The model EIS2-EXTEND extends your copper Ethernet connections up to 2200 meters (7218 feet) over twisted pair wire. The Ethernet Extender fully complies with IEEE 802.3 10BaseT and IEEE 802.3u 100BaseTX standards. Two EIS2-EXTEND models are required for the Ethernet extension, (one at each end of your extension points). The EIS2-EXTEND’s design features high shock, vibration, electrical noise immunity, a wide operating temperature range from -10C to 60C and ruggedized housing. The EIS2-EXTEND can be used with included power supply or in the EIS-RACK-16, 19-inch rack mount chassis used to house up to 16 EIS2-EXTEND units.
Industrial 10/100BASE-TX Ethernet Copper Extender

**EIS2-EXTEND**

**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: 100 meters (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: 2/5/9/10/19/26/33/53/65/100mbps
  - Distance: 2200 meters (7,218 ft.)
  - Cable: Telephone wire 24AWG (0.5mm diameter, 1-pair) or larger

- DIP Switch:
  - DIP Switch 1: AUTO / LOC
  - DIP Switch 2: SYSM / ASM

- LED Indicators:
  - Per Unit: Power 1
  - Per 10/100TX Port: Link/Activity, full-duplex
  - SYSM: Symmetric mode
  - ASM: Asymmetric mode
  - RMT: Remote mode
  - LOC: Local mode
  - Per: On/Performance mode - Off/Standard mode

**POWER**

- Input Voltage: 12 VDC
- Power Consumption: 4.56 W Max. 0.38A @ 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, DIN-Rail (Top hat type 35mm), wall mounting or 19 inch rack mount chassis system

**ENVIRONMENTAL**

- Operating Temperature: -10°C to 60°C (14°F to 140°F)
- Storage Temperature: -20°C to 70°C (-4 to 158°F)
- Ambient Relative Humidity: 5% to 95% (non-condensing)

**REGULATORY APPROVALS**

- ISO: Manufactured in an ISO9001 facility
- CE
- EMI/EMS:
  - FCC Part 15, Class A
  - VCCI Class A
  - EN55022
  - EN61000-3-2, -3-3, -4-3, -4-4, -4-5, -4-6, -4-8, -6-2, -6-3
  - IEC60068-2-6 Fc (Vibration Resistance)
- Environmental:
  - IEC60068-2-27 Ea (Shock)
  - FED STD 101C Method 5007.1 (Free fall w/package)

**PERFORMANCE**

**MAXIMUM EXTENSION SPEED**

- 100: 400m (1312 ft)
- 65: 600m (1969 ft)
- 53: 800m (2625 ft)
- 33: 1000m (3281 ft)
- 26: 1200m (3937 ft)
- 19: 1400m (4593 ft)
- 10: 1600m (5249 ft)
- 9: 1800m (5906 ft)
- 5: 2000m (6562 ft)
- 2: 2200m (7218 ft)

**Note:** All speed selections are Symmetrical on the DSL and Full-duplex on the Ethernet

**MECHANICAL DIAGRAM**