CopperLink[™] Ethernet Extender

Model CL1212E



Achieving symmetrical line rates greater than 168 Mbps over a single twisted-pair or Cat 5e/6/7 cable, Patton's CopperLink™ 1212E 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 cable.

Operates Over Twisted Pair

Realize fiber-optic speeds without the expense—and hassle—of installing new cables or line-of-sight 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

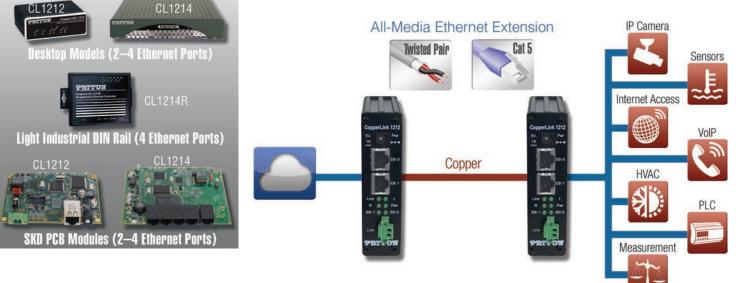
Bypass network configuration requirements by transparently passing all higher layer protocols—including 802.1Q VLAN frames (tagged and untagged).

Typical Application: Extending Ethernet over Cat 5+ or UTP

Combining data flows from up to four network-enabled devices onto a single twisted pair or coax cable, the Model 1212E can deliver IP traffic up to 1.8 miles (3 km) away—well beyond the standard 328-foot (100meter) Ethernet distance limitation.

With achievable line rates up to 168 Mbps, the CopperLink 1212E eliminates the bandwidth constraints commonly experienced with other copperbased transmission technologies. The Model 1212E 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. A built-in 2-port Ethernet switch makes the CopperLink Model 1212E ideal for delivering simultaneous connectivity to more than one IP enabled device such as a laptop, a motion sensor, or even a few high resolution IP video cameras—all over a single twisted-pair!





Compatible Patton CopperLink[™] Models



CopperLink[™] Model CL1212E Ethernet Extender

Specifications*

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 (x2) 8-position, shielded RJ-45. Auto-sensing 10/100Base-TX

with half or full duplex operation.

Model 1211E has one 10/100Base-TX port.

Length

feet (m/km)

250 (76 m)

1,000 (305 m)

2,000 (610 m)

3,000 (914 m) 5,000 (1.5 km)

10,000 (3 km)

Length feet (m/km)

250 (76 m)

1,000 (305 m) 2,000 (610 m)

3,000 (914 m)

3,500 (1 km)

Length feet (m/km)

250 (76 m)

1,000 (305 m)

Rate and Reach

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.

Target SNR Modes

6 dB and 9 dB

Management

Monitoring

6 LEDs display the following status:

- Pwr (Power)
- Line
- Eth (Ethernet) 0 and Eth 1
- R (Remote)

L (Local)

Power Supply

External AC: 100-240 VAC

Compliance

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

Ordering Info

Obtain ordering info for this product by using the QR code at right or by contacting:

Environment

(-20 to 70°C)

Dimensions

ing

mm)

Weight

MTBF

77,000 hours

1 lb 6 oz (623.7 g)

Temperature: -4 to 158°F

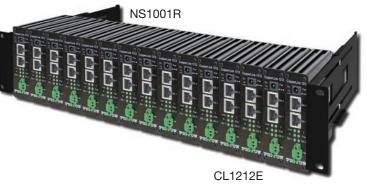
Humidity: 5 to 85%, condens-

1.18 W x 4.28 H x 3.36 D inch

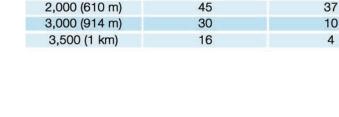
(30.2 W x 108.7 H x 85.3 D

- web: http://www.patton.com/products/ product_detail.asp?id=516&tab=Ordering
- email: sales@patton.com
- tel: +1 301.975.1000

Rack Mount Available









07MCL1212E-DS3

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* Specifications subject to change without notice.

Gaithersburg, Maryland 20879, USA

Upstream

16

16

11

5

682 kbps

263 kbps

Upstream

95

54

21

6

1

Upstream

144

103

Long Range Asymmetrical

Downstream

67

59

45

31

17

4

High Speed Asymmetrical

Downstream

168

126

60

42

35

High Speed Symmetrical

Downstream

121

73

8-position DIP switch

Mbps

Mbps

Mbps

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