S-1110P-XT 10/100/1000 Industrial Temperature PoE **Media Converters**

perle.com/products/10-100-1000-poe-industrial-converters.shtml

PoE / PoE+ Ethernet to Fiber Converters

- 10/100/1000Base-T to 100/1000Base-X Fiber
- Supplies IEEE 802.3 PoE & PoE+ PSE power
- · Compatible with legacy pre-standard PoE devices
- Fix fiber ports or empty slot for Cisco and other industry standard SFPs
- · Advanced features: PD Reset, Smart Link Pass-Through, Fiber Fault Alert, Auto-MDIX and Loopback
- -40°F to +167°F (-40°C to +75°C) extended temperature support
- Terminal block power connector



The S-1110P-XT Industrial Temperature PoE Media Converters address the need for transparently connecting 10/100/1000 Ethernet equipment that operate in extreme temperatures to fiber while providing Power over Ethernet (PoE) to standards-based PoE and PoE+ compliant devices.

The S-1110P-XT PoE Media Converters will operate in industrial grade temperatures of -40°F to +167°F (-40°C to +75°C). Equipment found in traffic management, oil and gas pipelines, weather tracking, industrial and outdoor applications must function in temperatures that cannot be supported by a commercial based media converter. Boasting this extended temperature feature along with a rugged steel casing, the S-1110P-XT Media Converter provides an economical path to extend the distance between two industrial devices subjected to harsh environments and severe temperatures such as security cameras, wireless access points, alarms, traffic controllers, sensors and tracking devices.

Perle PoE Media Converters are classified as Power Sourcing Equipment (PSE). While using standard UTP cables that carry Ethernet data, Perle PoE media converters can also provide power to Powered Devices (PDs) that support the IEEE 802.3af PoE standard (15.4W of power) or the IEEE 802.3at PoE+ standard (30W of power). Learn more about PoE.

Perle 10/100/1000 PoE Ethernet to Fiber Converters provide an economical path to extend the distance of an existing network with fiber cabling. At the same time they function as PoE injectors to power devices like IP cameras and Wi-Fi devices over copper UTP cabling.

Network Administrators can "see-everything" with Perle's advanced features such as Auto-Negotiation, Auto-MDIX, Link Pass-Through, Fiber Fault Alert, and Loopback. This allows for more efficient troubleshooting and less on-site maintenance. These cost and time saving features, along with a lifetime warranty and free worldwide technical support, make Perle's S-1110P-XT Industrial Temperature Gigabit PoE Media Converters the smart choice for IT professionals.

S-1110P-XT Industrial Temperature 10/100/1000 PoE Media Converter Features

Power Over Ethernet (PSE)

Performs the Power Sourcing Equipment (PSE) function for IEEE 802.3af (15.4 watts PoE) and IEEE 802.3at (up to 30 watts PoE+) compliant devices.

Available in PoE and PoE+ models

PoE+ models support both Type 1 (PoE) and Type 2 (PoE+) PD gear

Advanced

Enable/Disable PSE power by UTP port

Power Management

- PD signature detectionOver-Current Protection
- PD power classification detection (Class 0,1,2,3,4)

PD Power Reset

Ideal for remotely resetting equipment, this configurable function performs a momentary power reset to the attached Powered Device (PD). When enabled, the media converter will, upon loss of fiber RX, turn off PSE output power supplied to the PD device for 2 seconds then turn the power back on and leave it on until such time that another fiber RX link is lost (after it was re-established). When disabled, a loss of fiber RX has no effect on PSE power to the PD device(s).

Powered Device Support

Support is included for a broad range of PD (Powered Devices)

- IEEE Standard PoE/PoE+ (Alternative A and B)
- Legacy High Capacitance PDs
- · Legacy Wireless Access Points

Power Strain Relief strap

Included with all models, a strain relief strap is provided to ensure a solid and secure power connection to the media converter. Ideal for areas that may be exposed to vibration.

SFP Speed Sensing

Automatically detects whether a Gigabit or Fast Ethernet fiber SFP has been inserted and adjusts accordingly.

