

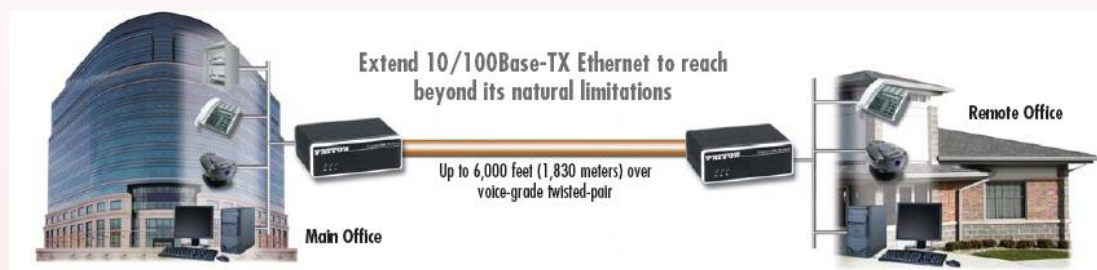
Breaks distance and speed barriers with up to 50-Mbps full-duplex and distances of up to 6,000 feet (1,830 metres). Now a single twisted-pair can go the distance without sacrificing speed or cost.

Features & Benefits

- Ethernet Extension - Extends 10/100Base-TX Ethernet up to 6,000 feet over 2-wire AWG 26 unconditioned lines.
- Operates Over Twisted Pair - Reduces the cost and hassles of new installations. Utilizes installed voice-grade twisted pairs to eliminate the expense of fibre or Cat5e cabling.
- Full-duplex data-line rate of 100 Mbps - Provides near fibre performance for bandwidth intensive applications such as Triple Play services.
- Plug and Play - No configuration or cable hassles during installation with auto-sensing 10/100, full or half duplex, and auto MDI-X.
- Multiple Line Rates Supported - Switch-selectable lines rates ensure the best possible line rate for each application.
- Asymmetric or symmetric - Adapts to service provider and enterprise applications.
- Transparent LAN Bridging - Passes higher layer protocols and supports 802.1Q VLAN tagged and untagged traffic.



Workgroup Ethernet extension application



The Model 2172 multi-rate Ethernet Extenders are ideal for delivering Ethernet links to remote buildings that are beyond the 328-foot (100-meter) distance limit of Ethernet. The 100 Mbps throughput eliminates bandwidth concerns previously experienced with other copper wired transmission technologies. By utilizing existing voice grade copper pairs the expense and hassle of installing low capacitance or fibre cable is no longer required.

Asymmetrical Line Rates

Line Rates (AWG 24/0.5 mm)		Distance in ft (m)
Upstream in Mbps	Downstream in Mbps	
1	4	6,000 (1,830)
1	16	4,000 (1,200)
2	50	2,000 (610)

Symmetrical Line Rates

Line Rates (AWG 24/0.5 mm)		Distance in ft (m)
Upstream in Mbps	Downstream in Mbps	
10	10	4,000 (1,200)
25	25	2,000 (610)
50	50	800 (245)

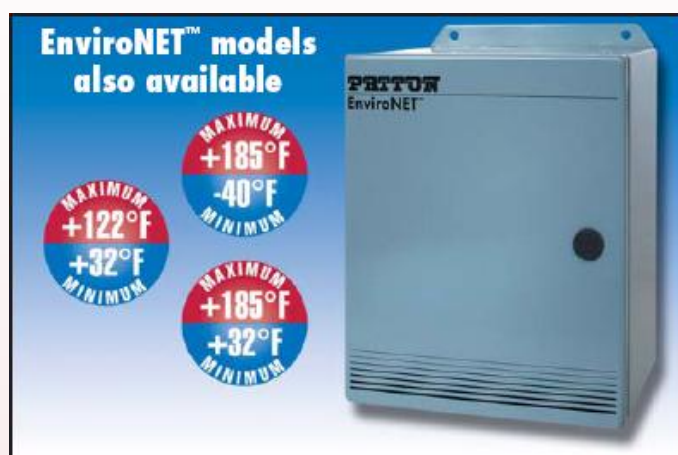


Overview

The CopperLink Model 2172 Ultra-High-Speed Ethernet Extender leverages existing copper infrastructure to deliver high-speed Ethernet extension. Providing data rates up to 50 Mbps in each direction for an aggregated full-duplex speed of 100 Mbps, the Model 2172 is the perfect solution for delivering triple-play communications services and other bandwidth-intensive applications. CopperLink Ethernet Extenders easily inter-connect remote devices or remote networks to a central LAN for such applications as medical imaging, video-conferencing, Ethernet bridging, Triple Play, and VoIP

Six user-selectable settings for symmetrical and asymmetrical rates provide the flexibility required to achieve the optimal speed-distance combination for each and every connection. Multi-rate symmetrical line rates allow each connection to be tuned for the length and gauge of the copper wire, in order to achieve the maximum possible data rate for the environment. Multi-rate asymmetrical line rates make the Model 2172 the ideal solution for service providers who want to differentiate their services or extend the reach of their customer base.

Get near-fibre performance without the expense with Patton's Ultra High-Speed CopperLink Ethernet Extender!



Specifications

CopperLink line interface	RJ-45 (pin 4 = ring; pin 5 = tip)
Ethernet interface	8-position shielded RJ-45. Auto-sensing 10/100Base-T with half or full-duplex operation. DIP switch capable of disabling 100-Mbps full-duplex for equipment that does not support 802.3X (Pause Packets)
Protocol	Transparent to high layer protocol. Supports 802.1Q VLAN tagging
Modulation	Quadrature Amplitude Modulation (QAM) 4-band
Duplexing Method	Frequency Division Duplexing (FDD)
Frequency Range	CopperLink: 0–12 MHz
Transmission	CopperLink line rate: Up to 50 Mbps
Surge suppression	CopperLink line maximum current surge: 20kA (8/20µs) gas tube
Front Panel Indicators	Power, Link, Ethernet
Power Supply	External AC and DC options: 120VAC, and universal input (UI)—100–240 VAC, or optional -48 VDC, -24 VDC, or -12 VDC
Compliance	FCC Part 15A, CE Mark, EMC Directive 89/336/EEC, Low-Voltage Directive 73/23/EEC
Environment	Temperature: 32–122°F (0–50°C) Humidity: Up to 90% non-condensing
Dimensions	1.5H x 4.13W x 3.75D in. (3.81H x 10.5W x 9.53D cm)
Weight	0.4 lbs (0.18 kg) without power supply

Ordering Information

Model #	Description
2172/E	Ethernet Extender; No Power Supply
2172/EUI	Ethernet Extender; 110-240VAC
2172/EUI-2PK	Ethernet Extender Kit (2 units preset to local and remote); 110-240VAC
2172/TB/E48	Ethernet Extender; Terminal Block line; 48VDC
2172/TB/E48-2PK	Ethernet Extender Kit Terminal Block (2 units preset to local and remote); 48VDC
2172/TB/EUI	Ethernet Extender; Terminal Block; 100-240 VAC
2172/TB/EUI-2PK	Ethernet Extender Kit Terminal Block (2 units preset to local and remote); 110-240VAC

For more Information
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