



NetwaySP1H

Single Port Ethernet to Fiber Media
Converter with Integral Power for
Composite Fiber (Powered) Cable



Installation Guide

Overview:

Altronix NetwaySP1H Media Converter with Integral Power provides one (1) 1Gb SFP port and one (1) port for up to 90W to be transmitted over single/multi-mode fiber or composite cable (powered) cable (fiber + copper combined) to NetWay Spectrum PoE Hardened Switches and remote media converters.

Features:

Agency Listings:

- CE European Conformity.

Input:

- 115VAC, 60Hz, 1.2A or 230VAC, 50/60Hz, 0.75A (auto-ranging).

Power:

- One (1) 56VDC non power-limited output up to 90W max. full power.
- Short circuit protection.

SFP Port:

- One (1) Gigabit SFP/Fiber port.
- Use with SFP module 1000Base-X (1Gb), compliant to Class 1 laser product (not included).

Ethernet/Data:

- One (1) port to switch.
- Wire type: 4-pair CAT5e and higher.
- Connectivity: RJ45, auto-crossover.
- Speed: Gigabit (1,000Mbps).
- Distance: up to 100m.

Environmental:

- Refer to Environmental Conditions on page 3.

Mechanical:

- Unit can be shelf mounted.
- Enclosure Dimensions (H x W x D approx.): 1.7" x 4.1" x 7.2" (44mm x 105mm x 183mm).
- Product weight (approx.): 2.2 lb. (1.0 kg).
- Shipping weight (approx.): 3.2 lb. (1.45 kg).

Compatible PoE Hardened Switches and Media Converters:

NetWaySP1BT:	3-port (802.3bt) PoE Switch with (1) SFP port.
NetWaySP1BTWPN:	3-port (802.3bt) PoE Hardened Switch with (1) SFP port.
NetWaySP3WPN:	3-port PoE Hardened Switch with (1) SFP port.
NetWay4EWPN:	4-port PoE Hardened Switch with (1) SFP port.
NetWay4E1WPN:	4-port PoE Hardened Switch with (1) SFP port.
NetWaySP4WPN:	4-port PoE Hardened Switch with (2) SFP ports.
NetWaySP41WPN:	4-port PoE Hardened Switch with (2) SFP ports.
NetWaySP1P:	Ethernet to Fiber Media Converter/Injector with (1) SFP port.
NetWaySP2P:	1-Port Fiber, 2-Port PoE+ Hardened Switch.
NetWaySP2PWPWPN:	1-Port Fiber, 2-Port PoE+ Hardened Switch.

Installation Instructions:

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/ANSI, and with all local codes and authorities having jurisdiction. Wiring should be UL Listed and/or Recognized wire suitable for the application. NetWaySP1H is intended for indoor use only.

1. Place NetWaySP1H in desired location on table or desktop only (*Fig. 3, pg. 4*).
2. Plug the grounded AC line cord (included) into the IEC 320 connector of the NetWay1BT unit. Plug unit into a reliable earth grounded socket. When using multiple units the sum of the individual name plate ratings should not exceed the supply circuit rating. **Do not connect to a receptacle controlled by a switch.**
3. Connect structured cable from ethernet switch/NVR (network video server) to RJ45 jack (*Fig. 1*).
4. Connect Composite (Powered) Fiber cable: fiber portion to port marked [SFP], copper portion connects to output marked [OUT 56VDC] (*Fig. 1, Fig. 2*).
5. Connect opposite end of Composite (Powered) Fiber cable: fiber portion connects to SFP port on NetWay Spectrum Hardened Switch or Media Converter, copper portion connects to power input of NetWay Spectrum Hardened Switch or Media Converter, **carefully observing correct polarity** (*Refer to respective NetWay Spectrum PoE Switch Installation Guide*).
6. PoE ON LED will illuminate indicating PoE device is turned on (*Fig. 1, Fig. 2*).
7. Connect device to be powered to terminals marked [+ Aux. -].

Note: Do not exceed 90W.