Auto-
Negotiation
(802.3u)

The media converter supports auto negotiation. The 1000Base-X fiber interface negotiates according to 802.3 clause 37. The 10/100/1000Base-T negotiates according to 802.3 clause 28 and 40. The 1000Base-X will link up with its partner after the highest common denominator (HCD) is reached and the copper has linked up with its partner. The 1000Base-X will continue to cycle through negotiation transmitting a remote fault of offline (provided this is enabled through the switch setting) until the copper is linked up and the HCDs match.

The media converter supports auto-negotiation of full duplex, half duplex, remote fault, full duplex pause, asymmetric pause and Auto MDI-X.

Auto-MDIX

Auto-MDIX (automatic medium-dependant interface crossover) detects the signaling on the copper Ethernet interface to determine the type of cable connected (straight-through or crossover) and automatically configures the connection when enabled. The media converter can also correct for wires swapped within a pair.

The media converter will adjust for up to 120ns of delay skew between the 1000Base-T pairs.

Smart Link Pass-Through

When the Link Mode switch is placed into Smart Link Pass-Through mode, the copper Ethernet port will reflect the state of the 1000Base-X media converter port. This feature can be used whether fiber auto-negotiation is enabled or disabled.

Fiber Fault Alert

With Fiber Fault Alert the state of the 1000Base-X receiver is passed to the 1000Base-X transmitter. This provides fault notification to the partner device attached to the 1000Base-X interface of the media converter. If the 1000Base-X transmitter is off as a result of this fault it will be turned on periodically to allow the condition to clear should the partner device on the 1000Base-X be using a similar technique. This eliminates the possibility of lockouts that occur with some media converters. Applies only when fiber auto-negotiation is disabled.

Pause (IEEE 802.3xy)

Pause signaling is an IEEE feature that temporarily suspends data transmission between two devices in the event that one of the devices becomes overwhelmed. The media converter supports pause negotiation on the 10/100/1000Base-T connection and 1000Base-X fiber connection.

- · With Autoneg on the device will advertise sym and asymmetric pause
- With Autoneg off Pause receive and send will be disabled

Duplex	Full and half duplex operation supported.
Jumbo Packets	Transparent to jumbo packets up to 10KB.
VLAN	Transparent to VLAN tagged packets.

Remote C Loopback	apable of performing a loopback on the 1000Base-X fiber interface.
Power	
Input Supply Voltage	PoE models: 46 - 57 vDC PoE+ models: 52 - 57 vDC
Power Consumption	3.5 Watts
Power Over Ethernet (PSE)	PoE models: maximum to 15.4 watts PoE+ models: up to 30 watts
PoE Options	Alternative A (power on pins 1,2 and 3,6) Alternative B (power on pins 4,5 and 7,8) Legacy PoE (IE wireless access points) - (reverse polarity on pins 4,5 and 7,8) Legacy large capacitor detect (pins 4,5 and 7,8)
Power Connecto	or 2-Pin pluggable terminal block
Indicators	
Power (PWR)	This green LED is turned on when power is applied to the media converter. Otherwise it is off. The LED will blink slowly when either fiber port is in Loopback test mode. The LED will blink quickly if there is a hardware failure where the reason code can be identified through a combination of FDF,LKF, FDC and PSE indicator LEDs
Fiber link on / Receive activity (LKF 1/2)	This green LED is operational only when power is applied. The LED will blink along with transmit/receive data on the fiber port. If a loss of link on the copper port results in a Link Passthrough condition to the fiber port, this LED will blink at a rate of once every 2 seconds until the condition is cleared.
Copper link on / Receive activity (LKC 1/2)	This green LED is operational only when power is applied. The LED will blink along with transmit/receive data on the 10/100/1000 UTP port If a loss of link on the copper port results in a Link Passthrough condition to the fiber port, this LED will blink at a rate of once every 2 seconds until the condition is cleared.

