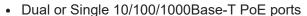
S-1110HP-XT Hi-PoE Media Converters

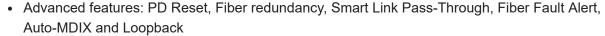


perle.com/products/media-converters/s-1110hp-xt-hi-poe-media-converters.shtml

IEEE 802.3bt Compliant PoE & Fiber Media Conversion

- 10/100/1000 Copper to 1G Fiber
- Dual Fiber SC/ST or Single Fiber SC Connectors
- Supplies IEEE 802.3bt Hi-PoE PSE (up to 100W) power
- Compatible with IEEE 802.3af PoE and IEEE 802.3at PoE+ PoE devices









Perle S-1110HP-XT Fiber Media Converters transparently connect copper to fiber while providing up to 100 Watts of IEEE 802.3bt compliant Hi-PoE PSE power to standards-based compliant devices. 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. With an operating temperature -40°F to +167°F (-40°C to +75°C) this Hi-PoE Media Converter is ideal for use with industrial devices subjected to harsh environments and severe temperatures such as pan-tilt-zoom (PTZ) security cameras with heaters, 802.11ax/ac wireless access points, alarms, traffic controllers, sensors and tracking devices.

Perle Hi-PoE Media Converters are classified as Power Sourcing Equipment (PSE). While using standard UTP cables that carry Ethernet data, Perle Hi-PoE media converters provide power to Powered Devices (PDs) that support the IEEE 802.3bt PoE standard (up to 100W of power) or pre-standard solutions including UPoE, 4PPoE, PoE++, UltraPoE, 4 Pair PoE, etc. As this standard is fully backwards compatible with the existing IEEE 802.3af PoE and IEEE 802.3at PoE+ standards, all of those PD's are also supported. The S-1110HP-XT Fiber Media Converter features single or dual 10/100/1000Base-T RJ45 ports to power one or two PD's per converter. Learn more about PoE

S-1110HP-XT Fiber Media Converters come with fixed fiber ports that support multimode or single mode fiber with dual ST/SC connectors or single strand fiber SC connectors.

- extend the life of non-fiber based equipment by enabling data transmission from 10/100/1000Base-T devices over 1000Base-X fiber
- extend the distance of an existing network by linking CAT5/6/7 cabling to multimode or single mode fiber up to 10km
- protect Ethernet data from EMI noise and interference by inter-connecting your copper-Ethernet devices over fiber.

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-1110HP PoE Media Converters the smart choice for IT professionals.

S-1110HP-XT Hi-PoE Media Converter Features

Power Over
Ethernet
(PSE)

Fully Compliant with IEEE 802.3bt Type 3 and 4 PSE

Performs the Power Sourcing Equipment (PSE) function on 1 or 2 UTP ports for IEEE 802.3bt compliant devices.

All models support Type 1 (PoE), Type 2 (PoE+), Type 3 (Hi-PoE) and Type 4 (Hi-PoE) PD gear

Advanced Power

• Enable/Disable PSE power by UTP port

Management

- Single or Dual PD signature detectionOver-Current Protection
- PD power classification detection (Class 0)

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

Type: 1, 2, 3, and 4 PDs

Class: 1, 2, 3, 4, 5, 6, 7, 8 PDs

Supports both Single-Signature and Dual-Signature PD connections

Multiport Configurations

2 port: 1x 10/100/1000Base-T and 1x 1000Base-X fixed fiber port

3 port: 2x 10/100/1000Base-T and 1x 1000Base-X fixed fiber port

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.

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.

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

Remote Loopback Capable of performing a loopback on the 1000Base-X fiber interface.

Not what you are looking for? View all Perle Media Converters. Need help? Contact Perle.

Power	P	O	w	е	r
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Input Supply Voltage	52 - 57 vDC
Power Consumption	1 x 10/100/1000Base-T port models: 4 watts
Concumption	2 x 10/100/1000Base-T port models: 4.7 watts
	Note: for the HP PoE SFP models the numbers above don't include the SFP power consumptions
Power Over Ethernet (PSE)	up to 100 watts per port
Power Connector	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	This green LED is operational only when power is applied. The LED will blink along with transmit/receive data on the fiber port
(LKF 1/2)	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	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
(LKC 1/2)	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	<i>Up:</i> 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) 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 IEEE802.3bt standard.						
	Default is "enabled"						

1	$P\Gamma$) P	OV	/er	R	eset	

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 vs Ethernet CAT

CAT3 and above for PoE power up to 15.4 watts

CAT5 and above for PoE power between 15.4 watts and up to 30 watts

CAT6 and above for PoE power between 30 watts and up to 100 watts

Note: always choose the highest Ethernet CAT category between desired speed and PoE power

Connectors

10/100/1000Base-

RJ45 connector

Τ

2 pair CAT5, EIA/TIA 568A/B or better cable for 10/100.

