

# Industrial Media Converters

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

## Link Copper and Fiber Networks in Industrial Environments

**Industrial Media Converters** are used to easily connect fiber cabling to different types of devices, cables or networks in locations that are exposed to harsh industrial operating conditions and high or low temperatures. While linking fiber and copper together is the most common application, Industrial Media Converters also enable users to link Single Mode to Multimode or extend the data transmission distance of a Multimode network. They are the perfect solution to convert and extend various types of data signals in industrial environments such as **manufacturing, wastewater treatment, outdoor traffic control, security & surveillance, building, and factory automation.**

- IEC 61850-3, IEEE1613, and EN 61000-4-16 substation certified
- ATEX Class 1 Zone 2 and ANSI/ISA 12.12.01 Class 1 Division 2 hazardous location certified
- Operate in -40°C to 75°C ( -40°F to 167°F )
- Fixed fiber ports or empty slots for Cisco and other industry standard SFPs
- Advanced features: Link Pass-Through, Fiber Fault Alert, Auto-MDIX and Loopback
- PoE Media Converters provide up to 100 Watts PoE PSE power injection over UTP Ethernet

To choose the best **Perle Industrial Media Converter** for your project, select the appropriate network topology tab.

### SR-1000-SFP-XT Gigabit Media Converter

- 1G Copper to 1G Fiber
- MSA compliant Fiber SFP Slot
- -40C to +75C operating temperature
- DIN Rail Enclosure with Triple Power Input



### SR-1000-XT Gigabit Media Converters

- 1G Copper to 1G Fiber
- Dual fiber ST/SC or Single fiber SC Connectors
- -40C to +75C operating temperature
- DIN Rail Enclosure with Triple Power Input



### SRS-1110-SFP DIN Rail Media Converter

- 10/100/1000 Copper to 100/1000 Fiber
- MSA compliant Fiber SFP Slot
- IEC 61850-3 & IEEE 1613 certified for substations
- Class 1 Division 2 certified for hazardous locations
- -40°C to +70°C operating temperature
- DIN Rail Enclosure with Triple Power Input



### SRS-1110-G DIN Rail Media Converters

- 10/100/1000 Copper to 1G Fiber
- Dual fiber ST/SC or Single fiber SC Connectors
- IEC 61850-3 & IEEE 1613 certified for substations
- Class 1 Division 2 certified for hazardous locations
- -40°C to +70°C operating temperature



- DIN Rail Enclosure with Triple Power Input

#### SRS-1110-F DIN Rail Media Converters

- 10/100/1000 Copper to 100Mbps Fiber
- Dual fiber ST/SC or Single fiber SC Connectors
- IEC 61850-3 & IEEE 1613 certified for substations
- Class 1 Division 2 certified for hazardous locations
- -40°C to +70°C operating temperature
- DIN Rail Enclosure with Triple Power Input



#### S-1110P-XT PoE Media Converters

- 10/100/1000 Copper to 1G Fiber
- SFP, Dual fiber ST/SC or Single fiber SC Connectors
- Supplies up to 30 Watts PoE PSE power
- -40°C to +75°C operating temperatures
- Metal desktop / wall-mount chassis



#### SR-1110-SFP-XT Media & Rate Converter

- 10/100/1000 Copper to 100/1000 Fiber
- MSA compliant Fiber SFP Slot
- -40°C to +75°C operating temperature
- DIN Rail Enclosure with Triple Power Input



#### S-1110-SFP-XT Media & Rate Converter

- 10/100/1000 Copper to 100/1000 Fiber
- MSA compliant Fiber SFP Slot
- -40°C to +75°C operating temperature
- Metal desktop / wall-mount chassis



#### SR-1110-XT Media & Rate Converters

- 10/100/1000 Copper to 1G Fiber
- Dual fiber ST/SC or Single fiber SC Connectors
- -40C to +75C operating temperature
- DIN Rail Enclosure with Triple Power Input