Fiber Duplex (FDF 1/2)

This green LED is operational only when power is applied. The LED is on when the 10/100/1000Base-X link is operational in full duplex mode. The LED is off when in half duplex. If the Auto-Neg switch is turned off, this LED will always be on

Copper Duplex (FDC 1/2)

This green LED is operational only when power is applied. The LED is on when the 10/100/1000Base-T link is operational in full duplex mode. The LED is off when in half duplex

100/1000

This multi-color LED is operational only when power is applied. The LED is green when the speed of the copper ethernet port is running at 1000 Mbps. The LED is yellow when the speed of the copper Ethernet port is running at 100 Mbps. The LED is off when in 10 Mbps.

PSE Status (PSE 1/2)

This LED will signify the status of the PSE function. Using multi-color and blinking the unit will show the following status for the PSE;

GREEN — Solid: The PSE has successfully detected a compliant PD and is applying power over the UTP (for legacy pin out simply show active power when applied)

YELLOW — Solid: The PSE is not active. This means the PSE has been configured to provide power, but the PD is:

- · Not connected
- · Has not detected a compliant PD and is not applying power
- PSE has turned off power for Reset function

OFF — PSE function switch disabled

RED — Blinking: Error Conditions

- Capacitance too High 1 blink
- Resistance too Low or short circuit 2 blinks
- Resistance too high or open circuit 3 blinks

Switches - accessible through a side opening in the chassis

Auto-Negotiation (802.3u)

Enabled (Default) - The media converter uses 802.3u Auto-negotiation on the 10/100/1000Base-T interface. It is set to advertise full duplex, half duplex, pause and remote fault capabilities.

Disabled - The media converter sets the port according to the position of the speed and duplex switches.

Link Mode

Link Mode provides a transparency to the state of the copper link allowing for simplified trouble shooting from the devices connected to the media converter. Normal (Default — Up)

With Fiber Auto Negotiation enabled when the copper link goes down the 1000Base-X link is brought down. The 1000Base-X link will advertise Remote Fault (Link Fault).

With Fiber Auto Negotiation disabled the state of the copper link has no effect on the 1000Base-X link.

Smart Link Pass Through (Down)

With Fiber Auto Negotiation enabled the behavior is as follows. When the copper link goes down the 1000Base-X link is brought down. The 1000Base-X link will advertise Remote Fault (Link Fault). When Remote Fault (Link Fault) is received on the 1000Base-X interface the copper transmitter will be turned off. When the copper receiver is off the 1000Base-X transmitter will be turned off. When the 1000Base-X receiver goes off the copper transmitter will be turned off.

With Fiber Auto-Negotiation disabled the behavior is as follows. When the copper receiver is off the 1000Base-X transmitter will be turned off. When the 1000Base-X receiver goes off the copper transmitter will be turned off.

Fiber Fault Alert

The Fiber Fault Alert switch has meaning when Auto-Negotiation is disabled Enabled (Default - Up)

When the 1000Base-X receiver is off the 1000Base-X transmitter is turned off. Periodically the 1000Base-X receiver will be turned on for a short period to allow the condition to clear if the 1000Base-X link partner is using a similar feature.

Disabled (Down)

Loopback

The media converter can perform a loopback on the 1000Base-X fiber interface. *Disabled (Default - Up)*

Enabled - The 1000Base-X receiver is looped to the 1000Base-X transmitter. The copper transmitter is taken off the interface.

Speed Copper

100 (Default)

10

Duplex Copper

Full (Default)

Half

Fiber Negotiation

Up: The Media Converter will negotiate Ethernet parameters on the fiber connection. This will ensure that the most optimal connection parameters will be in effect. If connecting to another Perle Media Converter, this parameter should be set to Auto. The Media Converter Module will advertise 1000Mbps, Full and Half Duplex, no Pause.

Down: The Media Converter Module's fiber will be fixed to 1000Mbps, Full Duplex.

Auto-MDIX (Internal Strap)

If Auto-Negotiation (802.3u) is enabled, the media converter determines the current cable pinout to use on the copper interface. If Auto-Negotiation (802.3u) is disabled the Media converter will use the RX Energy method on the copper interface to set the port MDI or MDIX whichever is appropriate.

Enabled (Default) - Either a straight-through or crossover type cable can be used to connect the media converter to the device on the other end of the cable.

