# PoE Ethernet Extender

## CopperLink Model 1101

COMMERCIAL GRADE


***Energize your cable***—*Extend Ethernet & Power over Ethernet (PoE) using existing twisted pair(s) or coax. Benefit instantly from the power and flexibility of IP without downtime or infrastructure and installation expenses!*

### Ethernet Extension

*Extends 10/100Base-TX Ethernet over 3,000 feet using 2-wire, 24-AWG twisted-pair, Cat 3, Cat 5e/6/7, or coaxial cable.*

### Delivers PoE

*PowerPlus technology powers up both the remote CopperLink extender and the PoE enabled device connected to it. No power is required at the remote location.*

### Transparent LAN Bridging

*Passes higher layer protocols, including 802.1Q VLAN tagged and untagged packets. Fully transparent to various video compression schemes such as WMV, MPEG-4 and MJPEG.*

### Plug and Play

*Modems need no configuration to operate, Ethernet ports are auto-sensing 10/100, full or half-duplex.*

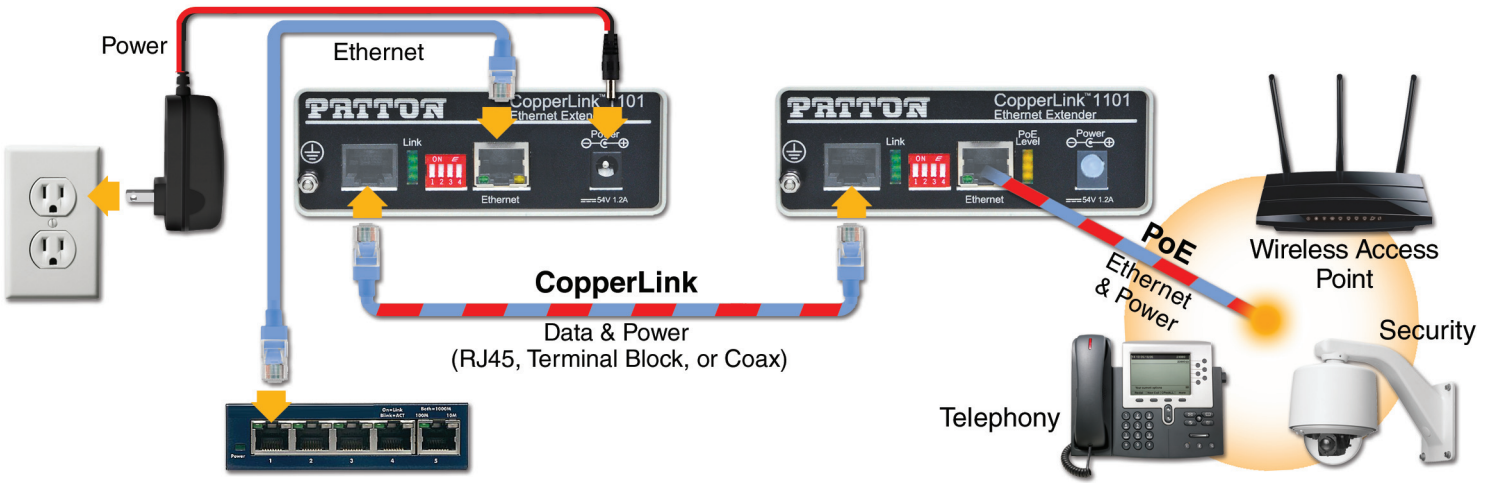
**Check out more of Patton's award winning Ethernet Extension solutions at**
www.patton.com/ethernet-extender

With global expansion of the Internet of Things (IoT), demand for IP/Ethernet-connected devices is soaring. Billions of devices are already capable of connecting to the Internet. Ethernet—and power-over-Ethernet (PoE) in particular—has grown in popularity because it strikes the perfect blend of speed, cost, and ease of use.

Ethernet, however, presents a few drawbacks that may overshadow the benefits by creating escalating infrastructure costs and system downtime. The Ethernet standard specifies a distance limitation of 328 ft (100 m), which restricts location options for device installation. Standard Ethernet also requires Cat 5 cabling or better, which often leads to installing new cabling infrastructure—involving tearing into walls, ceilings, pavement, and worse.

The CopperLink 1101 kit from Patton enables Ethernet connectivity over previously installed copper infrastructure. The solution breathes new life into circuits previously deployed for such traditional non-IP applications as RS232/485 controls, alarms, CCTV, analog phones, intercom speakers, and others.