#### S-1110-XT Media & Rate Media Converters

- 10/100/1000 Copper to 1G Fiber
- Dual fiber ST/SC/LC or Single fiber SC Connectors
- -40°C to +75°C operating temperatures
- Metal desktop / wall-mount chassis



#### S-1110HP-SFP-XT Hi-PoE Media Converters

- 10/100/1000 Copper to 100/1000 Fiber
- 1 or 2 MSA compliant SFP slots
- Extend network distances up to 10km [6.2 miles]
- Supplies IEEE 802.3bt (100W) PSE power
- Dual or Single 10/100/1000Base-T PoE ports
- -40C to +75C Operating Temperature



#### S-1110HP-XT Hi-PoE Media Converters

- 10/100/1000 Copper to 1G Fiber
- Dual Fiber SC/ST or Single Fiber SC Connectors

- Extend network distances up to 10km [6.2 miles]
- Supplies IEEE 802.3bt (100W) PSE power
- Dual or Single 10/100/1000Base-T PoE ports
- -40C to +75C Operating Temperature



#### S-110-XT Media & Rate Converters

- 10/100 Copper to 100Mbps Fiber
- Dual fiber ST/SC/LC or Single fiber SC Connectors
- -40°C to +75°C operating temperatures
- Metal desktop / wall-mount chassis



#### S-110P-XT PoE Media Converters

- 10/100 Copper to 100Mbps Fiber
- SFP, Dual fiber ST/SC or Single fiber SC Connectors
- Supplies up to 30 Watts PoE PSE power
- -40C to +75C operating temperature
- Metal desktop / wall-mount chassis



#### SR-100-SFP-XT Media Converter

- 100Mbps Copper to 100Mbps Fiber
- MSA compliant Fiber SFP Slot
- -40°C to +75°C operating temperature
- DIN Rail Enclosure with Triple Power Input



#### SR-100-XT Media Converters

- 100Mbps Copper to 100Mbps Fiber
- Dual fiber ST/SC or Single fiber SC Connectors
- -40°C to +75°C operating temperatures
- DIN Rail Enclosure with Triple Power Input



#### S-4GPT-DSFP-XT Industrial Fiber Mode Converter

- Protocol and Rate Transparent Ethernet, Fibre Channel, ATM/SONET OC-X, SDH STM-X, FDDI, Video, etc...
- Two MSA compliant Fiber SFP Slots
- Convert Multimode, Single Mode, Dual Fiber and Single Fiber
- -40°C to +75°C Operating temperatures
- SFP to SFP Protocol Transparent Media Converter



## Why Choose a Perle Industrial Media Converter?

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### Perle Knows Industrial

We have been designing industrial hardware for over 40 years. Perle Media Converters are designed to operate in hazardous industrial locations. With certifications including ATEX Class 1 Zone 2 and ANSI/ISA 12.12.01 Class 1

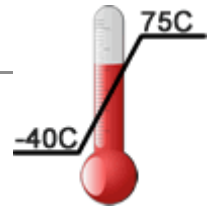


Division 2, you are ensured safe and reliable operation in locations where flammable gases, liquids or vapors are handled, processed or used. Additionally, Perle Industrial Converters meet IEC 61850-3 & IEEE 1613 electric power substation environmental standards.

## Industrial Temperature-Grade

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Many manufacturers claim -40°C to 75°C but 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 Media Converters has been designed and tested to handle operating temperatures between -40°C and 75°C.



## Reliable & Advanced

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Perle only uses **high-end components** from leading chip manufacturers to ensure product reliability. This enables us to proudly publish the **high MTBF rates** on the Hardware Specs for each product. Additionally, 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.



## Best-in-Class Warranty

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To deliver worry free operation and eliminate the cost associated with out of warranty repairs, Perle offers a Best in Class Lifetime Warranty as a standard feature across all Industrial Media Converters.



## 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 Industrial Media Converters are extremely easy to install and configure, post-sales support is easy to contact.



## Trust

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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.