Disabled - If the partner device on the other end of the cable does not have the Auto-MDIX feature a specific cable, either a straight-through or crossover will be required to ensure that the media converter's transmitter and the partner devices transmitter are connected to the others receiver. The Media converter's 100Base-TX port is configured as MDI-X with this switch setting.

PSE Power

Settable for each UTP port available.

When enabled (UP), the media converter will perform a Power Sourcing Equipment (PSE) function as per IEEE802.3af or 802.3at standards (relevant model).

Default is "enabled"

PD Power Reset

This is a technique to perform a power reset on a PD device(s) attached. When enabled (down), the media converter will upon loss of link on any fiber port, turn off PSE output power to the PD device(s) for 2 seconds then turn the power back on. The power remains on until any fiber link transitions from up to down again.

With Passthrough enabled (Link Mode enabled and Fiber Auto-Negotiation enabled), a loss of link on the fiber resulting from a loss of link on the copper, a PD Power Reset till still occur.

When PD Power Reset disabled, loss of fiber link has no effect on PSE power to the PD device(s).

PoE Power Options (Internal Straps)

Set to Alternative A (default): Pins 3,6 Neg, Pins 1,2 Pos

Set to Alternative B: Pins 7,8 Neg, Pins 4,5 Pos

Set to Legacy Pre-Standard: Pins 7,8 Pos, Pins 4,5 Neg

Connectors	
10/100/1000Base- T	RJ45 connector 2 pair CAT5, EIA/TIA 568A/B or better cable for 10/100. 4 pair CAT5 UTP cable for Gigabit.
Magnetic solation	1.5kv
ixed Fiber	Dual multimode or single mode (Duplex) fiber - SC, ST Single strand fiber (Simplex) - SC
	LC - obtained by inserting an SFP (LC) in an SFP slot model
mall Form actor Pluggable FP) slot	SFP slot models: Empty slot for 1000Base-X or 100Base-X SFP modules supplied by Perle, Cisco or other manufacturers of MSA compliant SFPs. Hot insertion and removable (hot swappable).
tering	
ering	1024 MAC Addresses
ame Specificatio	ons
ffer	1000 Kbits frame buffer memory
e	Maximum frame size of 10,240 bytes Gigabit Maximum frame size of 2048 bytes Fast Ethernet
vironmental Spe	ecifications
erating nperature	-40 C to 75 C (-40 F to 167 F)
orage mperature	-40 C to 85 C (-40 F to 185 F)
erating midity	5% to 90% non-condensing
orage Humidity	5% to 95% non-condensing

Heat Output (BTU/HR)	20.5
MTBF (Hours)	370,535 (models with fixed fiber ports)
. ,	432,168 (models with empty SFP slot)
	Calculation model based on MIL-HDBK-217-FN2 @ 30 °C
Chassis	Metal with an IP20 ingress protection rating
Mounting	
Din Rail Kit	Optional
Rack Mount Kit	Optional
Product Weight ar	nd Dimensions
Weight	0.45 Kg, 1.0 lbs (no power adaptor)
Dimensions	150 x 95 x 26 mm, 5.9 x 3.7 x 1.0 inches
Packaging	
Shipping Weight	0.52 kg, 1.1 lbs
Shipping Dimensions	150 x 210 x 40 mm, 5.9 x 11 x 2.8 inches
Regulatory Appro	vals
	FCC Part 15 Class A, EN55022 Class A
	CISPR 22 Class A
	CISPR 32:2015/EN 55032:2015 (Class A)
	CISPR 24:2010/EN 55024:2010
Emissions	EN61000-3-2
Immunity	EN55024
	UL/EN/IEC 62368-1
	CAN/CSA C22.2 No. 62368-1
	UL 60950-1
	IEC 60950-1(ed 2); am1, am2
	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
Electrical Safety	CE

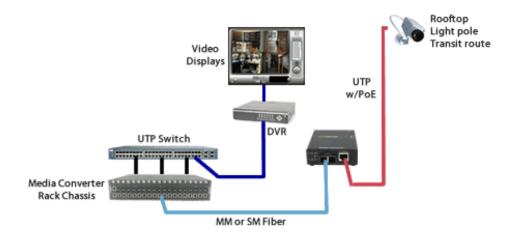
Environmental	Reach, RoHS and WEEE Compliant
	ECCN: 5A991
	HTSUS Number: 8517.62.0020
Other	Perle Limited Lifetime Warranty

