

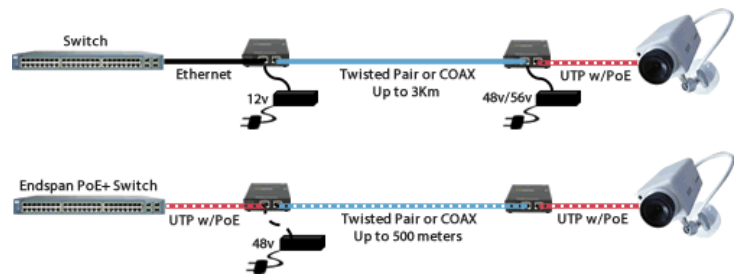
PoE Ethernet Extenders

 perle.com/products/poe-ethernet-extender.shtml

Ethernet Extender and PoE injector all in one device

PoE Ethernet Extenders **supply up to 30 Watts PoE** to attached devices, such as IP cameras, VoIP phones, and wireless access points, while simultaneously transmitting Ethernet data **over Coax or any 2-wire 24 AWG twisted pair up to 1.9 Miles (3km)**. This is an ideal solution for devices that need to receive power and data but are installed in locations beyond the 100 meter reach of copper. While using standard UTP cables that carry Ethernet data, Perle PoE Ethernet Extenders operate as Power Sourcing Equipment (PSE) to supply Powered Devices (PDs). Perle has PoE Ethernet Extender models that support the IEEE 802.3af PoE standard (15.4W of power) or the IEEE 802.3at PoE+ standard (30W of power).

At the central site, the Ethernet Extender has full PoE support and can **also operate as a Powered Device (PD)** supporting end-span and mid-span power sources. Alternatively, the unit can be powered by the included 48v adapter. The PoE Ethernet Extender at the central site then transmits power over the copper wire to the remote PoE Ethernet Extender and attached PD. The remote PoE Ethernet Extenders are classified as a PSE.



Perle PoE Ethernet Extenders

eXP-S1110PE

Supply PoE+ (IEEE 802.3at) up to 30W

- 1 or 4 RJ45 10/100/1000 PoE+ PSE ports
- RJ45, BNC or Terminal Block Interlink (VDSL2) Connectors
- 0°C to +50°C operating temperature



eXP-S1110

Supply PoE (IEEE 802.3af) up to 15.4W

- 1 or 4 RJ45 10/100/1000 PoE PSE ports
- RJ45, BNC or Terminal Block Interlink (VDSL2) Connectors
- 0°C to +50°C operating temperature



eXP-S1110-XT

Supply PoE+ (IEEE 802.3at) up to 30W

- 1 or 4 RJ45 10/100/1000 PoE PSE ports
- RJ45, BNC or Terminal Block Interlink (VDSL2) Connectors
- -40°C to +75°C operating temperature



eXP-S110P

Supply PoE (IEEE 802.3af) up to 15.4W

- 1 or 4 RJ45 10/100 PoE PSE ports
- RJ45, BNC or Terminal Block Interlink (VDSL2) Connectors
- 0°C to +50°C operating temperature



eXP-S110-XT

Supply PoE (IEEE 802.3af) up to 15.4W

- 1 or 4 RJ45 10/100 PoE PSE ports
- RJ45, BNC or Terminal Block Interlink (VDSL2) Connectors
- -40°C to +75°C operating temperature



IDS PoE+ Switches

Need more PoE ports?

- **Up to 8 (100W 802.3bt) PoE PSE ports**
- Optional 1 or 2-ports Fiber with SFP, SC, or ST
- -40°C to +75°C operating temperature



Why Choose a Perle PoE Ethernet Extender?

Link Error Detection & Recovery

Low-end Ethernet Extenders will always make the end-to-end network connection appear as up and running, even though it may be disconnected. Perle Ethernet Extenders have an on-board microcontroller to continuously monitoring the status of the links. If there is a break or failure in the link, both end devices become aware and react accordingly.



