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

CI 1212

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

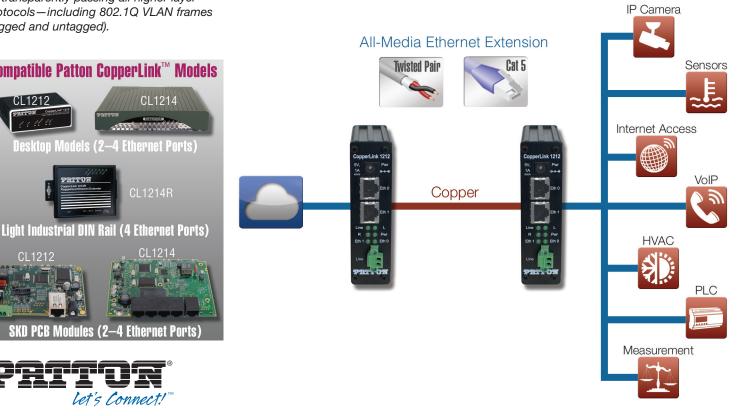
Typical Application: Extending Ethernet over Cat 5+ or UTP

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 (100-meter) Ethernet distance limitation.

With achievable line rates up to 168 Mbps, the CopperLink 1212E eliminates the bandwidth constraints commonly experienced with other copper-based 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 camerasall 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. Autosensing 10/100Base-TX with half or full duplex operation.

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

Protocol

Transparent to high layer protocols: supports 802.1Q VLAN tagged or untagged frames.

Rate and Reach

Long Range Asymmetrical			
Length feet (m/km)	Mbps		
	Downstream	Upstream	
250 (76 m)	67	16	
1,000 (305 m)	59	16	
2,000 (610 m)	45	11	
3,000 (914 m)	31	5	
5,000 (1.5 km)	17	682 kbps	
10,000 (3 km)	4	263 kbps	

High Speed Asymmetrical				
Length feet (m/km)	Mbps			
	Downstream	Upstream		
250 (76 m)	168	95		
1,000 (305 m)	126	54		
2,000 (610 m)	60	21		
3,000 (914 m)	42	6		
3,500 (1 km)	35	1		

High Speed Symmetrical			
Length feet (m/km)	Mbps		
	Downstream	Upstream	
250 (76 m)	121	144	
1,000 (305 m)	73	103	
2,000 (610 m)	45	37	
3,000 (914 m)	30	10	
3,500 (1 km)	16	4	

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07MCL1212E-DS2

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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

8-position DIP switch

Monitoring

6 LEDs display the following status:

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

Ordering Info

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

Power Supply

Compliance

Environment

(-20 to 70°C)

Dimensions

1 lb 6 oz (623.7 g)

Weight

MTBF

77,000 hours

Directive 73/23/EEC

Temperature: -4 to 158°F

External AC: 100-240 VAC

FCC Part 15A, CE Mark, EMC

Humidity: 5 to 85%, condensing

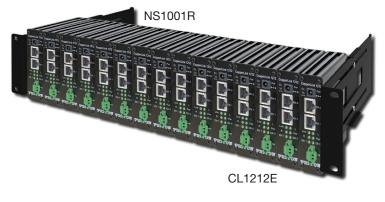
1.18 W x 4.28 H x 3.36 D inch

(30.2 W x 108.7 H x 85.3 D mm)

Directive 89/336/EEC, Low-Voltage

- 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



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* Specifications subject to change without notice.

