NetWaySP1P
Powered
Media Converter/Repeater

c(UL)us CE
I.T.E. 43KC

Installation Guide

Overview:
Altronix NetWaySP1P converts 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: Gigabit (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.
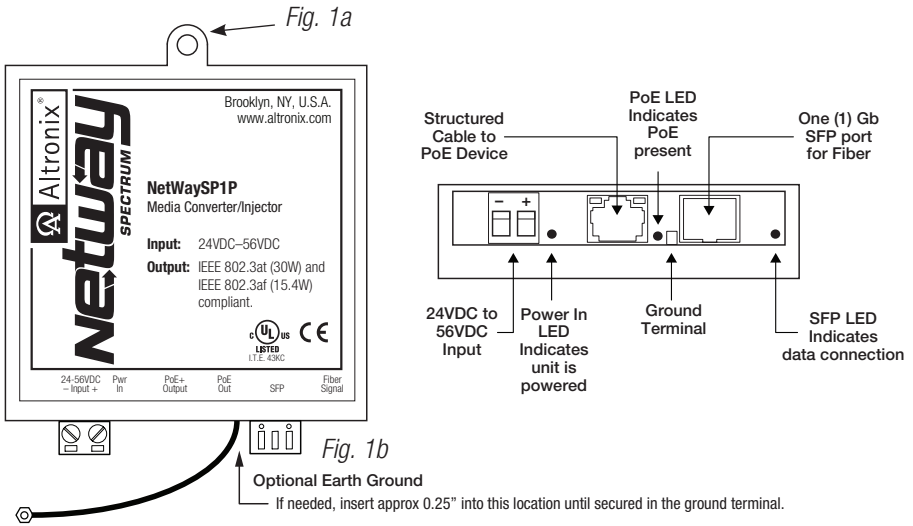   **Note: Earth ground can be used, if needed, for high transient or outdoor environments. If used, insert an Earth ground wire (included with product) into the internal ground terminal until secured (a slight tug can check stability) & fasten the free end to a chassis earth ground.**
   If earth ground 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)*.
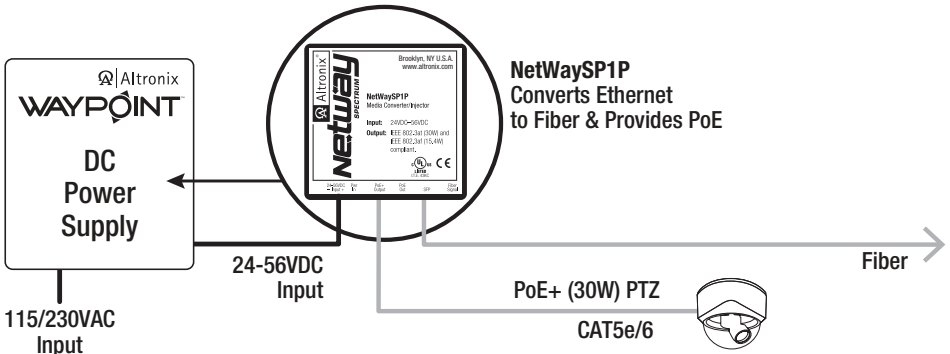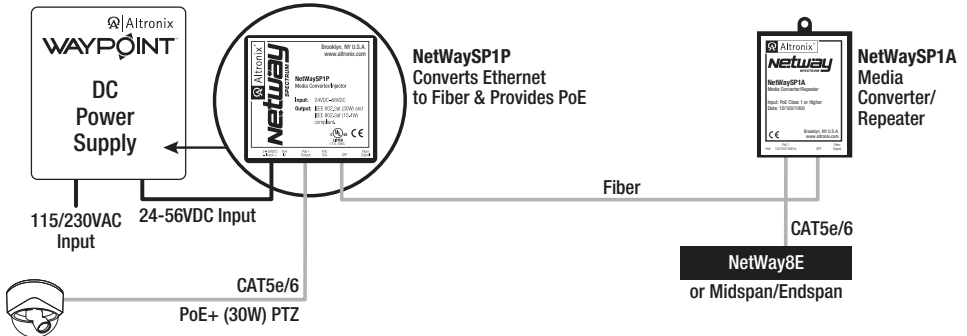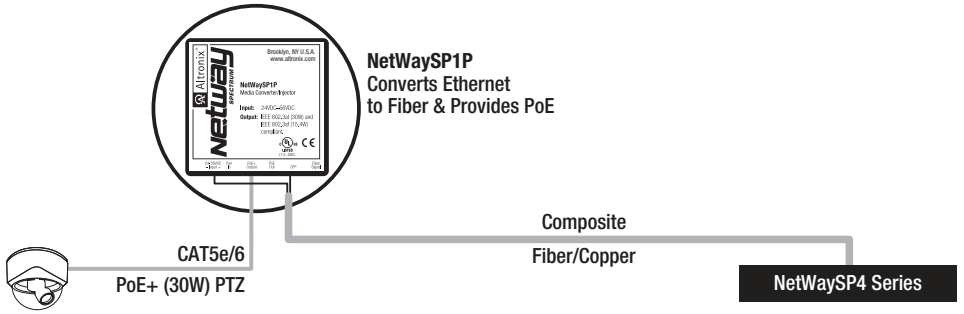
Fig. 1