Fast Ethernet to IP Cameras

Connect 10/100/1000 IP Cameras to Fast Ethernet Backbone

Extend the reach to IP cameras using industrial fiber PoE media converters. Security cameras are typically installed in remote locations where extremely high or low temperatures are a concern -- ceilings, rooftops, light poles, along fences, pipelines and transit routes. The cost of bringing electrical power to each camera located in these inaccessible areas is eliminated by powering the equipment through the UTP cable using a PoE media converter. For cameras with Pan-Tilt-Zoom (PTZ) that may require higher power, PoE+ models that can supply up to 30 watts of power are also available. PoE+ may also be required for cameras used in cold environments that feature de-icers and blowers.

Fiber is run from an existing data closet to an area with access to power. A PoE Media Converter can be powered by either 48vDC or standard 100 to 240 AC power. The media converter is attached to the power supply and the fiber cable. Copper (UTP or STP cable) Ethernet can be extended another 100 meters to the IP camera. The PoE Media Converter is converting the data from fiber to copper, adding power and transmitting it to the security camera.



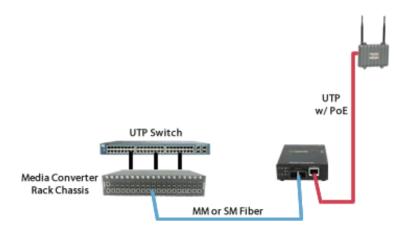
Fast Ethernet Fiber to Wireless Access Points

Connect 10/100/1000 Wireless Access Points to Fast Ethernet Backbone

Extend the reach to wireless access points (AP) using fiber PoE media converters. When a company deploys a wireless network in their office or large warehouse, APs need to be set up throughout the facility to ensure complete coverage for reliability. The network manager will likely need to extend further than the 100 meters allowed by copper cable to reach many of the APs.

For APs that are in the ceiling or other inaccessible areas, PoE media converters can also provide standard PoE power including pre-standard power for those access points that were deployed prior to ratification IEEE 802.3af. For wireless access points as those containing dual radios requiring more than 15.4 watts of power, PoE+ models delivering up to 30 watts are also available.

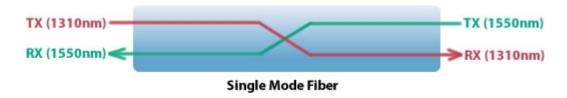
When AP's are used in industrial environments where extremely high or low temperatures are a concern, fiber is run from an existing data closet to an area with access to power. A PoE Media Converter can be powered by either 48vDC or standard 100 to 240 AC power. The media converter is attached to the power supply and the fiber cable. Copper (UTP or STP cable) Ethernet can be extended another 100 meters to the Wireless Access Point. The PoE Media Converter is converting the data from fiber to copper, adding power and transmitting it to the AP.



Single Mode / Single Fiber

Connect copper ports over a single fiber strand (also referred to as "Bi-Directional" BiDi)

When Single Strand fiber is used, a pair of Single Fiber Media Converters is needed for the copper to fiber conversion. Perle Single Fiber Media Converters are also referred to as "Up/Down" models. For example the S-1110P-S1SC10**U**-XT ("Up") and S-1110P-S1SC10**D**-XT ("Down"), shown below, must be used in pairs. An "**U**p" must be matched with a "**D**own" peer to deal with transmit and receive frequencies separately.



S-1110P-S1SC10U-XTS-1110P-S1SC10D-XT

The majority of installations for single mode fiber media converters are of the "dual connector" or "dual fiber" type where one fiber connection is used for transmit, the other for receive. These are physically "crossed" to match up the Transmit/Receive links.

However, to reduce costs, or where there are limits on available fiber, WDM technology may be utilized. WDM uses separate transmit and receive frequencies to communicate on a single fiber strand. WDM technology relies on the fact that optical fibers can carry many wavelengths of light simultaneously without interaction between each wavelength. Thus, a single fiber can carry many separate wavelength signals or channels simultaneously.

