

High Speed Ethernet Extenders

CopperLink 2110 Ethernet Booster



Patton's Model 2110 Ethernet Booster offers PoE Injector, Ethernet Extender, and PoE Ethernet repeater options. Doubles Ethernet and PoE distances over existing copper wire.

Overview

The CopperLink™ Model 2110 doubles Ethernet distance limitations of 328 feet (100 meters). Multiple Model 2110 Ethernet Boosters can be placed in-line to further extend both Ethernet and PoE up to 1,640 ft (500 m), eliminating the need for additional switches, hubs, wireless access points, and expensive fiber installations. The Model 2110 is completely transparent to protocol making them true plug-and-play devices, completely interoperable with any network enabled device. The Model 2110 will not cause latency or degradation on your network connections, ensuring the maximum 100-Mbps full-duplex line rate. The Model 2110P and 2110PSE not only transparently pass on Ethernet data, but also feed on and forward PoE power to devices such as wireless access points, IP cameras, and VoIP phones.

802.3af Power and Distance Chart

| Model | Power Delivered Class of PoE Device PoE Source | 13W | 6.5W | 3.84W | 0W |
|-------------------|--|------------------|----------|----------|-------------|
| | | Class 3/0 | Class 2 | Class 1 | No PoE Load |
| | | Maximum Distance | | | |
| 2110/P | PoE switch | N/A | 300 m | 400 m | 500 m |
| | | | 984 ft | 1,310 ft | 1,640 ft |
| 2110/PSE + 2110/P | PoE Injector 2110/PSE/EUI | 400 m 1,312 ft | 500 m | 500 m | 800 m |
| | | | 1,640 ft | 1,640 ft | 2,625 ft |
| 2110/EUI | No PoE | N/A | N/A | N/A | N/A |

Features

- **Ethernet & PoE Extension**—Doubles 10/100Base-TX Ethernet and PoE to 200 meters (656 feet). Multiple units can be used in series for even longer extensions.
- **Operates over CAT5**—Reduces the cost and hassles of adding switches, hubs, and wireless access points.
- **Plug and Play**—No configuration or cable hassles during installation with auto-sensing 10/100, full or half duplex, and automatic MDI-X.
- **Transparent LAN Operation**—Transparent operation ensures the highest rate possible for each extension distance.
- **No External Power Required**—Power over Ethernet (PoE) capability enables both extenders and peripheral devices to be powered over standard twisted-pair Ethernet cable.
- **Made in the USA** — This Patton equipment is designed by Patton engineers and built in our Gaithersburg, Maryland facility. Patton's American-made manufacturing process delivers high-quality networking solutions with reliability you can trust.

PoE Injector, Ethernet Extender & PoE Repeater | CopperLink 2110 Ethernet Booster

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CopperLink™ Copper Ethernet Extenders

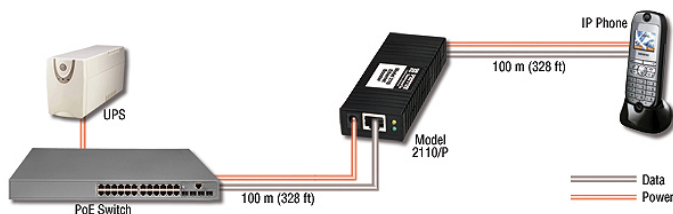
Take your network connections faster and farther over existing voice-grade wire with Patton CopperLink™ Ethernet Extenders!

| # of Ethernet Ports | # of wire pairs | Max. Speed (Mbps) | Distance at Max. Speed | CopperLink™ Model |
|---------------------|-----------------|-------------------|--|---|
| 2 | CAT5+ (4) | N/A | 2,625 ft/0.8 km (328ft/100m per 2110) | 2110 (https://www.patton.com/products/pe_products.asp?category=398) |
| 2 | 1 | 100 | 500 ft/0.15 km | 2173 (https://www.patton.com/products/pe_products.asp?category=424) |
| 4 | 4 | 45.6 | 4,600 ft/1.4 km | 2162 (https://www.patton.com/products/pe_products.asp?category=416) |
| 4 | 2 | 22.8 | 4,600 ft/1.4 km | 2161 (https://www.patton.com/products/pe_products.asp?category=416) |
| 2 | 1 | 15 | 2,953 ft/0.9 km | 2151 (https://www.patton.com/products/pe_products.asp?category=426) |
| 4 | 1 | 11.4 | 4,593 ft/1.4 km | 2160 (https://www.patton.com/products/pe_products.asp?category=416) |
| 2 | 1 | 10 | 4,265 ft/1.3 km | 2150 (https://www.patton.com/products/pe_products.asp?category=425) |
| 1 | 1 | 4.6 | 10,827 ft/3.3 km | 2157 (https://www.patton.com/products/pe_products.asp?category=160) |
| 1 | 1 | 2.3 | 16,404 ft/5.0 km | 2156 (https://www.patton.com/products/pe_products.asp?category=159) |

