Altronix®

Rev. 12012025

NetWaySP2BTWPX

802.3bt Media Converter/Injector with Integral Power

Netway SPECTRUM

Altronix NetWaySP2BTWP Outdoor 802.3bt media converter/injector provides two (2) 802.3bt (4PPoE) ports up to 180W total and accommodates Fiber (1000Base-X/SX/LX) or structured cable to transmit data. Unit can be deployed with structured cable, conventional single/multimode fiber or composite cable (fiber + copper combined).
Cameras/edge devices may be located up to 100m from the unit.
NEMA 4/4X IP66-11 enclosure accommodates up to four (4) batteries (48V of backup).

NetWaySP2BTWPX

Specifications

802.3bt Media Converter/Injector (NetWaySP2BT):

Input

Voltage	56VDC from POE240

Power Output

Maximum Power	Two (2) ports rated up to 90W max. each. IEEE 802.3af, 802.3at and 802.3bt compliant
Fiber Port:	One (1) 1Gb SFP port
Data Port	Connectivity: RJ45, auto-crossover Wire type: 4-pair CAT5e Distance: up to 100m Speed: 10/100/1000 Mbps

Indicators (LED)

Yellow/Green RJ45 LEDs:	Yellow: 10/100 Green: 10/100/1000
Green PoE LED:	PoE present
Green SFP (Fiber) LED:	SFP connection

Power Supply/Charger (POE240):

Input

Voltage	115VAC, 60Hz, 2.5A or 230VAC, 50/60Hz, 1.3A
Input Fuse	5A/250V

Output

Voltage Range	56VDC/240W
Current	6.4A continuous supply current
Maximum Power	240W total power *(refer to operating temperature)* Integral surge protection

Battery Charging

Type	$LiFePO_4$ (Lithium Iron Phosphate) or sealed lead acid or gel type
Failover	Upon AC loss, instantaneous
Charging Circuit	24VDC, 0.75A Batteries are sold separately

NetWaySP2BTWPX:

Agency Listings

CE	European Conformity

Physical and Environmental

Dimensions (W x L x H)

Enclosure:	17.53" x 15.3" x 6.67" (445.3mm x 388.6mm x 169.4mm)
Shipping:	21.375" x 14.5" x 9.5" (542.9mm x 374.7mm x 241.3mm)

NEMA 4/4X, IP66-11 Rated enclosure for outdoor use
Accommodates two (2) 12VDC batteries (24V of backup)
For outdoor battery backup, battery enclosure must have sufficient ventilation. Use Altronix Vent2 kit

Weight (approx.)

Product:	15 lb. (6.8 kg)
Shipping:	17.5 lb. (7.9kg)

Temperature

Operating:	
60W:	– 40ºC to 75ºC (– 40ºF to 167ºF)
80W:	– 40ºC to 70ºC (– 40ºF to 158ºF)
90W:	– 40ºC to 60ºC (– 40ºF to 140ºF)
Storage:	– 40ºC to 85ºC (– 40ºF to 185ºF)
Relative Humidity	85% +/– 5%
BTU/Hr. (approx.):	122 BTU/Hr.
Operating Altitude	– 304.8 to 2,000m

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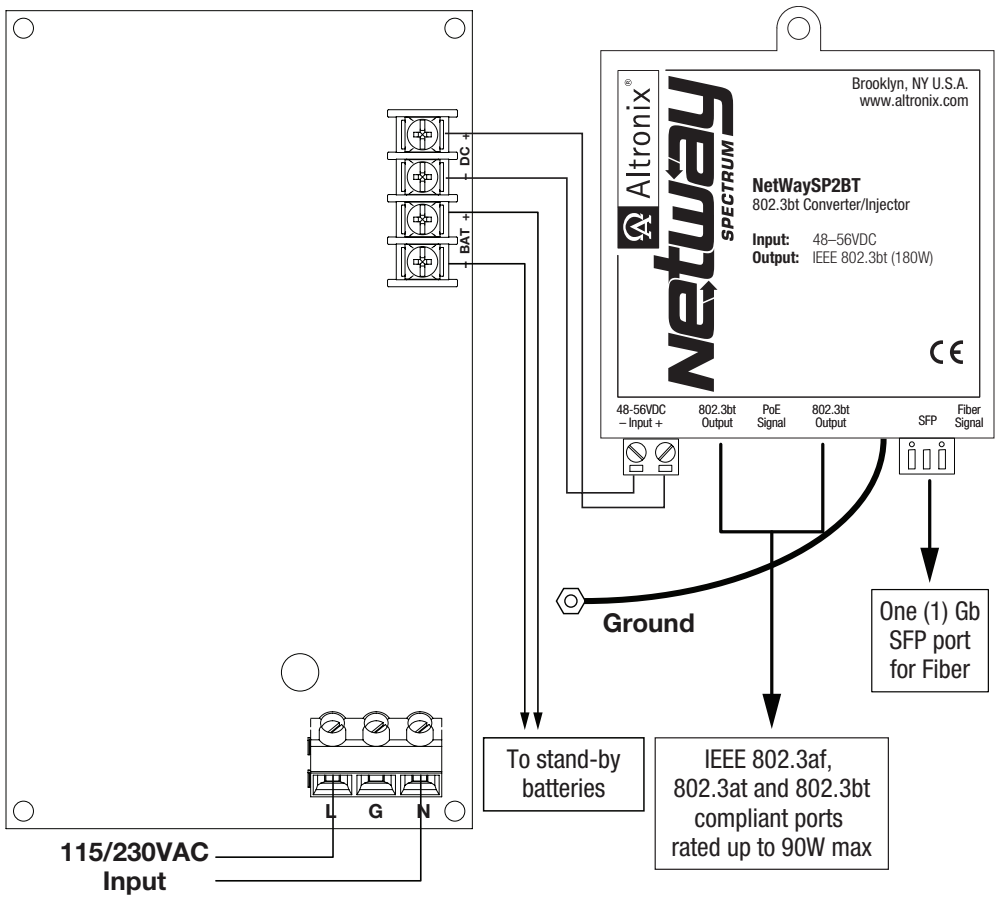
802.3bt Media Converter/Injector with Integral Power

