



Industrial 2 & 4 port 10/100BaseTX PoE Ethernet Extender

EIRP-EXTEND-2 and EIRP-EXTEND-4



PRODUCT FEATURES

- Extend Ethernet up to 6232 ft. (1.9 km) over existing copper wires
- IEEE802.3at 30W PoE/PSE power for last mile applications
- Complies with UL508 and NEMA TS1/ TS2 environmental requirements for traffic control equipment
- Complies with IEC61000-6-2 EMC generic standard immunity for heavy industrial environment
- Redundant 24 or 48 VDC power inputs
- Wide operating temperature
- Ethernet port: PoE Plus (25W) RJ-45 10/100Mbps Full/Half-duplex, Auto-negotiate/Auto-MDI/MDX
- Ethernet extender port: 1 RJ-11 50Mbps full duplex VDSL
- Port compatible with EIS-EXTEND, EIR-EXTEND-x, EIRM-EXTEND-x

Extending Ethernet to reach IP cameras, IP phones, and Ethernet connected control devices is simple and reliable with B&B Electronics' Ethernet Extenders. The EIRP series extenders offer built-in PoE+ technology which allows the end device, such as an IP camera, to be powered directly from the extended Ethernet port. Used with a second extender the configuration is easy. Configure one unit as the local device, and the other one as the remote device. External power supplies are required (not included).

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
EIRP-EXTEND-2	2-port 10/100BASE-TX IEEE802.3at PoE/PSE Ethernet Extender
EIRP-EXTEND-4	4-port 10/100BASE-TX with 2-port IEEE802.3at PoE/PSE Ethernet Extender

ACCESSORIES

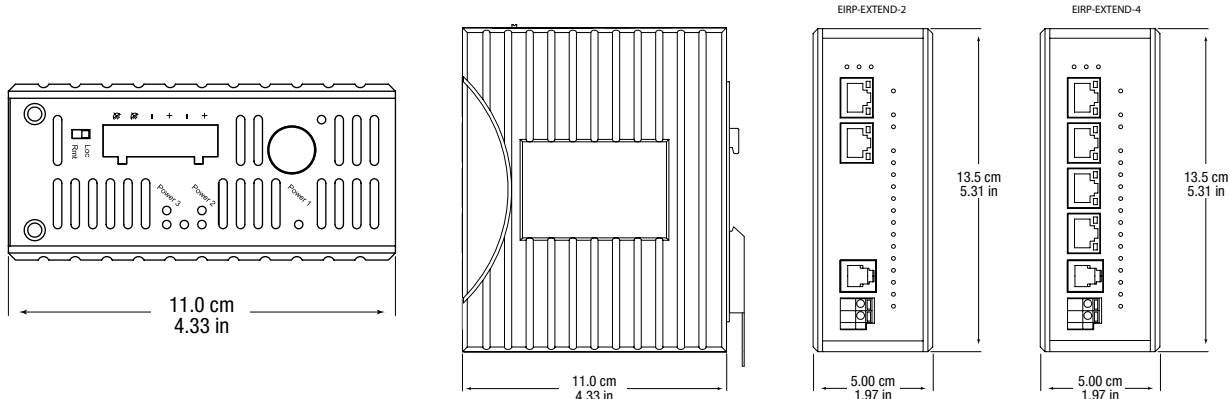
PS12VDC3P - Hardened AC Power Supply, 12VDC, 36W, 3A, 90-264VAC input, DC jack

MDR-20-24 - DIN rail mount power supply 24VDC, 1.0 A output power

MDR-40-48 - DIN rail mount power supply 48VDC, 0.83 A output power

C5UMB3FBG - 3 ft. (1 M) - Beige - Category 5e UTP Patch Cord

MECHANICAL DIAGRAM



Industrial 2 & 4 port 10/100BaseTX PoE Ethernet Extender

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SPECIFICATIONS

TECHNOLOGY	
Standards:	802.3 10BaseT 802.3u 100BaseTx 802.3x Ethernet over VDSL
Protocol	Transparent to higher level Protocols
Processing	Half-duplex: back pressure Full-duplex: 802.3x
POWER	
Input Voltage	48 VDC – Power Jack 24 - 48 VDC Terminal Block
Power Consumption	69.12 W Max, 1.44A@48VDC, when 2 PoE link with PD Class 0 devices. Each PSE Port allows Max. 30W power consumption.
MECHANICAL	
Case	DIN Mount IP30 Aluminum
Dimensions	50 mm (W) x 110 mm (D) x 135 mm (H) 1.97" (W) x 4.33" (D) x 5.31" (H)
Weight	0.8 kg (1.76 lbs)
ETHERNET INTERFACE	
Ports	2 or 4 port 10/100BaseTX, 2 with PoE Plus RJ-45, 10/100BaseTX Full/Half Duplex Auto-Negotiation Auto-MDI/MDX
PoE	Complies with IEEE802.3af / 802.3at standard
Speed	10/100 Mbps
Distance	320 ft. (100 m)
Cable	100Base-TX UTP CAT 5 (4 pair) 100 Ohm impedance
EXTENDER INTERFACE	
Port	One RJ-11 or Terminal Block
Speed	Up to 50 Mbps
Distance	Up to 6,232 ft. (1.9 km)
Cable	24 AWG Copper Pair (0.5mm diameter, 1 pair wire) or larger
*see LED Chart for distance/speed combinations	
ENVIRONMENT	
Operating Temperature	-40 to 75° C Tested to 85° C
Storage Temperature	-40 to 85° C
Operating Humidity	5% to 95% Non-condensing

LED CHART			
1	Green	1 Mbps	6232 ft. (1.9 km)
	Amber	3 Mbps	5904 ft. (1.8 km)
2	Green	5 Mbps	5249 ft. (1.6 km)
	Amber	10 Mbps	4593 ft. (1.4 km)
3	Green	15 Mbps	3936 ft. (1.2 km)
	Amber	20 Mbps	3280 ft. (1.0 km)
4	Green	25 Mbps	2624 ft. (0.8 km)
	Amber	30 Mbps	2296 ft. (0.7 km)
5	Green	40 Mbps	1968 ft. (0.6 km)
	Amber	50 Mbps	984 ft. (0.3 km)
REGULATORY APPROVALS			
ISO	Manufactured in an ISO9001 facility		
Safety	UL508 • FCC Part 15, Class A • EN61000-6-4 • EN55022 • EN61000-3-2 • EN61000-3-3		
EMI	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: + / - 4KV; Criteria B - D.C. Power Ports: + / - 4KV; 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		
EMS	• IEC60068-2-6 Fc (Vibration Resistance) - 5g @ 10 - 150Hz, 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 (3.281ft.)		
Environmental Test Compliance			

Installation:

- DIN Rail (35mm) Panel Mount, Rack Mounting with optional kit.