

**Take your network connections faster and farther over existing voice-grade wire with the Patton Model 2158A CopperLink Ethernet Extender!**

## Overview

The Patton CopperLink Ethernet Extender 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 Patton Model 2158A offers premium performance over your existing voice-grade telephone wire, eliminating the cost of installing new LAN grade cable or expensive fibre.

CopperLink Ethernet Extenders are compact, easy to install, and transparent to higher layer protocols. Simply connect the network equipment to the shielded Ethernet RJ-45F jack, the twisted-pair telephone wire to the CopperLink RJ-45F jack or terminal block, the external power supplies to the units and an appropriate power source, and you're ready to operate. The CopperLink Ethernet Extenders will auto-sense and configure for 10Base-T or 100Base-T as well as full or half-duplex Ethernet operation. No configuration is required!

Whether you are looking to make your network connections go farther and faster, increase the efficiency of your existing wiring infrastructure, or just simply extending your LAN, Patton's CopperLink Ethernet Extender is one of the most simple and cost effective solutions around!



## 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 optional 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

## Telco Rack System



## Applications

### Ethernet Extension Application

Used in pairs, the Model 2158A establishes a high-speed 12.5 Mbps communication 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. The Patton Model 2158A can also be used to reach remote PCs and other equipment and for delivering last mile ISP services.



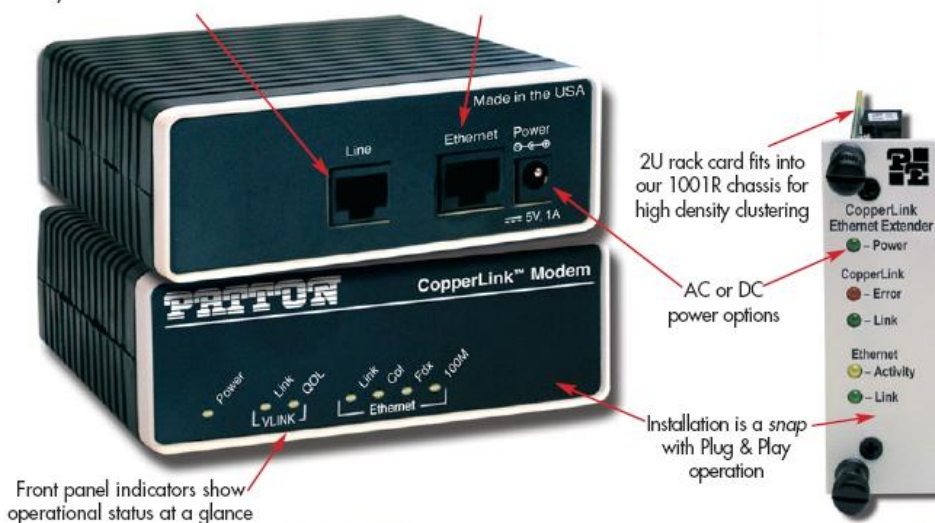
### Back-to-Back Extension Application

Use the Patton Model 2158A units in a back-to-back configuration, using an Ethernet crossover cable, to double the length of your high-speed Ethernet connection!



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

Auto-sensing 10 or 100Base-T, and full or half-duplex. Auto MDI-X for direct connection to PC or LAN



Front panel indicators show operational status at a glance

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.
Seven 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.



## Specifications 2158A

CopperLink™ Ethernet Extenders			
Take your network connections faster and farther over existing voice-grade wire with Patton CopperLink™ Ethernet Extenders!			
Max. Distance	Max. Speed	Distance at Max. Speed	CopperLink™ Model
1 mile	50 Mbps	800 feet	Model 2172R
1 mile	50 Mbps	800 feet	Model 2172
1.1 miles	16.6 Mbps	3,125 feet	Model 2168
0.75 mile	12 Mbps	4,000 feet	Model 2158
5.7 miles	4.6 Mbps	2.0 miles	Model 2157R
5.7 miles	4.6 Mbps	2.0 miles	Model 2157
5.7 miles	2.3 Mbps	3.1 miles	Model 2156
5 miles	144 kbps	5 miles	Model 2155

- CopperLink Interface:** RJ-45 (pin 4=TIP; pin 5=RING)
- Ethernet Interface:** 8-position shielded RJ-45. Auto-sensing 10/100Base-T with half or full-duplex operation
- Protocol:** Transparent to high layer protocols. Supports 802.1Q VLAN tagging
- Transmission:** CopperLink line rate: 12.5 Mbps; Data rate: 10 Mbps full-duplex
- Surge Suppression:** CopperLink maximum current surge: 20kA (8/20\_s) gas tube
- Front Panel Indicators:** Power, CopperLink Link and Error, Ethernet Link and Activity status.
- External Power Supply Options:**
  - AC: 120 VAC and Universal Power Supply (100–240 VAC)
  - DC: -48 VDC, -24 VDC, and -12 VDC (optional upon request)
- Compliance:** FCC Part 15 Class A; EMC Directive 89/336/EEC, Low Voltage Directive 73/23/EEC; CE Mark
- Temperature:** 32 to 122°F (0 to 50°C)
- Altitude:** 0–15,000 ft (4,572 m)
- 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: 3.0 H x 0.83 W x 7.84 D in. (7.6 H x 2.1 W x 19.9 D cm)
- Weight:**
  - Standalone: 0.4 lbs (0.18 kg) without power supply
  - Rack card: 0.3 lbs (0.14 kg)

## Ordering Information

Email: [sales@saratota.co.uk](mailto:sales@saratota.co.uk) Tel: 0845 500 1447

Model #	Description
2158A/EUI-2PK	CopperLink 12.5 Mbps Ethernet Extender Kit (1 Local Unit and 1 Remote Unit); 100-240VAC