4 pair CAT5 UTP cable for Gigabit.

Note: always choose the highest Ethernet CAT category between desired speed and PoE power

Magnetic Isolation

1.5kv

Fixed Fiber

Dual multimode or single mode (Duplex) fiber - SC, ST

Single strand fiber (Simplex) - SC

Filtering

Filtering

1024 MAC Addresses

Frame Specifications

Buffer	1000 Kbits frame buffer memory
Size	Maximum frame size of 10,240 bytes Gigabit Maximum frame size of 2048 bytes Fast Ethernet
Environmental Spe	ecifications
Operating Temperature	-40 C to 75 C (-40 F to 167 F)
Storage Temperature	-40 C to 85 C (-40 F to 185 F)
Operating Humidity	5% to 90% non-condensing
Storage Humidity	5% to 95% non-condensing
Operating Altitude	Up to 3,048 meters (10,000 feet)
Heat Output	1 x 10/100/1000Base-T port models: 13.65 BTU/hr
(BTU/HR)	2 x 10/100/1000Base-T port models: 16 BTU/hr
MTBF (Hours)*	342019
Chassis	Metal with an IP20 ingress protection rating
Mounting	
Din Rail Kit	Optional
Rack Mount Kit	Optional
Product Weight an	nd Dimensions
Weight	0.4 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	0.56 kg, 1.2 lbs
Shipping Dimensions	300 x 200 x 70 mm, 11.81 x 7.87 x 2.75 inches
Regulatory Approv	vals

Emissions	FCC Part 15 Class A, EN55022 Class A
	CISPR 22 Class A
	CISPR 32:2012/EN 55032:2012 (Class A)
	CISPR 24:2010/EN 55024:2010
	EN61000-3-2
Immunity	EN55024
Electrical Safety	IEC 62368-1(ed 2)
	EN 62368-1:2014
	CE
Environmental	Reach, RoHS and WEEE Compliant
Other	ECCN: 5A991
	HTSUS Number: 8517.62.0020
	Perle Limited Lifetime Warranty

^{*}Calculation model based on MIL-HDBK-217-FN2 @ 30 °C

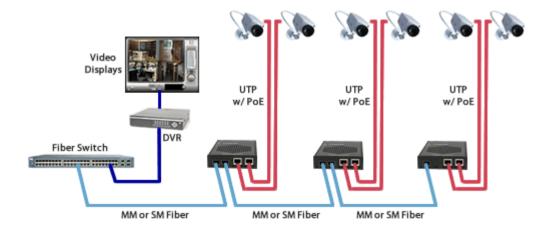
Gigabit Fiber to IP Cameras

Connect 10/100/1000 IP Cameras to Gigabit Backbone

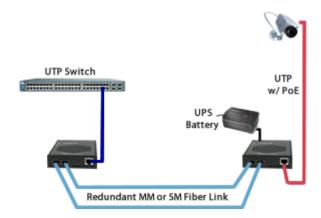
Extend the reach to IP cameras using fiber media converters. Security cameras are typically installed in remote locations throughout a facility. For cameras that are in the ceiling or other inaccessible areas like rooftops, light poles, along fences, pipelines and transit routes, the cost of bringing electrical power to each camera is eliminated by powering the equipment through the UTP cable using a PoE media converter. Cameras with features like Pan-Tilt-Zoom (PTZ), heaters, de-icers, or blowers generally require higher power (30-100 Watts), making the Perle S-1110HP PoE Media Converters the ideal solution.

Fiber is run from an existing data closet to an area with access to power. The Hi-PoE Media Converter can be powered by 57vDC 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 Hi-PoE Media Converter is converting the data from fiber to copper, adding power and transmitting it to the security camera.

To simplify cabling, multiport PoE media converters enable chaining, with a fiber uplink port and a fiber downlink port, of the fiber between media converters (also known as a bus architecture).



