



# NetWaySP1P

Powered Media Converter/Injector



## Installation Guide

### Overview:

Altronix NetWaySP1P converts 10/100/1000 Mbps ethernet to Fiber (1000Base-X/SX/LX) and provides PoE.

### Features:

#### Agency Listings:

- UL/cUL Listed for Information Technology Equipment (UL 60950-1).
- CE approved.

#### Input:

- 24VDC @ 1.5A, 56VDC @ 0.75A (30W).
- 24VDC @ 1.0A, 56VDC @ 0.5A (15W).

#### Fiber Port:

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

#### Ethernet:

- IEEE 802.3at (30W) compliant.
- Wire type: 4-pair CAT5e and higher.
- Connectivity: RJ45, auto-crossover.
- Speed: 10/100/1000Mbps.
- Distance: up to 100m.

#### LED Indicators:

- **Yellow and Green LEDs** (RJ45 jack):  
IP Link status, 10/100/1000 Base-T/active.
- **Green Pwr In LED:**  
Indicates unit is powered.
- **Green PoE LED:**  
Indicates PoE present.
- **Green SFP (Fiber) LED:**  
Indicates SFP connection.

#### Environmental:

- Refer to *Environmental Conditions* on page 3.

#### Dimensions (W x L x H approx.):

3.375" x 3.8" x 1"  
(85.7mm x 96.52mm x 25.4mm).

### Installation Instructions:

Unit is powered via 24VDC-56VDC. NetWaySP1P is not intended to be connected to outside plant leads and should be installed indoors within the protected premises.

1. Mount NetWaySP1P in desired location utilizing the mounting hole (*Fig. 1a, pg. 2*). Use a proper fastener and/or wall anchor when securing NetWaySP1P with screw through its mounting hole to the wall.

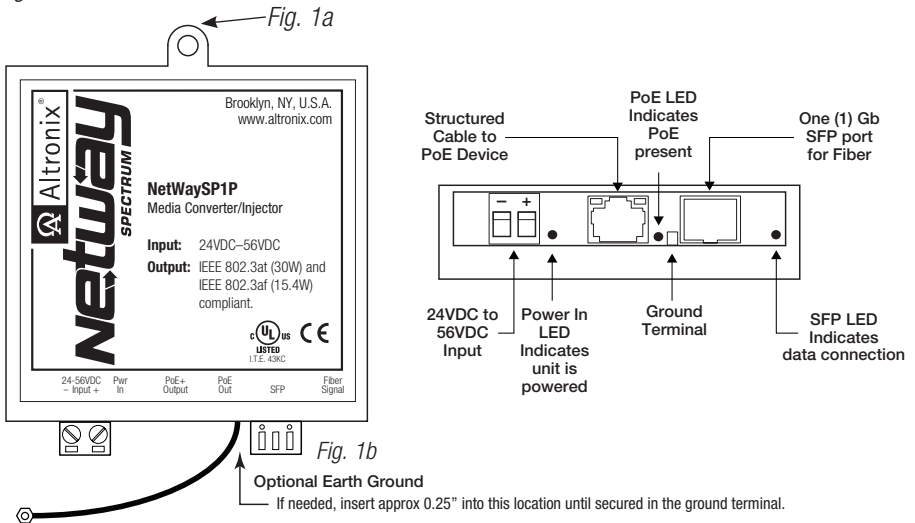
**Note: Earth ground can be used, if needed, for high transient or outdoor environments.**

**If used, insert an Earth ground wire (included with product) into the internal ground terminal until secured (a slight tug can check stability) & fasten the free end to a chassis earth ground.**

**If earth ground is not attached and needed, refer to *Fig. 1b, pg.2* for manual placement.**

2. Connect 24VDC-56VDC power source to terminals marked [24-56VDC – Input +]. Terminals accommodate up to 12 AWG wires.
3. Connect structured cable from port marked [PoE+ Output] on NetWaySP1P to a PoE device (*Fig. 2, pg. 2*).
4. Connect fiber optic cable to a fiber SFP module. Connect the module to the port marked [SFP] on the NetWaySP1P. Connect the other end of fiber cable to an SFP module of a remote device. SFP LED will illuminate indicating data connection (*Fig. 2, pg. 2*).

