

Industrial 10/100BASE-TX Ethernet Copper Extender

EIS-EXTEND



19-inch rack system with power supply



Optional, additional power supply

PRODUCT FEATURES

- Extend Ethernet Copper up to 1900 meters (6200 feet) over existing copper wire (common copper, telephone, Cat5e)
- 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 1/3/5/10/15/20/25/30/50Mbps
- One DIP switch for configuring local or remote mode
- Status LED's for speed, 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

ORDERING INFORMATION

| MODEL NUMBER | DESCRIPTION | POWER SUPPLY (INCLUDED) |
|---------------|--|-------------------------|
| EIS-EXTEND | Industrial 10/100BASE-TX Ethernet Extender | USA |
| EIS-EXTEND-EU | Industrial 10/100BASE-TX Ethernet Extender | European |
| EIS-EXTEND-UK | Industrial 10/100BASE-TX Ethernet Extender | United Kingdom |

ACCESSORIES

- EIS-PS-US - Replacement Power supply 12V US Plug
- EIS-PS-EU - Replacement Power supply 12V EU plug
- EIS-PS-UK - Replacement Power supply 12V UK plug
- EIS-RACK-PS - Power Supply For EIS-RACK-16, 84 Watts
- EIS-RACK-16 - Media Converter 19 Inch 2U Rack Chassis - 16 Slots
- C5UMB3FBG - 3 ft. (1 M) - Beige - Category 5e UTP Patch Cord

The model EIS-EXTEND extends your copper Ethernet connections up to 1900 meters (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 units.

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SPECIFICATIONS

| TECHNOLOGY | |
|----------------------------|---|
| Standards | IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3x |
| Protocols | Transparent to higher layer protocols |
| Processing Type | Half-duplex back-pressure and IEEE802.3x Full-duplex flow control |
| Forward and Filtering Rate | 14,880pps for 10Mbps; 148,810pps for 100Mbps |
| INTERFACE | |
| Ethernet Port | Port: One RJ-45 port, 10/100BASE-TX Full/Half-duplex Auto-Negotiation, Auto-MDI/MDIX Speed: 10/100Mbps Distance: 100meters (328 ft.) Cable: 10BASE-T: UTP CAT. 3, 4, 5 (2-pair wire) 100BASE-TX: UTP CAT. 5 (4-pair wire) |
| Extender Port | Port: One RJ-11 Speed: 1/3/5/10/15/20/25/30/40/50Mbps Distance: 1900 meters (6,232 ft.) Cable: 10BASE-T: UTP CAT. 3, 4, 5 (2-pair wire) 100BASE-TX: UTP CAT. 5 (4-pair wire) 100 Ohm impedance |
| DIP Switch | One DIP Switch: Local (CO) or Remote (CPE) configuration |
| LED Indicators | Per Unit: Power Status (Power) Per Port: 10/100TX: Link/Activity, Full-duplex Line: Error, Link, Local, Remote |
| POWER | |
| Input Voltage | 12 VDC |
| Power Consumption | 2.4 W Max. 0.2A @ 12VDC |
| MECHANICAL | |
| Enclosure | Aluminum case |
| Dimensions | 8.03W x 10.92D x 2.38H cm (3.16W x 4.30D x 0.94H in) |
| Weight | 150g (0.33 lb.) |
| Installation | Desktop or 19 inch rack mount chassis system |

| ENVIRONMENTAL | |
|---------------------------|--|
| Operating Temperature | 0°C to 60°C (32°F to 140°F) |
| Tested Temperature | -20°C to 70°C (-4°F to 158°F) |
| Storage Temperature | -25°C to 70°C (-13 to 158°F) |
| Ambient Relative Humidity | 5% to 95% (non-condensing) |
| REGULATORY APPROVALS | |
| ISO | Manufactured in an ISO9001 facility |
| Safety | UL60950-1 |
| EMI/EMS | CE |
| | FCC Part 15, Class A |
| | VCCI Class A |
| Environmental | EN55022 |
| | EN61000-3-2, -3-3, -4-3, -4-4, -4-5, -4-6, -4-8, -6-2, 6-3 |
| | IEC60068-2-6 Fc |
| | IEC60068-2-27 Ea FED STD 101C Method 5007.1 |

PERFORMANCE

| MAXIMUM EXTENSION SPEED | MAXIMUM EXTENSION DISTANCE |
|-------------------------|----------------------------|
| 1 Mbps | 1900 m (6200 ft.) |
| 10 Mbps | 1400 m (4500 ft.) |
| 20 Mbps | 1000 m (3200 ft.) |
| 30 Mbps | 700 m (2550 ft.) |
| 50 Mbps | 300 m (980 ft.) |

MECHANICAL DIAGRAM

