoring and connection status
- Redundant power inputs with terminal block and DC jack

Model EIR-EXTEND-C is a point-to-point Ethernet extender designed to operate in harsh environments. Ethernet connections can extend up to 2600 meters (8,530 feet) using existing coaxial cable.

The perfect solution for legacy surveillance infrastructure upgrades moving from analog to IP-based, as no new cable is needed - saving time, money and labor cost.

Model EIR-EXTEND-C Ethernet extender *must* be used in pairs – one at each end of your existing coaxial cable. Each extender can easily be set to Local or Remote via a DIP switch on the top of the unit.

### **ORDERING INFORMATION**

MODEL NUMBER DESCRIPTION
Hardened 10/100Base-TX Ethernet Copper Extender over Coaxial Cable

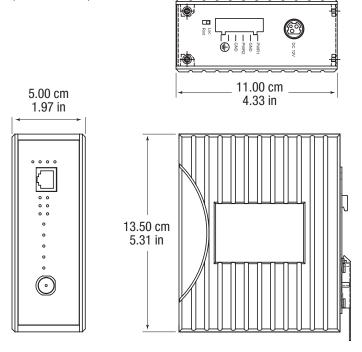
#### **ACCESSORIES**

PS12VDC3P - Hardened AC Power Supply, 12VDC, 36W, 3A, 90-264VAC input, DC jack

MDR-20-24 - DIN rail mount power supply, 24VDC, 1.0 A output power C5UMB3FBG - Category 5e UTP Patch Cord, Beige, 3 ft. (1 m)

### **MECHANICAL DIAGRAM**

(centimeters/inches)



All product specifications are subject to change without notice. EIR-EXTEND-C\_3117ds



# **Ethernet Coaxial Extender** for 10/100 Networks

Model EIR-EXTEND-C



# **SPECIFICATIONS**

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ETHERNET TECHNOLOG					
Standards	IEEE802.3 10Base-T, IEEE802.3u 100Base-T, IEEE802.3x, Ethernet over SHDSL				
Protocols	Transparent to higher layer protocols				
Processing Type	Half-duplex back-pressure and IEEE802.3x Full-duplex flow control				
INTERFACE					
Ethernet Port	RJ-45, 10/100Base-TX Full/Half-duplex Auto- Negotiation, Auto-MDI/MDIX				
Speed	10/100 Mbps				
Distance	328 ft. (100 meters)				
Cable	10Base-T: UTP CAT. 3, 4, 5 (2-pair wire), 100Base-TX: UTP Category 5 (2-pair wire)				
Extender Line Port	BNC Coaxial				
Speed	1/5/10/20/30/40/50/60/70/75 Mbps				
Distance	8,530 ft. (2,600 m)				
Cable	Coaxial Cable (5C2V / RG6AU)				
POWER					
Input Voltage	12 to 48 VDC (Terminal Block); 12VDC (DC Jack)				
Power Consumption	7.2W Max. 0.6A@12VDC, 0.15A@48VDC				
Overload Protection	Present				
Reverse Polarity Protection	Present				
ENVIRONMENTAL					
Operating Temperature:	-40 to 75°C (-40 to 167°F)				
Storage Temperature	-40 to 85°C (-40 to 185°F)				
Humidity	5 to 95% (non-condensing)				
MEANTIME BEFORE FAIL	URE (MTBF)				
MTBF	265,154 hours				
MTBF Calculation Method	Parts Count Reliability Prediction @ 25°C				
MECHANICAL					
Enclosure	Aluminum case, IP30				
Dimensions	5.0W x 11.0D x 13.5H cm (1.97W x 4.33D x 5.31H inches)				
Weight	800 g (1.76 lbs.)				
Installation	DIN rail (top hat type 35mm), Panel Rack Mounting				

## **SPECIFICATIONS - continued**

REGULATORY APPROVALS					
RoHS - Yes					
Safety	UL508				
ЕМІ	FCC Part 15, Class A EN61000-6-4 N55022, EN61000-3-2, EN61000-3-3				
EMS	EN61000-6-2 EN61000-4-2 (ESD Standards) Contact: + / - 4KV; Criteria B Air: + / - 8KV; Criteria B EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM Criteria A EN61000-4-4 (Burst Standards) Signal Ports: + / 2KV; Criteria B D.C. Power Ports: + / 2KV; Criteria B EN61000-4-5 (Surge Standards) Signal Ports: + / - 1KV; Line-to-Line; Criteria B D.C. Power Ports: + / - 0.5KV; Line-to-earth; Criteria B EN61000-4-6 (Induced RFI Standards) Signal Ports: 10Vrms @ 0.15~80MHz; 80% AM Criteria A D.C. Power Ports: 10Vrms @ 0.15~80MHz; 80% AM Criteria A EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz; Criteria A				
Environmental Test Compliance	IEC60068-2-6 Fc (Vibration Resistance) 5g @ 10~150KHz, Amplitude 0.35mm (Operation/Storage/Transport) IEC60068-2-27 Ea (Shock) 25g @ 11ms (Half-Sine Shock Pulse; Operation) 50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport) IEC60068-2-32 Ed (Free Fall) 1m (3.281 ft.)				

### **LEDS**

FRONT PANEL LEDS (ETHERNET AND LINE CONNECTIONS)							
Port	LEDs	Status	Description				
Ethernet (RJ-45)	Power1 Power2 Power3	Steady	Power On (Pwr stands for POWER)				
		Off	Power Off				
	Lnk/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				

### **LEDS** - continued

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