### Ethernet Coaxial Extender for 10/100 Networks

Model EIR-EXTEND-C

### **B**+**B** SMARTWORX

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• Line port link is full-duplex up to 85Mbps over existing coaxial cable .

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One DIP switch for configuring local or remote mode •

Line port uses BNC connector or F-type connector

- Status LEDs for monitoring and connection status
- Redundant power inputs with terminal block and DC jack

One 10/100Base TX (TX) Ethernet port with RJ-45 connector

IEEE 802.3 10BaseT and IEEE 802.3u 100BaseTX compliant

Auto negotiation of speed and duplex mode on TX port

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**

**PRODUCT FEATURES** 

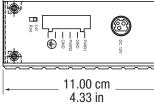
Auto MDI/MDIX on Ethernet port

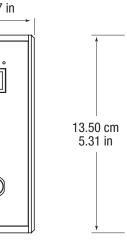
MODEL NUMBER	DESCRIPTION
EIR-EXTEND-C	Hardened 10/100Base-TX Ethernet Copper Extender over Coaxial Cable

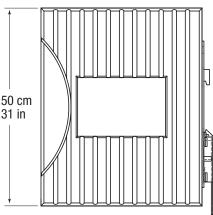
#### ACCESSORIES

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**







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



# 5.00 cm 1.97 in

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## (centimeters/inches)

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### SPECIFICATIONS

ETHERNET TECHNOLOGY					
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				
<b>Reverse Polarity Protection</b>	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	llation DIN rail (top hat type 35mm), Panel Rack Mounting				

### **SPECIFICATIONS** - continued

REGULATORY APPROVALS				
RoHS - Yes				
Safety	UL508			
EMI	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 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			