So remember, if Single Strand fiber is used, you will need an "**Up**" Media Converter on one side and a "**Down**" Media Converter on the other for copper to fiber conversion.

Select a Model to obtain a Part Number - S-1110P-XT Industrial Temperature PoE Media Converter

			Transmit (dBm)		Receive (dBm)		Power			Core	Modal	
Model	Fiber Port Connector	Туре	Min	Max	Min	Max	Budget (dBm)	Wavelength (nm)	Fiber Type	Size (um)	Bandwidth (MHz*Km)	Operating Distance
S-1110P-SFP-XT	1 x SFP / LC	1000Base-X /100Base-X	-	-	-	-	-	-	MMF /SMF	-	-	-
S-1110P-M2SC05-XT	Dual SC	1000Base-SX	-9.5	-4.0	-17	-3.0	7.5	850	MMF	62.5	160	220 m (722 ft)
										62.5	200	275 m (902 ft)
										50	400	500 m (1,640 ft)
										50	500	550 m (1,804 ft)
										50	2000	1000 m (3281 ft)
S-1110P-M2ST05-XT	Dual ST	1000Base-SX	-9.5	-4.0	-17	-3.0	7.5	850	MMF	62.5	160	220 m (722 ft)
3-1110F-WIZO103-X1	Duai 31	1000Dase-3A	-9.5	4.0	-17	-5.0	7.0	000	IVIIVII		100	

										62.5	200	275 m (902 ft)
										50	400	500 m (1,640 ft)
										50	500	550 m (1,804 ft)
										50	2000	1000 m (3281 ft)
S-1110P-S2SC10-XT	Dual SC	1000Base-LX/LH	-9.5	-3.0	-20	-3.0	10.5	1310	MMF*	62.5	500	550 m (1,804 ft)
										50	400	550 m (1,804 ft)
										50	400	550 m (1,804 ft)
									SMF	**	-	10 km (6.2 mi)
S-1110P-S2ST10-XT	Dual ST	1000Base-LX/LH	-9.5	-3.0	-20	-3.0	10.5	1310	MMF*	62.5	500	550 m (1,804 ft)
										50	400	550 m (1,804 ft)
										50	400	550 m (1,804 ft)
									SMF	**	-	10 km (6.2 mi)

Single Fiber Models Recommended use in pairs

			Transmit Receive (dBm) (dBm)		Power			Core	Modal			
Model	Connector	Туре	Min	Max	Min	Max	Budget (dBm)	Wavelength (nm)	Fiber Type	Size (um)	Bandwidth (MHz* Km)	Operating Distance
S-1110P-S1SC10U-XT	Single SC	1000Base-BX-U	-9.0	-3.0	-20	-3.0	11	1310 / 1490	SMF	**	-	10 km (6.2 mi)
S-1110P-S1SC10D-XT	Single SC	1000Base-BX-D	-9.0	-3.0	-20	-3.0	11	1490 / 1310	SMF	**	-	10 km (6.2 mi)

The minimum fiber cable distance for all converters listed is 2 meters.

*A mode-conditioning adapter as specified by the IEEE standard, is required regardless of the span length. Note how the mode conditioning adapter for 62.5-um fibers has a different specification from the mode-conditioning adapter for 50-um fibers.

**ITU-T G.652 SMF as specified by the IEEE 802.3z standard.

Media Converter Accessories

4 DIN Rail Mount Bkt DIN Rail Mounting Kit

MCSM Standalone media converter wall mount bracket

Select a Model to obtain a Part Number - S-1110P-XT Industrial Temperature PoE+ Media Converter+