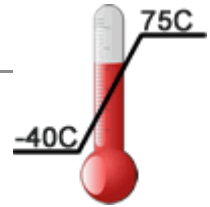
Reliable PoE Ethernet Extenders

Perle Ethernet Extenders only use high-end components from leading chip manufacturers to ensure product reliability. Most Ethernet Extender manufacturers do not publish (or make very difficult to find) their MTBF's. Perle is proud to publish the **high MTBF rates** on the Hardware Specs for each product. In addition, we provide the best-in-class Lifetime Warranty.



Industrial Temperature Grade

Many manufacturers only use commercial parts that will fail in environments with extremely high or low temperatures. Integrated PCB circuits will overheat and under-rated connectors will not allow for proper contact between the device and cables. To prevent this, every component used in Perle Industrial Temperature Ethernet Extenders has been designed and tested to handle operating temperatures between -40°C and 75°C.



Advanced Features

Perle PoE Ethernet Extenders are Plug-and-Play with Auto-configuration of VDSL and also contain advanced features like Link Pass-Through, Interlink Fault Feedback, Auto-MDIX, and Loopback.



Technical Support

We have sales and technical support staff around the globe to support you. If you need help choosing the best Ethernet Extender for your application, we provide technical consultations by phone or email. And, even though Perle Ethernet Extenders are Plug-and-Play, post-sales support is easy to contact.



Trust

Perle has been providing reliable device connectivity solutions **since 1976**. **That's over 40 years** of experience that businesses around the globe have come to trust to deliver superior connectivity technology for mission-critical applications.



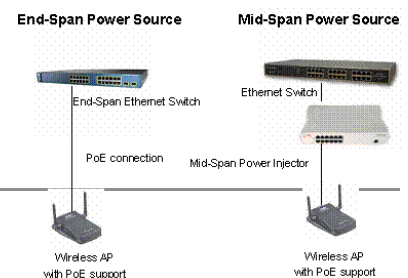
PoE Ethernet Extender Applications

A Background on Power Over Ethernet

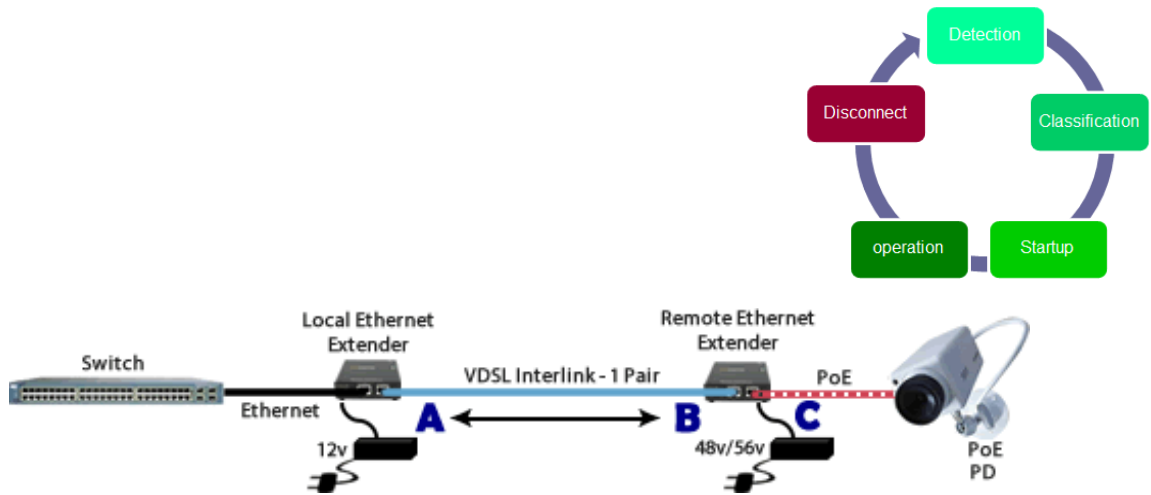
Learn about the evolution of IEEE 802.3bt, 802.3at, and 802.3af standards as well as understanding the differences between PSEs, Single-signature PDs, and Dual-signature PDs.