A second option is to have redundant fiber links for installations requiring fiber facility protection. There is an active fiber port and a protection fiber port that can support a fiber failure switchover of less than 50 milliseconds. The Hi-PoE media converter supplies power to the camera, and has power protection from an Uninterruptible Power Supply (UPS) battery back-up. In the event of a fiber cut and a loss of power, the camera continues to send data on the protection link.



Gigabit Fiber to Wireless Access Points

Connect 10/100/1000 Wireless Access Points to Gigabit Backbone

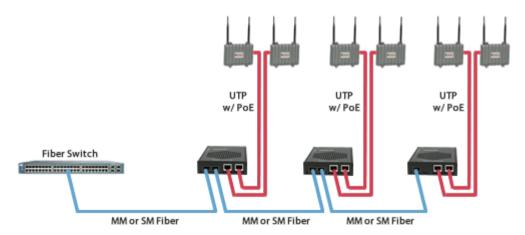
Extend the reach to wireless access points (AP) using fiber media converters. When a company deploys a wireless network in their office or large warehouse, APs need to be set up throughout the facility to ensure complete coverage for reliability. The network manager will likely need to extend further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

For wireless access points that require 30-100 Watts, such as those meeting the 802.11ax standard, 802.11ac standard or containing dual radios, the Perle S-1110HP PoE Media Converter is the ideal solution.

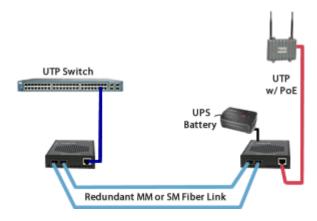
Fiber is run from an existing data closet to an area with access to power. The Hi-PoE Media Converter can be powered by 57vDC or standard 100 to 240 AC power. The media converter is attached to the power supply and the fiber cable. Copper (UTP or STP cable) Ethernet can be extended another 100

meters to the Wireless Access Point. The Hi-PoE Media Converter is converting the data from fiber to copper, adding power and transmitting it to the WAP.

To simplify cabling, multiport PoE media converters enable chaining, with a fiber uplink port and a fiber downlink port, of the fiber between media converters (also known as a bus architecture).



A second option is to have redundant fiber links for installations requiring fiber facility protection. There is an active fiber port and a protection fiber port that can support a fiber failure switchover of less than 50 milliseconds. The PoE+ media converter supplies power to the camera, and has power protection from an Uninterruptible Power Supply (UPS) battery back-up. In the event of a fiber cut and a loss of power, the camera continues to send data on the protection link.



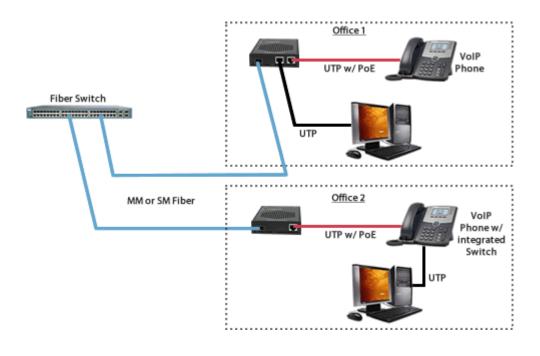
Gigabit Fiber to the Desktop / VoIP (Voice over IP) Phones

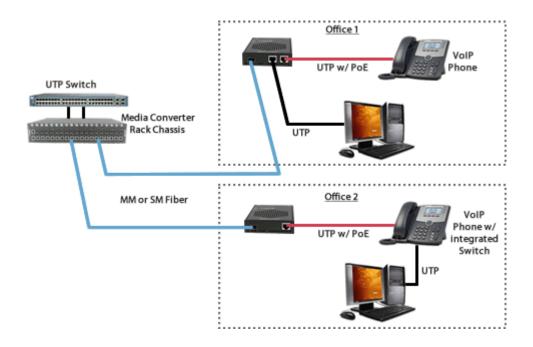
Connect 10/100/1000 workstations and VoIP Phones to a Gigabit Backbone

Extend the reach to your workstation and VoIP phones using fiber media converters. For VoIP phones that require 30-100 Watts power, such as those containing dual radios, the Perle S-1110HP PoE Media Converter is the ideal solution.

Fiber is run from an existing data closet to an area with access to power. The Hi-PoE Media Converter can be powered by 57vDC 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 Phone. The Hi-PoE Media Converter is converting the data from fiber to copper, adding power and transmitting it to the IP Phone.