	Fiber Port Connector		Trans (dBm)			ve	Power			Core							
Model		Туре	Min	Max	Min	Max	Budget (dBm)	Wavelength (nm)	Fiber Type	Size (um)	Bandwidth (MHz*Km)	Operating Distance					
S-1110PP-SFP-XT	1 x SFP/LC	1000Base-X /100Base-X	-	-	-	-	-	-	MMF /SMF	-	-	-					
S-1110PP-M2SC05-XT	Dual SC	1000Base-SX	-9.5	-4.0	-17	-3.0	7.5	850	MMF	62.5	160	220 m (722 ft)					
										62.5	200	275 m (902 ft)					
										50	400	500 m (1,640 ft)					
										50	500	550 m (1,804 ft)					
										50	2000	1000 m (3281 ft)					
S-1110PP-M2ST05-XT	Dual ST	1000Base-SX	-9.5	-4.0	-17	-3.0	7.5	850	MMF	62.5 160	160	220 m (722 ft)					
															62.5	200	275 m (902 ft)
										50	400	500 m (1,640 ft)					
											50	500	550 m (1,804 ft)				
										50	2000	1000 m (3281 ft)					
S-1110PP-S2SC10-XT	Dual SC	1000Base-LX/LH	-9.5	-3.0	-20	-3.0	10.5	1310	MMF*	62.5	500	1000 m (3281 ft)					
										50	400	550 m (1,804 ft)					
										50	400	550 m (1,804 ft)					
									SMF	**	-	10 km (6.2 mi)					
S-1110PP-S2ST10-XT	Dual ST	1000Base-LX/LH	-9.5	-3.0	-20	-3.0	10.5	1310	MMF*	62.5	500	550 m (1,804 ft)					
										50	400	550 m (1,804 ft)					
										50	400	550 m (1,804 ft)					
									SMF	**	-	10 km (6.2 mi)					

Single Fiber Models Recommended use in pairs

			Transmit (dBm)				Power			Core	Modal	
Model	Connector	Туре	Min	Max	Min	Max	Budget (dBm)	Wavelength (nm)	Fiber Type	Size (um)	Bandwidth (MHz* Km)	Operating Distance

S-1110PP-S1SC10U-XT	Single SC	1000Base-BX-U	-9.0	-3.0	-20	-3.0	11	1310 / 1490	SMF	**	-	10 km (6.2 mi)
S-1110PP-S1SC10D-XT	Single SC	1000Base-BX-D	-9.0	-3.0	-20	-3.0	11	1490 / 1310	SMF	**	-	10 km (6.2 mi)

The minimum fiber cable distance for all converters listed is 2 meters.

*A mode-conditioning adapter as specified by the IEEE standard, is required regardless of the span length. Note how the mode conditioning adapter for 62.5-um fibers has a different specification from the mode-conditioning adapter for 50-um fibers.

Media Converter Accessories

4 DIN Rail Mount Bkt	DIN Rail Mounting Kit
MCSM	Standalone media converter wall mount bracket

Product Image	Description	Power Cord	Product Number
	S-1110P-M2SC05-XT - 10/100/1000 Gigabit Ethernet Stand-Alone Industrial Temperature Media Rate Converter with PoE Power Sourcing. 10/100/1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-SX 850nm multimode (SC) [550 m/1804 ft.]. Extended Temperature, terminal block power connector for external power source.	None	05090500
	S-1110P-M2ST05-XT - 10/100/1000 Gigabit Ethernet Stand-Alone Industrial Temperature Media Rate Converter with PoE Power Sourcing. 10/100/1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-SX 850nm multimode (ST) [550 m/1804 ft.]. Extended Temperature, terminal block power connector for external power source.	None	05090510
	S-1110P-S2SC10-XT - 10/100/1000 Gigabit Ethernet Stand-Alone Industrial Temperature Media Rate Converter with PoE Power Sourcing. 10/100/1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-LX/LH 1310 nm single mode (SC) [10 km/6.2 miles] or multimode (SC) [550 m/1804 ft.] using a mode conditioning adapter. Extended Temperature, terminal block power connector for external power source.	None	05090520

^{**}ITU-T G.652 SMF as specified by the IEEE 802.3z standard.

