

CONNECTIVITY: LAN PRODUCTS

Overcome the distance limitations of Ethernet with the Patton Model 2158 CopperLink Ethernet Extender. Using a single twisted-pair of voice-grade wire, transparently extend the reach of your network to over 4,500 ft (1,372 m) at 12.5 Mbps.

CopperLink Ethernet Extender

Patton Model 2158 Standalone and Rack Card

The Model 2158 offers one of the most efficient, reliable, and cost effective solutions for connecting peered 10/100Base-T Ethernet LANs; reaching remote PCs and equipment; or delivering last-mile ISP services—all at 12.5 Mbps!

The Model 2158's compact size and connection options make installation easy. The 10/100Base-T Ethernet port is equipped with a shielded RJ-45 jack for connection to an Ethernet hub/switch, PC, or network-enabled device. The CopperLink port is equipped with an RJ-45 jack and a terminal block for easy connection to the CopperLink Extenders. For convenient installation, the Model 2158 auto-senses and configures for 10Base-T or 100Base-T—as well as full or half-duplex—operation.

The CopperLink Ethernet Extender, providing high speed Ethernet extension at 12.5 Mbps, is the ideal product for educational facilities, office buildings, multi-dwelling units, industrial complexes, government agencies, and military installations. If you want to take your network connections farther and faster over existing copper, Patton's CopperLink Ethernet Extenders are the perfect choice. For more information, visit us at www.patton.com.

Long-reach High Speed Ethernet Extension
Overcome the 328 ft (100 m) limitation of Ethernet with a full-duplex 12.5 Mbps link at distances up to 4,500 ft (1,372 m)

Seamlessly Connect and Extend the LAN
802.3 10/100Base-T LAN connection via built-in shielded RJ-45 port

Patton CopperLink 2-Wire Connection
Easy 2-wire CopperLink connection via built-in RJ-45 port or terminal block

Auto-sensing Full-Duplex Ethernet
Auto 10 or 100Base-T and full or half-duplex Ethernet operation

Transparent LAN Bridging
Passes higher layer protocols and supports 802.1Q VLAN tagging

Automatic Learning, Aging, and Filtering
Only allows packets with addresses outside the LAN to be forwarded

CopperLink port offers RJ-45 and terminal block connections, for easy network connections

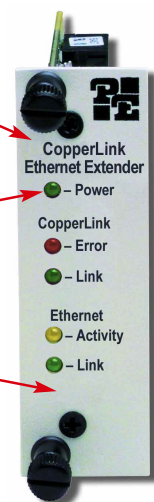
Auto-sensing 10 or 100Base-T, and full or half-duplex

Front panel indicators show operational status at a glance

2U rack card fits into our 1001R chassis for high density clustering

AC or DC power options

Installation is a snap with Plug & Play operation



Model 2158 standalone

Model 2158RC rack card

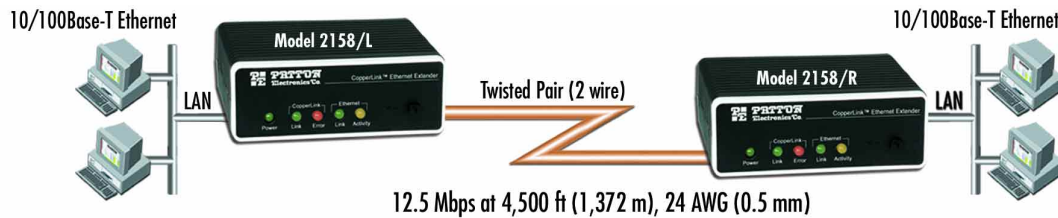
What does the Model 2158 offer?

The Patton Model 2158 offers premium performance on your existing voice-grade wire. With CopperLink™ technology, full-duplex Ethernet is possible at distances up to 4,500 ft (1,372 m) at 12.5 Mbps. The Model 2158 eliminates the cost and common barriers associated with installing new cable or expensive fiber.

- Available in compact desktop and rack card configurations
- Extends the life of your existing copper infrastructure
- Provides premium performance with minimum investment!
- Installation's as easy as 1-2-3!

Features	Benefits
High-speed full-duplex 12.5 Mbps communications link.	Fast and reliable data transmission.
Extends Ethernet beyond its current 328 ft (100 m) limitation.	Inexpensively links remote devices or extends LANs up to 4,500 ft (1,372 m).
Works over existing voice-grade telephone wire.	Eliminates the need to install new LAN-grade cable or expensive fiber.
Operation transparent to high-layer protocols.	Lets higher-layer broadcast, multi-cast, and data frames pass through. Supports VLAN tagged frames.
Five status LEDs.	Monitoring your connection and operational status is made simple.
Auto-sensing 10 or 100Base-T and full or half-duplex Ethernet.	No configuration necessary, just Plug & Play.

Ethernet extension application



Used in pairs, the Model 2158 establishes a high speed 12.5 Mbps communications link inter-connecting two geographically separated LANs. Operation is simple: packets destined for the remote LAN are sent transparently, at full line rate, to the peered LAN.

Patton's CopperLink Ethernet Extenders are a clearly superior and cost-effective alternative to expensive fiber and media converters, or LAN-grade cable and repeaters.

Specifications

CopperLink interface	RJ-45 (pin 4 = tip; pin 5 = ring) and two-position removable terminal block (supports 19–26 AWG or 0.9–0.4 mm wire)
Ethernet interface	8-position shielded RJ45. Auto-sensing 10/100Base-T with half or full-duplex operation
Protocol	Transparent to high layer protocol. Supports 802.1Q VLAN tagging
Transmission	CopperLink line rate: 12.5 Mbps; Data rate: 10 Mbps Full-Duplex
Surge suppression	CopperLink maximum current surge: 20 kA (8/20 μs) gas tube
Front panel indicators	Power, CopperLink Link and Error, Ethernet Link and Activity status
Power supply	External AC and DC options: AC—120 VAC, 220 VAC, and universal input (UI)—100/240 VAC, or DC—48 VDC, -24 VDC, and -12 VDC
Compliance	FCC Part 15 Class A; EMC Directive 89/336/EEC, Low Voltage Directive 73/23/EEC; CE Mark
Environment	Temperature: 32–122°F (0–50°C); Humidity: Up to 90%, non-condensing
Dimensions	Standalone: 1.5H x 4.13W x 3.75D in. (3.81H x 10.5W x 9.53D cm); Rack card: 3.0H x 0.83W x 7.84D in. (7.6H x 2.1W x 19.9D cm)
Weight	Standalone: 0.4 lbs (0.18 kg) without power supply; Rack card: 0.3 lbs (0.14 kg) with rear card



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