CopperLink™ Ethernet Extender

Patton Models 2156 & 2157

Reach your remote LAN with Patton's Auto-Rate Ethernet Extenders and get the best speed/distance combination in the industry using just a single twisted-pair.

High Speed Extension
With the Model 2157 you get speeds up to 4.6 Mbps, while the Model 2156 delivers speeds up to 2.3 Mbps

Auto-rate Selection
Just plug the units in, and they will determine the maximum rate possible for the connection

CopperLink 2-Wire Connection
Easy 2-wire CopperLink connection via built-in RJ-11 port

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

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

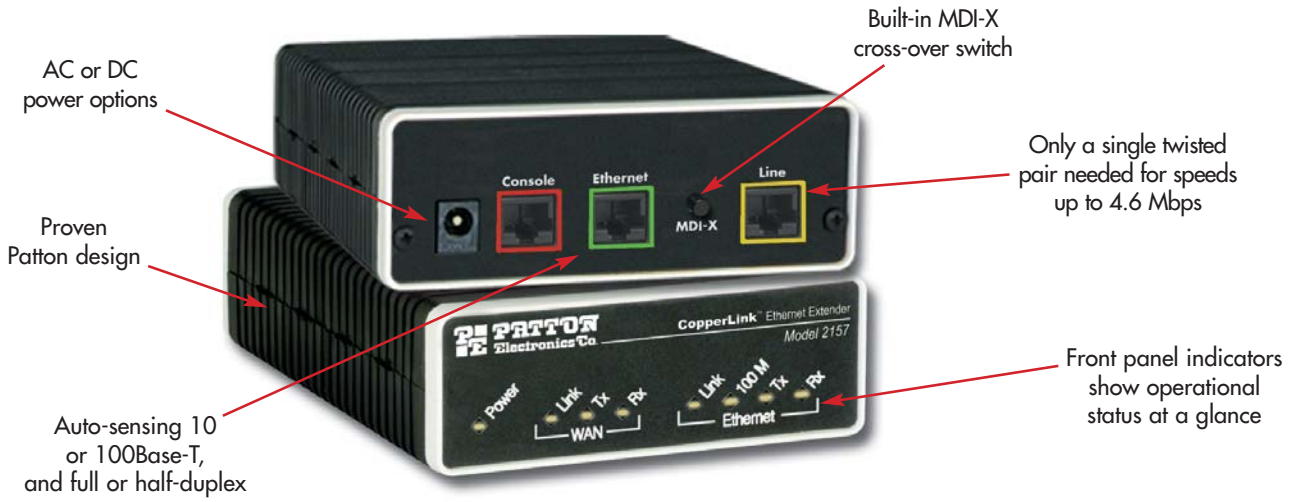
Automatic Learning, Aging, and Filtering
Only allows packets with addresses outside the LAN to be forwarded

LAN extension doesn't have to be expensive or difficult. Patton's Model 2156 and Model 2157 Series of auto-rate Ethernet Extenders open the door to low-cost and easy set-up LAN extension. The LAN Extenders are easy to use and take advantage of existing copper twisted-pair infrastructure to connect LANs at high speed and over long distances.

The Model 2156 can connect at speeds up to 2.3 Mbps with distances ranging from 5.3 to 9.4 km (3.3 to 5.8 miles) on standard 0.5 mm (24 AWG) voice-grade twisted pair. The Model 2157 can connect at speeds up to 4.6 Mbps over distances ranging from 3.3 to 9.4 km (2.1 to 5.8 miles) on standard 0.5 mm (24 AWG) voice-grade twisted pair.

Whether connecting corporate LANs or remote offices, Patton Ethernet Extenders offer the best combination of speed and distance in the industry. Other LAN extenders operate at a single rate or are difficult to configure for LANs located at different distances, but the CopperLink Ethernet Extenders' auto-rate adaptation feature ensures that users get the highest speed possible for the distances they are trying to reach. Patton Ethernet Extenders come with a built-in MDI-X switch, which simplifies connection to LANs or PCs since it works correctly with a straight-through cable or a cross-over cable. Set-up is easy, just connect the Ethernet port cable and the copper twisted-pair to the Extenders, then apply power! Patton CopperLink Auto-rate Ethernet Extenders are the perfect fit for cost-effective simple and efficient LAN extension!

