

# Power-over-Ethernet (PoE) Media Converters

 [perle.com/products/media-converters/poe-media-converters.shtml](http://perle.com/products/media-converters/poe-media-converters.shtml)

## Link Fiber to Copper & supply PoE, PoE+, or Hi-PoE

**PoE Media Converters** transparently link fiber to copper while providing **up to 100W** Power over Ethernet (PoE) to Powered Devices (PDs) such as **IP cameras, VoIP phones and wireless access points**. Classified as Power Sourcing Equipment (PSE), **Perle PoE Media Converters** are available with one or two RJ45 Ethernet ports that support the IEEE 802.3af PoE (15.4W of power), IEEE 802.3at PoE+ (30W of power), and IEEE 802.3bt Hi-PoE (100W of power) standards. [Learn more about PoE](#)

- **Fiber to copper Ethernet converter and PoE injector all in one device**
- Provide 4 to 100 Watts of PoE power
- IEEE 802.3af, IEEE802.3at, and IEEE802.3bt compliant
- Support for all PoE PDs: Class 1 to 8 & Type 1, 2, 3, 4
- Support for Single-signature or Dual-signature PDs
- Extend network distances up to 160km [100 miles]
- Advanced features & functionality for efficient troubleshooting & less on-site maintenance
- -40°F to +167°F (-40°C to +75°C) operating temperatures

## Perle PoE Media Converters

### **S-1110HP-SFP**

Supply Hi-PoE (IEEE 802.3bt) up to 100W

- 1 or 2 RJ45 10/100/1000 PoE PSE ports
- 1 or 2 SFP 100/1000 Fiber slots
- Extend network distances using SFP's
- 0°C to +50°C Operating Temperature

### **S-1110HP**

Supply Hi-PoE (IEEE 802.3bt) up to 100W

- 1 or 2 RJ45 10/100/1000 PoE PSE ports
- 1 Gigabit Fiber port with Dual Fiber SC/ST or Single Fiber SC Connectors
- Extend network distances up to 160km [100mi]
- 0°C to +50°C Operating Temperature

### **S-1110HP-SFP-XT**

Supply Hi-PoE (IEEE 802.3bt) up to 100W

- 1 or 2 RJ45 10/100/1000 PoE PSE ports



- 1 or 2 SFP 100/1000 Fiber slots
- Extend network distances using SFP's
- -40°C to +75°C Operating Temperature

### **S-1110HP-XT**

Supply Hi-PoE (IEEE 802.3bt) up to 100W

- 1 or 2 RJ45 10/100/1000 PoE PSE ports
- 1 Gigabit Fiber port with Dual Fiber SC/ST or Single Fiber SC Connectors
- Extend network distances up to 10km [6.2mi]
- -40°C to +75°C Operating Temperature



### **S-1110P**

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

- 1 or 2 RJ45 10/100/1000 PoE PSE ports
- 1 or 2 x 100/1000 Fiber Slots
- SFP, Dual Fiber SC/ST or Single Fiber SC Connectors
- Extend network distances up to 160km [100mi]
- 0°C to +50°C Operating Temperature



### **S-1110P-XT**

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

- 1 x RJ45 10/100/1000 PoE PSE port
- 1 x 100/1000 Fiber port
- SFP, Dual Fiber SC/ST, or Single Fiber SC connectors
- Extend network distances up to 10km [6.2mi]
- -40°C to +75°C Operating Temperature



### **S-110P**

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

- 1 x RJ45 10/100 PoE PSE port
- 1 x 100Mbps Fiber port
- SFP, Dual Fiber SC/ST, or Single Fiber SC/ST connectors
- Extend network distances up to 120km [75mi]
- 0°C to +50°C Operating Temperature



### **S-110P-XT**

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

- 1 x RJ45 10/100 PoE PSE port
- 1 x 100Mbps Fiber port
- SFP, Dual Fiber SC/ST or Single Fiber SC/ST connectors
- Extend network distances up to 20km [12.4mi]
- -40°C to +75°C Operating Temperature



## **IDS PoE+ Switches**

### Need more PoE ports?

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



## Why Choose a Perle PoE Media Converter?

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### Robust PoE Media Converter

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Perle only uses **high-end components** from leading chip manufacturers to ensure product reliability. Perle's advanced implementation of Link Pass-Through includes an onboard processor that continuously monitors the status of the links and sends a notification if the fiber connection is broken or disconnected.



### Cisco Compatible PoE Media Converter

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Perle Media Converters are compatible with Cisco switches and routers. As a key component in the reliability and stability of your network, you need dependable Media Converters with seamless interoperability.



### Reliable PoE Media Converter

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Most Media Converter 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.