Product Image	Description	Power Cord	Product Number
	S-1110P-S2ST10-XT - 10/100/1000 Gigabit Ethernet Stand-Alone Industrial Temperature Media Rate Converter with PoE Power Sourcing. 10/100/1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-LX/LH 1310 nm single mode (ST) [10 km/6.2 miles]. Extended Temperature, terminal block power connector for external power source.	None	05090530
	S-1110P-S1SC10U-XT - 10/100/1000 Gigabit Ethernet Stand-Alone Industrial Temperature Media Rate Converter with PoE Power Sourcing. 10/100/1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-BX 1310nm TX / 1490nm RX single strand fiber, single mode (SC) [10 km/6.2 miles]. Extended Temperature, terminal block power connector for external power source.	None	05090540
	S-1110P-S1SC10D-XT - 10/100/1000 Gigabit Ethernet Stand-Alone Industrial Temperature Media Rate Converter with PoE Power Sourcing. 10/100/1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-BX 1490nm TX / 1310nm RX single strand fiber, single mode (SC) [10 km/6.2 miles]. Extended Temperature, terminal block power connector for external power source.	None	05090550
	S-1110PP-M2SC05-XT - 10/100/1000 Gigabit Ethernet Stand-Alone Industrial Temperature Media Rate Converter with PoE+ (PoEP) Power Sourcing. 10/100/1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-SX 850nm multimode (SC) [550 m/1804 ft.]. Extended Temperature, terminal block power connector for external power source.	None	05090600
	S-1110PP-M2ST05-XT - 10/100/1000 Gigabit Ethernet Stand-Alone Industrial Temperature Media Rate Converter with PoE+ (PoEP) Power Sourcing. 10/100/1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-SX 850nm multimode (ST) [550 m/1804 ft.]. Extended Temperature, terminal block power connector for external power source.	None	05090610

Product Image	Description	Power Cord	Product Number
	S-1110PP-S2SC10-XT - 10/100/1000 Gigabit Ethernet Stand-Alone Industrial Temperature Media Rate Converter with PoE+ (PoEP) Power Sourcing. 10/100/1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-LX/LH 1310 nm single mode (SC) [10 km/6.2 miles] or multimode (SC) [550 m/1804 ft.] using a mode conditioning adapter. Extended Temperature, terminal block power connector for external power source.	None	05090620
	S-1110PP-S2ST10-XT - 10/100/1000 Gigabit Ethernet Stand-Alone Industrial Temperature Media Rate Converter with PoE+ (PoEP) Power Sourcing. 10/100/1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-LX/LH 1310 nm single mode (ST) [10 km/6.2 miles] or multimode (SC) [550 m/1804 ft.] using a mode conditioning adapter. Extended Temperature, terminal block power connector for external power source.	None	05090630
	S-1110PP-S1SC10U-XT - 10/100/1000 Gigabit Ethernet Stand-Alone Industrial Temperature Media Rate Converter with PoE+ (PoEP) Power Sourcing. 10/100/1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-BX 1310nm TX / 1490nm RX single strand fiber, single mode (SC) [10 km/6.2 miles]. Extended Temperature, terminal block power connector for external power source.	None	05090640
	S-1110PP-S1SC10D-XT - 10/100/1000 Gigabit Ethernet Stand-Alone Industrial Temperature Media Rate Converter with PoE+ (PoEP) Power Sourcing. 10/100/1000Base-T (RJ-45) [100 m/328 ft.] to 1000Base-BX 1490nm TX / 1310nm RX single strand fiber, single mode (SC) [10 km/6.2 miles]. Extended Temperature, terminal block power connector for external power source.	None	05090650

Accessories

Accessory Image Descript	Accessory Model Number Number
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Accessory Image	Description	Model Number	Accessory Number
	DIN Rail Mounting Kit for 4 & 8 port IOLAN SDS/STS wall mount models, all Stand-Alone Media Converters and all Stand-Alone Ethernet Extenders. Two of these brackets are required for the 8 port STS8-D model.	4 DIN Rail Mount Bkt	04030840
	Standalone media converter wall / rack mount bracket	MCSM	05059999
Power Supply			
	TRIO-PS/1AC/48DC/5 DIN-Rail Power Supply: 48 VDC, 240 Watt with universal 85 to 264 VAC, 30 to 56V DC output range adjustable, -25 to 70°C extended operating temperature.	TRIO- PS/1AC/48DC/5 Power Supply	28664918

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