Redundant Dual-Fiber Uplink

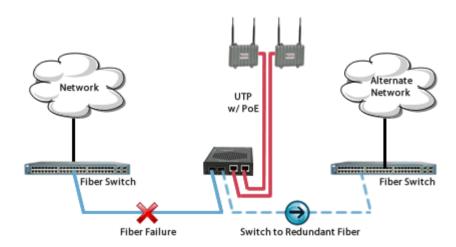
Assured Fiber Uplink Connectivity for your critical equipment

When extending the reach of your critical Ethernet equipment using fiber media converters, a dual fiber

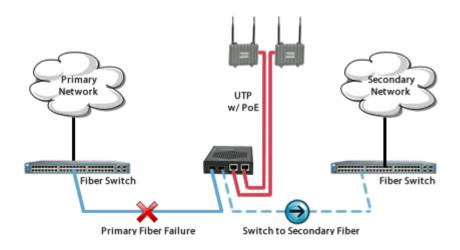
port media converter with Fiber Redundancy capability provides a fast switch-over of link traffic from one fiber connection to the other converters.

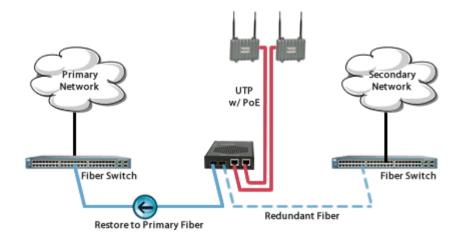
Two modes of operation are possible.;

1. **Redundant Fiber**: When the primary link fails, the media converter redirects traffic to the other fiber port within 50ms.



2. **Redundant Primary**: When the primary link fails, the media converter redirects traffic to the secondary fiber port within 50ms. Upon restoration of the primary fiber link, traffic is automatically redirected back to the primary fiber.

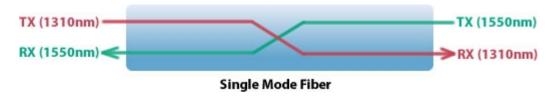




Single Mode / Single Fiber

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-1110HP-SC05**U** ("Up") and S-1110HP-SC05**D** ("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-1110HP-SC05US-1110HP-SC05D

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-1110HP-XT Hi-PoE

Model	# PoE	Fiber Port	Туре	Transmit	Receive	Power	Wavelength	Fiber	Core	Modal	Operating
	ports	Connector		(dBm)	(dBm)	Budget	(nm)	Type	Size	Bandwidth	Distance
						(-ID)				(B.81.1 - +1.5)	

								_					
				Min	Max	Min	Max						
S-1110HP-SC05-XT	1	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-1110HP-ST05-XT	1	Dual ST	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-1110HP-SC10-XT	1	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-1110HP-ST10-XT	1	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)
S-1110DHP-SC05-XT	2	Single SC	1000Base-SX	-9.5	-3.0	-20	-3.0	10.5	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-1110DHP-ST05-XT	2	Single ST	1000Base-SX	-9.5	-3.0	-20	-3.0	10.5	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-1110DHP-SC10-XT	2	Single 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	500 m (1,640 ft)
											50	500	550 m (1,804 ft)
										SMF	**	-	10 km (6.2 mi)
S-1110DHP-ST10-XT	2	Single 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	500 m (1,640 ft)
											50	500	550 m (1,804 ft)
										SMF	**	-	10 km (6.2 mi)

Single Fiber Models Recommended use in pairs

			r Type	Transmit (dBm)		Receive (dBm)		Power			Core	Modal	
Model	# PoE ports			Min	Max	Min	Max	Budget (dBm)	Wavelength (nm)	Fiber Type	Size (um)	Bandwidth (MHz* Km)	Operating Distance
S-1110HP-SC10U-XT	1	Single SC	1000Base-BX-U	-9.0	-3.0	-20	-3.0	11	1310 / 1490	SMF	**	-	10 km (6.2 mi)
S-1110HP-SC10D-XT	1	Single SC	1000Base-BX-D	-9.0	-3.0	-20	-3.0	11	1490 / 1310	SMF	**	-	10 km (6.2 mi)
S-1110DHP-SC10U-XT	2	Single SC	1000Base-BX-U	-9.0	-3.0	-20	-3.0	11	1310 / 1490	SMF	**	-	10 km (6.2 mi)
S-1110DHP-SC10D-XT	2	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

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