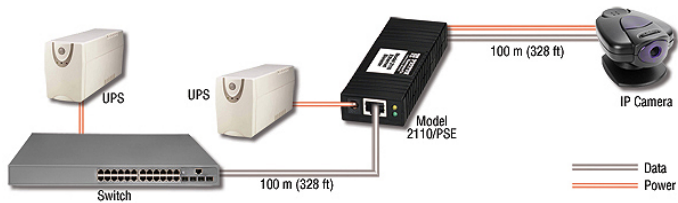
Applications

The CopperLink Ethernet Booster is ideal for delivering Ethernet to remote network enabled devices located outside Ethernet's limited range of 328 feet (100 meters). Several configurations are possible based on individual requirements.

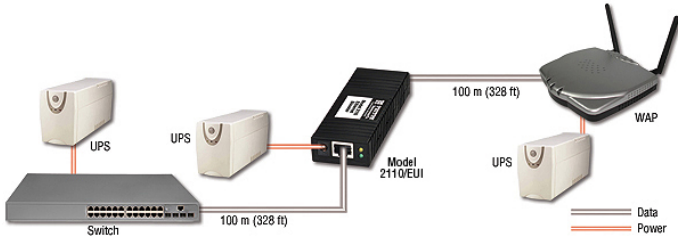
Model 2110/P: PoE Pass Through & Ethernet Extension



Model 2110/PSE: PoE Injection & Ethernet Extension







Model 2110/EUI: Ethernet Extension



Specifications

| | |
|------------------------------|--|
| Ethernet Connection | Two Ethernet ports 10/100Base-TX; 802.3af •Auto-Negotiating 10/100 •Supports Flow Control (IEEE803.X) for full duplex operation •Supports back pressure for half-duplex operation •Store and forward •Auto MDI-X •802.3af pass through |
| LED Status Indicators | PoE/Power (Green): Glows solid when there is power to the unit •Ethernet (Green): Flashes when passing traffic |
| Power | Rated Voltage: 12 VDC (/EUI) or 57 VDC (/PSE or /P) •Rated Current: 700 mA |
| Operating Temperature | 32-122°F (0-50°C) |
| Operating Humidity | Up to 90%, non-condensing |
| Dimensions | 3.88L x 1.75W x 0.75H in. (9.8Lx 4.4W x 1.9H cm) |
| Weight | 0.13 lbs (0.06 kg) |

Ordering

| # Model # | Description | Availability |
|---|--|----------------------|
| 1 080511-07M | 2110/PSE REPLACEMENT POWER SUPPLY AC/DC,UNIV IN,48VOUT,625MA,DSKTOP,2.5MM | |
| 2 2110/EUI | CopperLink 10/100 Mbps Ethernet Booster; 100-240 VAC | General Availability |
|  Accessories | | |
| 3 2110/P | CopperLink 10/100 Mbps Ethernet Booster; 802.3af pass through | General Availability |
|  Accessories | | |
| 4 2110/PSE/EUI | CopperLink 10/100 Mbps Ethernet Booster; 802.3af; Injector 54VDC Source | General Availability |
|  Accessories | | |
| 5 2110/PSE/EUI-48 | CopperLink 10/100 Mbps Ethernet Booster and 802.3af PoE Injector; 48VDC Source | Special Order |
|  Accessories | | |

