

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
	EN55022
Environmental	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