Visit www.patton.com for more information.



Patton Model 2157

PATTON®

Competitive Positioning

Patton's CopperLink Auto-Rate Ethernet Extenders are the perfect fit for simple, cost-effective high speed Ethernet Extension. They allow customers to take advantage of the existing copper infrastructure to connect remote LAN's across distances and at speeds previously unthought-of. The auto-rate feature ensures the highest speed is achieved on each connection, and the plug-n-play operation ensures they are up and running in seconds. Add in the auto-sensing full/half duplex 10/100Base-T Ethernet port and the integrated crossover switch to make setup even easier, and the value of these Ethernet Extenders can't be beat!

- **Auto-Rate Feature**

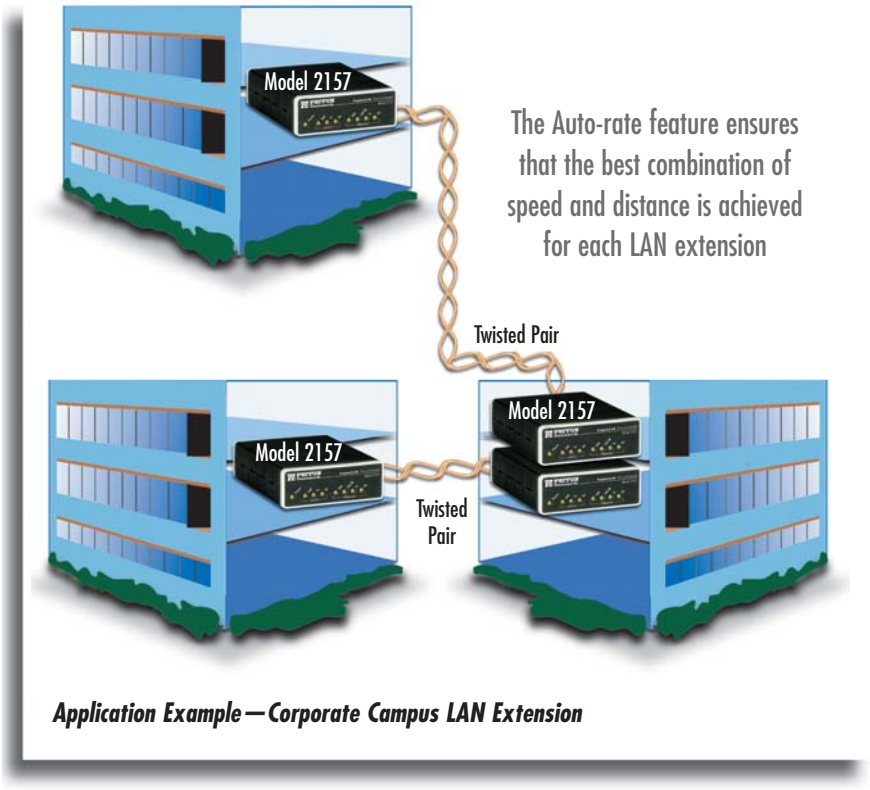
  The advanced auto-rate algorithm automatically determines the best possible rate for each connec tion and sets up each extender without any need for user interface.

- **Plug-and-Play**

  Just unpack the extenders, plug them into each end of the extension, power them up, and they are up and running. It doesn't get any easier!

- **High Speed/Long Reach**

  These Ethernet Extenders provide the best combination of speed and distance seen anywhere in the industry !



Application Example—Corporate Campus LAN Extension

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
FDD (Frequency Division Duplexing)

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

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

Power
External AC and DC options: 120VAC, and universal input (UI)—100–240 VAC, or optional -48 VDC, -24 VDC, or -12 VDC

Environment
Temperature: 32–122°F (0–50°C)
Humidity: Up to 90% non-condensing

Compliance
FCC Part 15A, CE Mark, EMC Directive 89/336/EEC, Low-Voltage Directive 73/23/EEC

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