### Secure PoE Media Converter

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Perle Managed Media Converters support all **AAA security services** (TACACS+, RADIUS, LDAP, Kerberos, NIS and RSA) used in corporate networks, as well as SSH/SSL, SNMPv3, Telnet, and HTTPS **secure management sessions**. And, PerleVIEW Central Management Software simplifies the configuration, administration, monitoring and troubleshooting



### Technical Support

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We have sales and technical support staff around the globe to support you. If you need help choosing the best Media Converter for your application, we provide technical consultations by phone or email. And, even though Perle Fiber Converters are extremely easy to install and configure, 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 Media Converter Applications

### Choosing the right Power Sourcing Equipment

As devices that require power (PDs) are upgraded, it is important to ensure the Power Source Equipment (PSE) that you choose will not need to be replaced. Here are some things to consider...

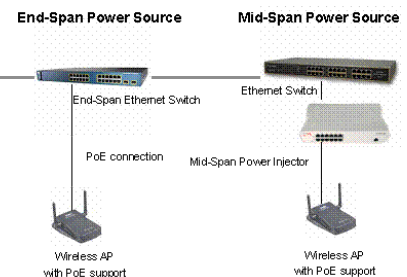


### A Background on Power Over Ethernet

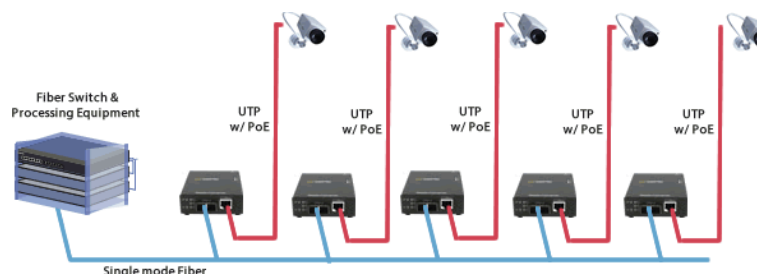
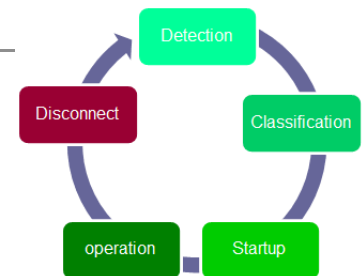
Learn about the evolution of IEEE 802.3bt, 802.3at, and 802.3af standards as well as understanding the differences between PSEs, Single-signature PDs, and Dual-signature PDs.

### 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.



### VER use Perle PoE+ Media Converters for Coldplay Tour



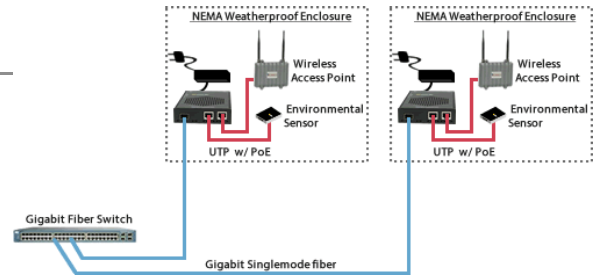
PoE+ Media Converters integrate Panasonic Cameras into Single mode Fiber Networks for Coldplay Tour

### York University use PoE Media Converters

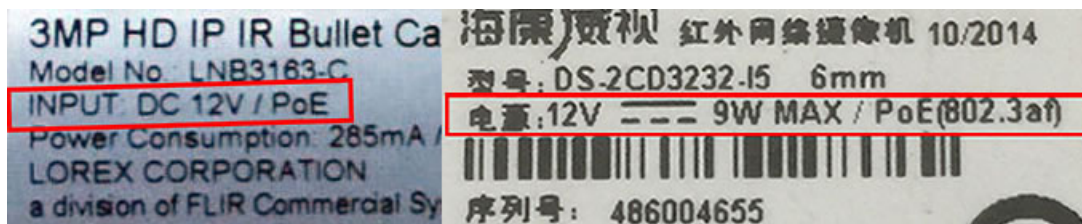
York University use Perle Media Converters in Field Robotics Research Network to provide fiber to copper conversion and POE+ to WLAN Access Points inside NEMA Weatherproof Enclosures.

## Cambridge University use PoE+ Media Converters

Wireless access points installed in the top of lamp posts and powered by PoE Media Converters enable free WiFi access in open spaces for students and the public.



## Learn what 12V / PoE Means



Do you have a device that specifies "INPUT 12V / PoE", like in the image above? 12V / PoE means that device can be powered by a 12 VDC wall adapter OR a PoE Ethernet port. If you don't have an electrical wall outlet nearby, you need a 48V PoE Switch, that is compliant to the IEEE 802.3bt/af/at standard, to provide power to these devices.

**The quality of PoE Media Converter that you choose will affect the uptime of your network. Choose quality products. Choose Perle.**

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