Instantaneously install PoE-compliant devices such as wireless access points (WAPs), IP cameras, IP telephones, IP door stations, HVAC controls, and more—with no additional overhead cost. With the extended reach the CL1101 kit provides, you can install your IP terminal equipment exactly where you want it! Flexibility of device location is paramount in such applications as building security, where increased perimeter dimension and expanded spot coverage area are critical.




Extend **Power** and **Ethernet** to compliant or legacy PoE devices using already installed twisted-pair cable or coax

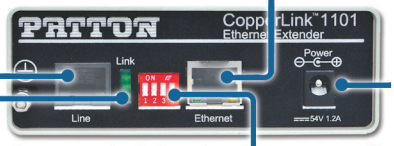
PATTON®
let's Connect!™

# CopperLink™ Model 1101 PoE Ethernet Extender

## Commercial Grade Power over Ethernet Extenders

**CopperLink port**
- Coax
- RJ45
- Terminal Block

**Individual Pair Link Status (LED)**
Supports up to 4 pair




**CL1101 (LOCAL)**
Network Side
PoE Ethernet Extender

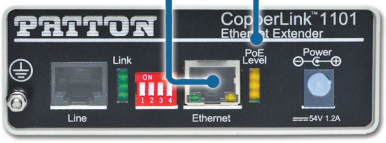
**Ethernet (10/100BaseTX)**

**Power Input**
(AC/DC Power Included)

**Switch Selectable**
- Forced 10 or 100 Line Rate
- Legacy or 802.3af power mode
- # Pairs used

**PoE Port (10/100BaseTX)**

**PoE Level Meter (LED)**




**CL1101 (REMOTE)**
Device Side
PoE Ethernet Extender

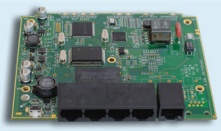
### Power & data performance over twisted-pair wires

| | 10 Mbps | | 100 Mbps | | |
|---|---|---|---|---|---|
| | 2 wire | 4 wire | 2 wire | 4 wire | 8 wire |
| Min. distance feet (meters) | 6 (1.83) | 131 (39.9) | 6 (1.83) | 6 (1.83) | 6 (1.83) |
| Max. distance feet (meters) | 2500 (762) | 3300 (1005) | 915 (278.9) | 1065 (324.6) | 1849 (563.6) |
| Link time Min. distance | 5 sec | 157 sec | 5 sec | 5 sec | 5 sec |
| Link time Max. distance | 5–10 sec | 8–265 sec | 5 sec | 6 sec | 6 sec |
| PoE class at Max. distance | Class 1 | Class 2 | Class 2/3 | Class 4 | Class 3/4 |

### Power & data performance over RG59 coaxial cable

| | 10 Mbps | 100 Mbps |
|---|---|---|
| Min. distance feet (meters) | 6 (1.83) | 6 (1.83) |
| Max. distance feet (meters) | 4925 (1501) | 1225 (323) |
| Link time Min. distance | 5 sec | 5 sec |
| Link time Max. distance | 5–10 sec | 5 sec |
| PoE class at Max. distance | Class 2/3 | Class 4 |

## Industrial Grade Power over Ethernet Extenders



**CL1101E-SKD**
**PCA/OEM Board**

**CL1101E**
**DIN Mount**

**CL1101E**
**Outdoor (IP66)**

**CALL FOR DETAILS**

## Specifications*

### Line Interfaces (Data)
1 x RJ45 (Optional: Terminal Block, Coax)

Supports 1-4 pairs

### Ethernet Interfaces
1 x RJ45 Auto-Sensing 10/100Base-TX with full or half-duplex operation

### LEDs
Power, Line, (10 or 100 operation), Eth, and PoE

### Protocol
Transparent to high layer protocol

Supports 802.1Q VLAN tagged frames

Transparent to IP video schemes

Fully transparent to compression schemes such as WMV, MPEG-4, and MJPEG

### Power Injection (PSE only)
DC voltage on Ethernet port

54 VDC

### Power Consumption
1.5 W

### Power Supply
External AC Adapter
100–240 VAC to 54 VDC

Input: 30–57 VDC
(Recommended 54 VDC)

### Environment
Temperature: 0 to 50°C (standard)

Humidity: 10 to 95% (non-condensing)

### Physical
0.71 H x 1.1 W x 2.56 D in.
(18 H x 28 W x 65 D mm)

0.78 oz (22 g)

### MTBF
83,043 hours

### Compliance
FCC Part 15A, Class B

CE Mark
EMC Directive 89/336/EEC
LVD Directive 73/23/EEC

Made in USA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* Specifications subject to change without notice.