PoE Power Management Controller Benefits

To fully comply with IEEE 802.3af/at standards, properly designed PoE PSEs will have built-in PoE Management Controllers to meet the low voltage requirements of the SELV (Safety Extra Low Voltage) as defined in ISO/IEC 60950.

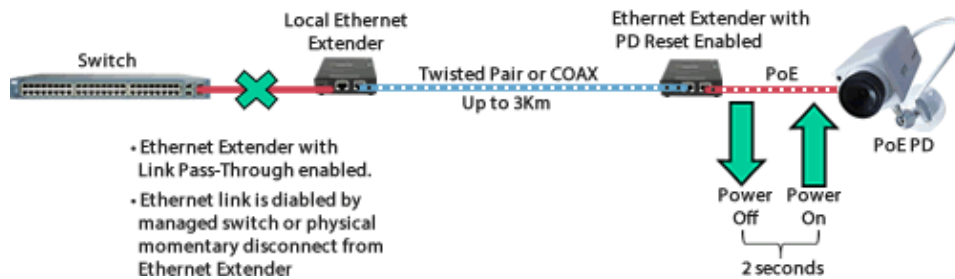


Power Reach Installation Planning



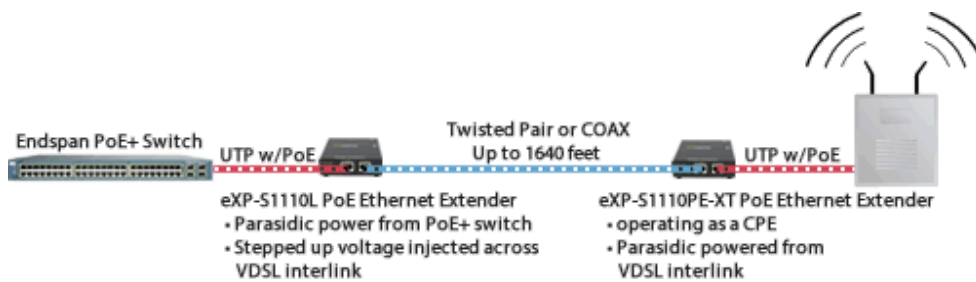
Technical Note about taking advantage of the power capabilities of Ethernet Extenders when deploying PoE Devices.

Powered Device (PD) Reset Feature



“Reset” the remote PoE device without a truck roll.

PoE Ethernet Extenders power Wireless Access Points (WAPs)



Sonic Automotive use Perle PoE Ethernet Extenders to transmit data and power Wireless Access Points in car dealerships nationally.

PoE VoIP phone communication using cat3 cabling over 2km

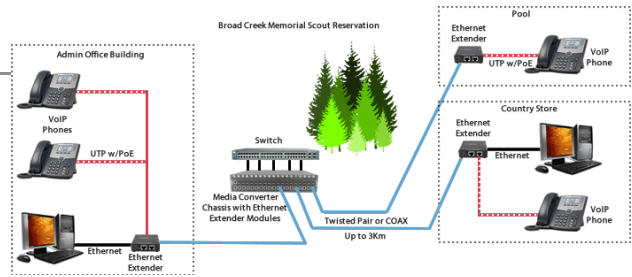
PoE Ethernet Extenders enable seamless VoIP telephone communication at remote Boy Scouts summer campground buildings.

Ethernet Extenders penetrate WiFi proof elevator cabs at Healthcare facility.

St. Joseph’s Healthcare provides Wifi access inside elevators with Perle Ethernet Extenders.

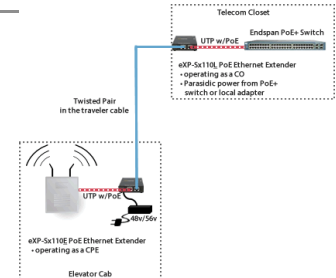
Do I need an Ethernet Extender or a Media Converter?

Perle discusses the differences between Ethernet Extenders and Fiber Media Converters to help you choose which technology is ideal for your environment.



Coax to Ethernet Extenders

Ethernet over Coax Extenders transmit data beyond 500m (1640ft) up to 3km



The quality of PoE Ethernet Extender that you choose will affect the uptime of your network. Choose quality products. Choose Perle.

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