

Connectivity: LAN PRODUCTS

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.

CopperLink Ethernet Extender Patton Models 2156 and 2157

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 2156 and 2157 series LAN Extenders are easy to use and take advantage of the existing copper twisted-pair infrastructure to connect LAN's at high speed and long distances.

The Model 2156 can connect at speeds up to 2.3 Mbps with distances ranging from 5.3 to 9.4 Km (17,000 to 30,000 ft) on standard 0.5 mm (24AWG) voice grade twisted pair. While the Model 2157 can connect at speeds up to 4.6 Mbps with distances ranging from 3.3 to 9.4 Km (17,000 to 30,000 ft) on the same twisted pair standard 0.5 mm (24AWG) again on just a single twisted pair.

Whether it's connecting corporate LAN's or remote offices, these Ethernet Extenders are the simple solution to ensure the best combination of speed and distance in the industry. Many LAN extender's are set for a single rate, or require difficult configurations in order to connect LAN's at different distances. With their auto-rate adaptation feature, the model 2156 and Model 2157 CopperLink Ethernet Extenders ensure that users get the highest speed possible for the distances they are trying to reach. To make it even more simple to use, these Auto-rate Ethernet Extenders come with a built in MDI-X switch to allow easy connection to either LAN's or PC's with no need for worrying about whether a cross-over cable is needed or not. Set-up is as simple as connecting the Ethernet port, connecting the copper twisted pair, and powering up the units! The Patton CopperLink Auto-rate Ethernet Extenders are the perfect fit for cost-effective simple and efficient LAN extension!

High-Speed Extension

With the Model 2157 get speeds up to 4.6 Mbps and with the Model 2156 get 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

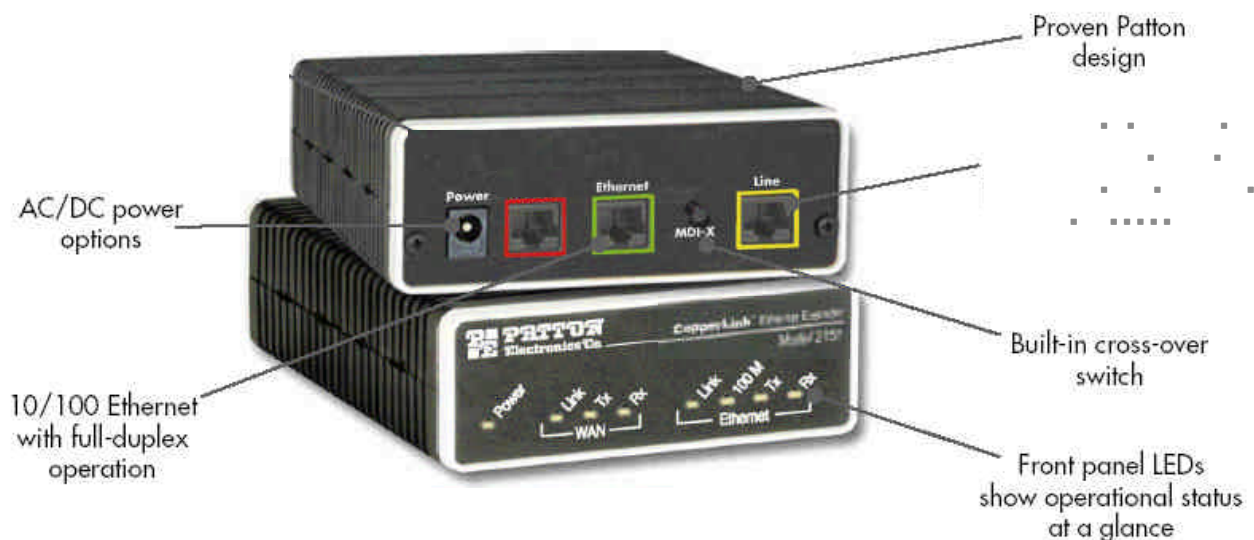
Auto 10 or 100Base-T and full or half-duplex Ethernet operation

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



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 connection and sets up each extender without any need for user interface.

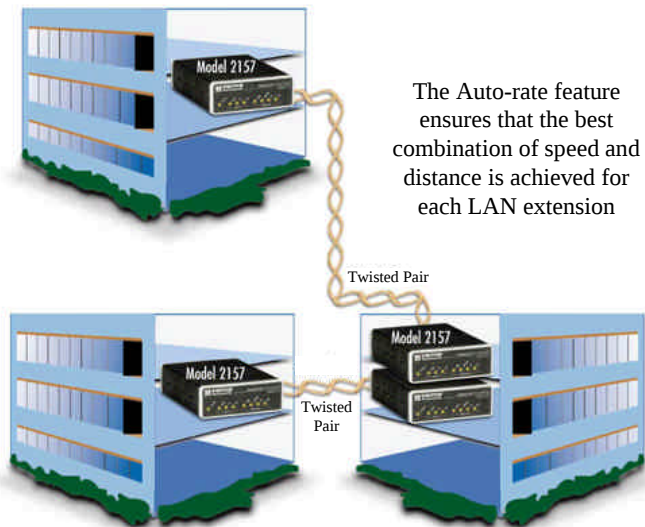
Plug-and-Play

- Just unpack the extenders, plug them in to 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 CopperLink Ethernet Extenders provide the best combination of speed and distance seen anywhere in the industry!

Application Example: Corporate Campus LAN Extension



Specifications

Protocol:	Transparent to higher layer protocols. Supports 802.1 Q VLAN tagged packet transmission
CopperLink Interface:	RJ-11 connector (pin 2 = Ring pin 3 = Tip) Single twisted pair
Ethernet Interface:	8-position shielded RJ-45, auto-sensing 10/100Base-T, Full/Half – duplex operation
Line Rates:	Auto-Rate adaptive from 192 kbps to 4.6 Mbps – Model 2157 Auto-Rate adaptive from 192 kbps to 2.3 Mbps – Model 2157
Surge Suppression:	CopperLink maximum current surge: 20 kA (8/20 ms) gas tube
DTE Rates:	All 64k steps from 192 kbps to 4608 kbps
Line Coding:	TC-PAM
LED Status Indicators:	WAN: Link, TD, RD, Ethernet: Link, 10/100, TD, RD, Power
Connectors:	RJ-11 on copper line side, RJ-45 for Ethernet connection, shrouded male IEC320 power connector;
Power:	External 100 – 240 VAC, 50-60 Hz (Universal Input), 10 W. external 40 – 60 VDC, 10W (DC option – ordered separately)
Line Interface:	Transformer coupled, 1500VAC isolation.
Compliance:	FCC Part 15, FCC Part 68, CE Mark per EMC directive 89/336/EEC and Low Voltage Directive 73/23/EEC, UL1950 and cUL Listed, CE Mark, Canada CS-03, CTR12, CTR13
Temperature	Operating temperature, 32 – 122 deg F (0 – 50 deg C.)
Humidity	5 – 95 %, non-condensing
Altitude	0 – 15,000 feet (0 – 4600 m).
Dimensions:	7.3" x 6.6" x 1.62" (185mm x 168mm x 41mm), 2.0 lbs (1.0 kg)
Weight:	Individual Unit: 0.5 lbs (0.2 kg), Boxed Unit: 2.1 lbs (0.9 kg)



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