



CopperLink™ Ethernet Extender Model 2174

Achieving symmetrical line rates greater than 168 Mbps over single twisted-pair, Cat 5e/6/7 or coaxial cable, Patton's CopperLink™ Model 2174 Ethernet Extender is the fastest CopperLink™ ever.

Ethernet Extension

Extend 10/100Base-TX Ethernet well beyond its 328-foot (100-meter) limitation over a single unshielded twisted pair (UTP), Cat 5e/6/7, or even coaxial cable.

Operates Over Twisted Pair

Realize fiber-optic speeds without the expense—and hassle—of installing new cables or line-of-site wireless circuits.

Plug and Play

Set these units up straight out of the box. No configuration is required. Auto-sensing 10/100 Ethernet ports support full or half duplex operation.

Multiple Line Rates Supported

Switch-selectable rate mode options optimize rate and reach for the noise environment, wire gauge/type and length.

Transparent LAN Bridging

Bypass network configuration requirements by transparently passing all higher layer protocols—including 802.1Q VLAN frames (tagged and untagged). Data-transmission mechanism is fully transparent to such IP video compression schemes as MPEG-4, H.264 and MJPEG.

Perfect for bandwidth-intensive applications the Model 2174 delivers off-the-chart symmetrical line rates greater than 168 Mbps. Best of all—like all CopperLink™ products—the Model 2174 leverages existing copper infrastructure to deliver high speed Ethernet connectivity over single twisted-pair, Cat 5e/6/7, and—new to the CopperLink™ line—coaxial cabling.

Four user-selectable configuration profiles—combined with Patton's auto-rate adaptation feature—ensure maximum achievable symmetrical or asymmetrical rates for the installed noise environment, wire gauge/type and length.

Symmetrical line-rate settings are ideal for such applications as remote LAN extension, video teleconferencing, and data backhaul.

Asymmetrical configurations are well-suited for applications requiring higher downstream speeds and/or longer distances between Ethernet devices. Typical asymmetrical scenarios include medical imaging, livestock monitoring, underwater video, internet gaming, and transporting high-resolution IP video from security cameras.

Realize fiber-like speed and distance without the expense of fiber with Patton's Ultra-High-Speed CopperLink™ Ethernet Extenders.

Visit www.patton.com to view our huge selection of network extension products.

**CopperLink Model 2188
Media Access Concentrator**

- ✓ Connect up to 8 Model 2174s and aggregate them to a 100/1000Base-TX Ethernet link
- ✓ Rackmount or desktop installations (1U high; fits into any 19-inch rack)
- ✓ Supports Plug and Play operation or fine-tuned individual connections



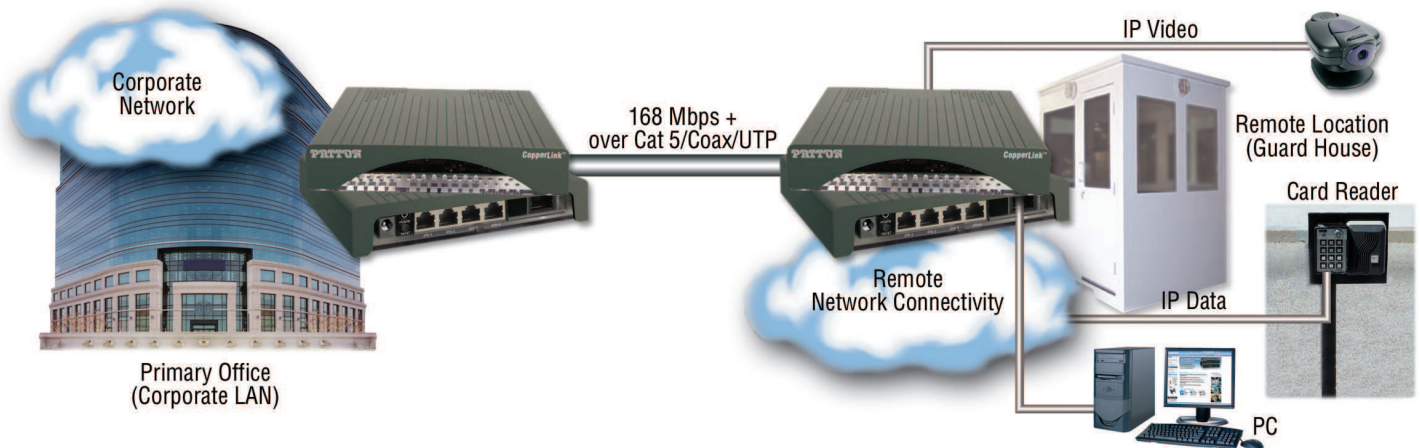
Now Available
in Coax
(2174C)