Fig. 1 - NetWaySP1H Operating With Powered PoE Switch
(see pg. 1 for list of compatible NetWay Spectrum PoE Switches)

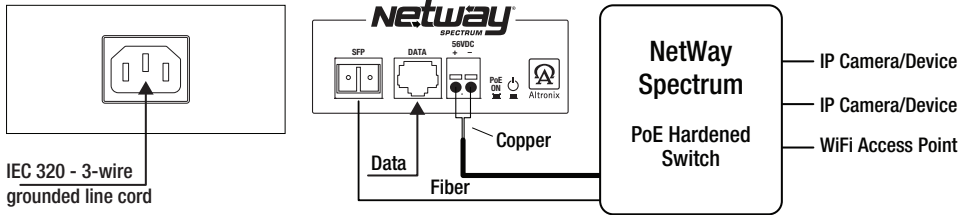
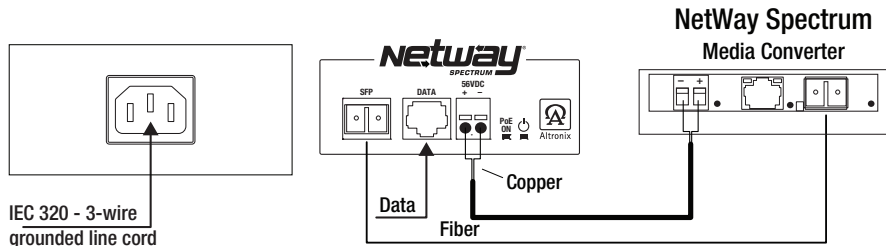


Fig. 2 - NetWaySP1H Operating With Media Converter
(see pg. 1 for list of compatible NetWay Spectrum Media Converters)



Recommended Altronix SFP Modules:

Altronix P1MM, P1SM10, P1AB2K and P1GCE are hot-pluggable SFP fiber transceiver modules and are readily usable with all Altronix Spectrum fiber optic equipment for 1Gb transmission rates.

P1MM - For use with Multi-Mode Fiber for distances up to 550m.

P1SM10 - For use with Single-Mode Fiber for distances up to 10km.

P1AB2K - For use with Single Strand Single-Mode Fiber for distances up to 2km.

P1GCE - For use with CAT5e or better for distances up to 100m.

Technical Specifications:

Parameter	Description
Number of Ports	One (1) Gigabit SFP Port and one (1) Gigabit (1,000Mbps) Ethernet Port.
Power Outputs	One (1) 56VDC non power-limited output 90W max.
Input power requirements	115VAC, 60Hz, 1.2A or 230VAC, 50/60Hz, 0.75A.
Environmental Conditions	Operating Ambient Temperature (90W): – 40°C to 50°C (– 40°F to 122°F) Relative Humidity: 85%, +/- 5% Storage Temperature: – 40°C to 85°C (– 40°F to 185°F). Operating Altitude: – 304.8 to 2,000m.
Regulatory Compliance	CE European Conformity.
Weights (approx.)	Product: 2.2 lb. (1.0 kg) Shipping: 3.2 lb. (1.45 kg)



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of an insulated DANGEROUS VOLTAGE within the product's enclosure that may be of sufficient magnitude to constitute an electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

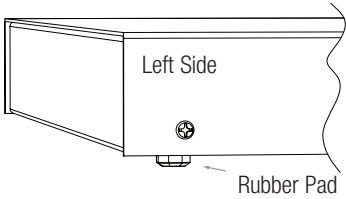


CAUTION: To reduce the risk of electric shock do not open enclosure. There are no user serviceable parts inside. Refer servicing to qualified service personnel.

Shelf Installation

- 1. Position and affix rubber pads (included) at each corner on the bottom of the unit (Fig. 3).
- 2. Place unit in desired location.

Fig. 3



Chassis Mechanical Drawing and Dimensions (H x W x D approx.):

1.7" x 4.1" x 7.2" (44mm x 105mm x 183mm)