Fig. 1a

Brooklyn, NY, U.S.A.
www.altronix.com

NetWaySP1P
Media Converter/Injector

Input: 24VDC–56VDC

Output: IEEE 802.3at (30W) and
IEEE 802.3af (15.4W)
compliant.

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CE

| 24-56VDC – Input + | Pwr In | PoE+ Output | PoE Out | SFP | Fiber Signal |

Structured
Cable to
PoE Device

PoE LED
Indicates
PoE
present

One (1) Gb
SFP port
for Fiber

24VDC to
56VDC
Input

Power In
LED
Indicates
unit is
powered

Ground
Terminal

SFP LED
Indicates
data connection

Fig. 1b

Optional Earth Ground
If needed, insert approx 0.25" into this location until secured in the ground terminal.

Typical Applications:

Fig. 2

Altronix
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**DC
Power
Supply**

**115/230VAC
Input**

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NetWaySP1P
Converts Ethernet
to Fiber & Provides PoE

**24-56VDC
Input**

Fiber

PoE+ (30W) PTZ
CAT5e/6

Fig. 3

Altronix
WAYPOINT

**DC
Power
Supply**

**115/230VAC
Input**

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Input: 24VDC–56VDC

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c(UL)us
LISTED

NetWaySP1P
Converts Ethernet
to Fiber & Provides PoE

24-56VDC Input

CAT5e/6
PoE+ (30W) PTZ

Fiber

Altronix
Netway

NetWaySP1A
Media Converter/Repeater

Input: PoE Class 1 or Higher
Data: 10/100/1000

Brooklyn, NY U.S.A.
www.altronix.com

NetWaySP1A
Media
Converter/
Repeater

CAT5e/6

NetWay8E
or Midspan/Endspan

Fig. 4

NetWaySP1P
Converts Ethernet
to Fiber & Provides PoE

Composite
Fiber/Copper

CAT5e/6
PoE+ (30W) PTZ

NetWaySP4 Series

Technical Specifications:

Parameter	Description		
Ports	One (1) 1Gb SFP port. One (1) Gigabit (1000Mbps) Ethernet port.		
Input power requirements	24VDC @ 1.5A, 56VDC @ 0.75A (30W / PoE+). 24VDC @ 1.0A, 56VDC @ 0.5A (15W / PoE).		
Indicators	Green **Pwr In LED**: Indicates unit is powered. Green **PoE LED**: Indicates PoE present. Green **SFP (Fiber) LED**: Indicates SFP connection.		
Environmental Conditions	Input	Output (Watts)	Temperature
	24VDC	15W	– 40ºC to 65ºC (– 40ºF to 149ºF)
		20W	– 40ºC to 60ºC (– 40ºF to 140ºF)
		25W	– 40ºC to 55ºC (– 40ºF to 131ºF)
		30W	– 40ºC to 45ºC (– 40ºF to 113ºF)
	56VDC	25W	– 40ºC to 75ºC (– 40ºF to 167ºF)
		30W	– 40ºC to 70ºC (– 40ºF to 158ºF)
	Storage: – 40ºC to 75ºC (– 40ºF to 167ºF).		
	Relative Humidity: 85% +/– 5%. **Operating Altitude:** – 304.8 to 2,000m.		
Regulatory Compliance	UL/cUL Listed for Information Technology Equipment (UL 60950-1). I.T.E. 43KC 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.

MEMBER

NetWaySP1P