Extend Ethernet over Cat 5+, Coax, or UTP

A built-in 4-port Ethernet switch makes the CopperLink Model 2174 ideal for delivering multiple IP information streams over a single cable. For example, at a guardhouse or security kiosk, you could aggregate IP data from a laptop, a motion sensor, and two high resolution IP video cameras for simultaneous transmission over a single Ethernet connection.

Combining data flows from up to four network-enabled devices onto a single twisted pair or coax cable, the Model 2174 can deliver IP traffic up to 1.8 miles (3 km) away—well beyond the standard 328-foot (100-meter) Ethernet distance limitation.

With achievable line rates up to 168 Mbps, the CopperLink 2174 eliminates the bandwidth constraints commonly experienced with other copper-based transmission technologies. The Model 2174 is engineered to re-use existing infrastructure previously employed in legacy applications including alarm circuits, E1/T1 circuits, RS-232, RS-422, RS-485, CCTV and CATV. Many newer cabling standards are also supported, including Cat 5e, Cat 6 and Cat 7.



Specifications

Rate/Reach

- Long Range Asymmetrical:**
250 feet: Downstream (DS) 67 Mbps/Upstream (US) 16 Mbps
10,000 feet: DS 4 Mbps/US 263 kbps
- Long Range Symmetrical:**
250 feet: DS 68 Mbps/ US 50 Mbps
10,000 feet: DS 2.5 Mbps/US 1 Mbps
- High Speed Asymmetrical:**
250 feet: DS 168 Mbps/US 95 Mbps
3,500 feet: DS 35 Mbps/US 1 Mbps
- High Speed Symmetrical:**
250 feet: DS 121 Mbps/US 144 Mbps
3,500 feet: DS 30 Mbps/US 4 Mbps

CopperLink Line Interface

- RJ-45 (pin 4 = ring; pin 5 = tip)
- BNC 75 Ω coax
- Terminal block, 2-position

CopperLink Line Modulation

DMT (Discrete Multi-Tone)

Ethernet Interface (x4)

8-position shielded RJ-45. Auto-sensing 10/100Base-TX with half or full duplex operation.

Protocol

Transparent to high layer protocols: supports 802.1Q VLAN tagged or untagged frames. Transparent to IP Video schemes: fully transparent to such compression schemes as MPEG-4, H.264, and MJPEG.

Ethernet Interface (x4)

8-position shielded RJ-45. Auto-sensing 10/100Base-TX with half or full duplex operation.

Impulse Noise Protection Modes

Selectable fast and interleave modes

Target SNR Modes

6 dB & 9 dB

Management

8-position DIP switch

Monitoring

8 LEDs display Power, Link, Ethernet 1-4, Remote, and Local status.

Power Supply

External AC: 100-240 VAC
External DC: -48, -24, or -12 VDC

Compliance

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

Environment

Temperature: 0 to 50°C
Extended Temperature: -40 to 85°C
Humidity: 5 to 95%, non-condensing

Dimensions

6.22 W x 1.25 H x 4.75 L in.
(15.74 W x 3.18 H x 12.07 L cm)

Weight

0.4 lbs (181 g)

PE-Inalp Networks Private Ltd

An Associate of

PATTON
Electronics Co., USA

Old No. 14 and New No.6,
Brahadambal Road,
Nungambakkam High Road
Chennai: 600 034, India
Phone +91 44 45490395/6/7
Fax +91 44 4549.0394
Email sales@patton.co.in
Web www.patton.co.in

Patton-Inalp Networks AG

PATTON
Inalp networks

Meriedweg 7
CH-3172 Niederwangen
Switzerland
Phone +41 (31) 985 25 25
Fax +41 (31) 985 25 26
E-mail sales@inalp.com
Web www.inalp.com

Patton Electronics Co.

PE PATTON
Electronics Co.

7622 Rickenbacker Drive
Gaithersburg, Maryland 20879
USA
Phone +1 301 975 1000
Fax +1 301 869 9293
E-mail sales@patton.com
Web www.patton.com

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