| Item Number | Item Description | Price |
|---|------------------------------------|---|
| SVC-SmartCare-BH (/support/support.asp) | Premium Support for Business Hours | Contact us (/howtobuy/) for availability and pricing. |
| SVC-SmartCare-24/7 (/support/support.asp) | Premium Support, 24 x 7 Coverage | Contact us (/howtobuy/) for availability and pricing. |
| SVC-SmartAssist-BH (/support/support-professional.asp) | Business Hour Support Services | Contact us (/howtobuy/) for availability and pricing. |
| SVC-SmartAssist-AH (/support/support-professional.asp) | After Hours Support Services | Contact us (/howtobuy/) for availability and pricing. |

| | | |
|--|---|--|
| SVC-ENHWAR1 (/support/support-warranty.asp) | 1 Year Enhanced Warranty | Contact us (/howtobuy/) for availability and pricing. |
| SVC-ENHWAR2 (/support/support-warranty.asp) | 2 Year Enhanced Warranty | Contact us (/howtobuy/) for availability and pricing. |
| SVC-ENHWAR3 (/support/support-warranty.asp) | 3 Year Enhanced Warranty | Contact us (/howtobuy/) for availability and pricing. |
| SVC-ENHWAR4 (/support/support-warranty.asp) | 4 Year Enhanced Warranty | Contact us (/howtobuy/) for availability and pricing. |
| SVC-ENHWAR5 (/support/support-warranty.asp) | 5 Year Enhanced Warranty | Contact us (/howtobuy/) for availability and pricing. |
| SVC-EXTWAR2 (/support/support-warranty.asp) | 2 Year Extended Warranty | Contact us (/howtobuy/) for availability and pricing. |
| SVC-EXTWAR3 (/support/support-warranty.asp) | 3 Year Extended Warranty | Contact us (/howtobuy/) for availability and pricing. |
| SVC-EXTWAR4 (/support/support-warranty.asp) | 4 Year Extended Warranty | Contact us (/howtobuy/) for availability and pricing. |
| SVC-EXTWAR5 (/support/support-warranty.asp) | 5 Year Extended Warranty | Contact us (/howtobuy/) for availability and pricing. |
| SVC-NETENG-HOUR (/support/support-professional.asp) | Network technician hour rate for pre-config services, after hours support, etc. | Contact us (/howtobuy/) for availability and pricing. |

Related Products

| | |
|---|---|
| CopperLink 1212 (/products/product_detail.asp?id=516) | Ultra-High-Speed Copper Dual-Port Ethernet Extender 168 Mbps Downstream |
| CopperLink 1214 (/products/product_detail.asp?id=501) | Ultra-High-Speed Copper Ethernet Extender 168 Mbps Downstream |
| Model 1001MP16 (/products/product_detail.asp?id=29) | 16-Slot Universal Mounting Panel |

Backgrounders

FiberPlex Capabilities Guide (/backgrounders/FiberPlex_Capabilities_Statement.pdf)

October 6, 2017

Certifications

| | |
|--|-------------------|
| Patton Devices Not Vulnerable to Meltdown and Spectre Side-Channels Attacks (/certifications/Patton-Meltdown-Spectre-Statement.pdf) | January 4, 2018 |
| Declaration of Conformity - Model 2110 Ethernet Extender (/certifications/03337D1-001C.pdf) | December 11, 2012 |

Data Sheets

| | |
|--|----------------|
| Patton Product Life Cycle Color Codes (/datasheet/Life-Cycle-Availability-Codes.pdf) | April 24, 2015 |
| Model 2110 Datasheet (/datasheet/2110_datasheet.pdf) | July 27, 2009 |
| Model 2110 Datasheet (A4 page size) (/datasheet/2110-A4_datasheet.pdf) | July 27, 2009 |

Product & Solution Guides

| | |
|--|--------------------|
| Ethernet Extenders Product Guide (/guides/07METHEXT-PG.pdf) | September 28, 2016 |
| CopperLink EMV-Compliant Dispensers Solutions Guide (/guides/07MCL1200-GS-SOL.pdf) | February 24, 2016 |

User Manuals & Configuration Guides

| | |
|---|---------------|
| Model 2110 User Manual (/manuals/2110-UM.pdf) | March 5, 2010 |
|---|---------------|

White Papers & Success Stories

| | |
|---|---------------|
| Outdoor Time-Lapsed IP Photography with Patton's Rugged EnviroNET™ Power-over-Ethernet Extender (/whitepapers/reality_check_enbridge.pdf) | June 15, 2012 |
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