Fig. 1



## Typical Applications:

Fig. 2

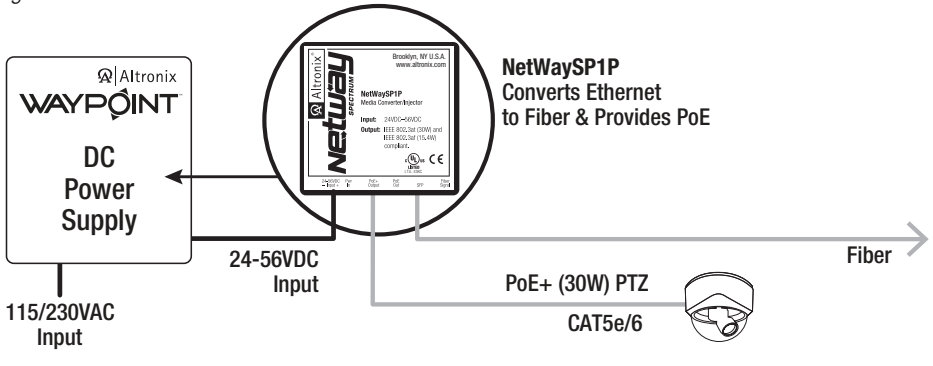


Fig. 3

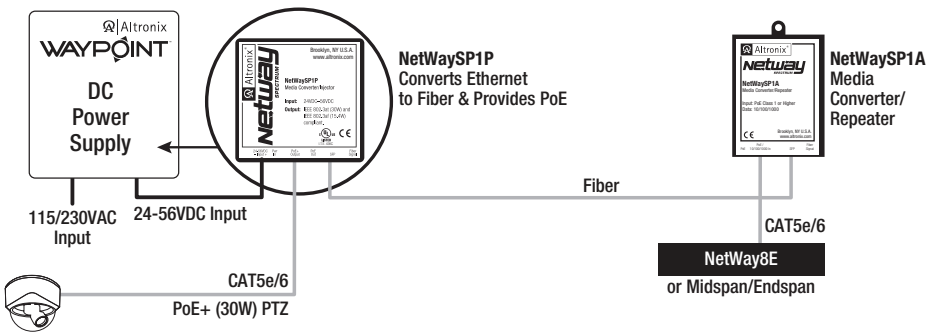
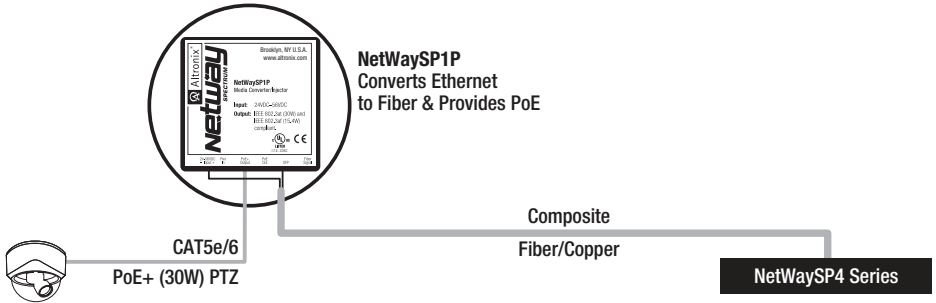




Fig. 4



### Technical Specifications:

Parameter	Description		
Ports	One (1) 1Gb SFP port. One (1) Ethernet port 10/100/1000.		
Input power requirements	24VDC @ 1.5A, 56VDC @ 0.75A (30W / PoE+). 24VDC @ 1.0A, 56VDC @ 0.5A (15W / PoE).		
Indicators	Green <b>Pwr In LED</b> : Indicates unit is powered. Green <b>PoE LED</b> : Indicates PoE present. Green <b>SFP (Fiber) LED</b> : Indicates SFP connection.		
Environmental Conditions	<b>Input</b>	<b>Output (Watts)</b>	<b>Temperature</b>
	24VDC	15W	-40°C to 65°C (-40°F to 149°F)
		20W	-40°C to 60°C (-40°F to 140°F)
		25W	-40°C to 55°C (-40°F to 131°F)
		30W	-40°C to 45°C (-40°F to 113°F)
	56VDC	25W	-40°C to 75°C (-40°F to 167°F)
		30W	-40°C to 70°C (-40°F to 158°F)
Storage: -40°C to 75°C (-40°F to 167°F).			
Relative Humidity: 85% +/-5%. Operating Altitude: -304.8 to 2,000m.			
Regulatory Compliance	 UL us I.T.E. 43KC UL/cUL Listed for Information Technology Equipment (UL 60950-1).   CE European Conformity.		
Weights (approx.)	Product: 0.25 lb. (0.11 kg)   Shipping: 0.3 lb. (0.14 kg).		

## **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.

Altronix is not responsible for any typographical errors.

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website: [www.altronix.com](http://www.altronix.com) | e-mail: [info@altronix.com](mailto:info@altronix.com) | Lifetime Warranty  
NetWaySP1P Rev. 070717 F17U