Similar products

NetWaySP2BTWP	Outdoor 802.3bt media converter/injector with integral power in NEMA 4/4X IP66-11 enclosure
NetWaySP2BT	802.3bt Media converter/injector in compact insulated housing
NetWaySP2BTWPN	802.3bt Media converter/injector in NEMA 4/4X IP66-11 enclosure

Typical Application



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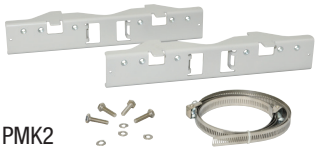
Accessories (order separately)



PMK2

PMK2 - Pole Mount Kit

PMK2 pole mount kit is designed to simplify installation of outdoor units. It accommodates 2"- 8"(diameter) poles.

SFP Modules - Hot Pluggable Transceivers

P1MM	Multi-Mode SFP Module for distances up to 550m
P1SM10	Single-Mode SFP Module for distances up to 10km
P1AB2K	Single Strand SFP Module for distances up to 2km
P1GCE	Copper SFP Module for distances up to 100m

NetWaySP1A

NetWaySP1A

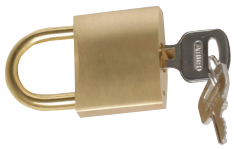
Ethernet over Fiber Media Converter/Repeater for Applications Requiring an Additional SFP Port

NetWaySP1A PoE powered media converter/repeater converts 10/100/1000 Mbps to Fiber (1000Base-X/SX/LX).

Vent2

Vent2 - Air Vents For NEMA4/4X Rated Enclosures

Altronix Vent2 air vents ensure efficient air circulation and prevent water condensation in NEMA4/4X Rated Enclosures. Pair of air vents must be mounted per enclosure.



Lock1WP

LOCK1WP - Pad Lock for Altronix Outdoor Enclosures

Altronix Lock1WP is a pad lock to secure the latches on Altronix outdoor enclosures. Includes a single pad lock and two (2) keys.

WG1

WG1 - NEMA Rated Wire Gland Inlet

Altronix WG1 facilitates wiring for all Altronix outdoor enclosures.

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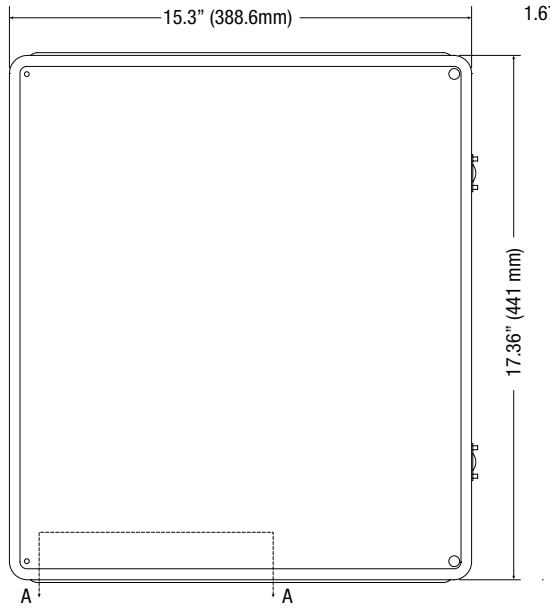
Dimensions and Drawing

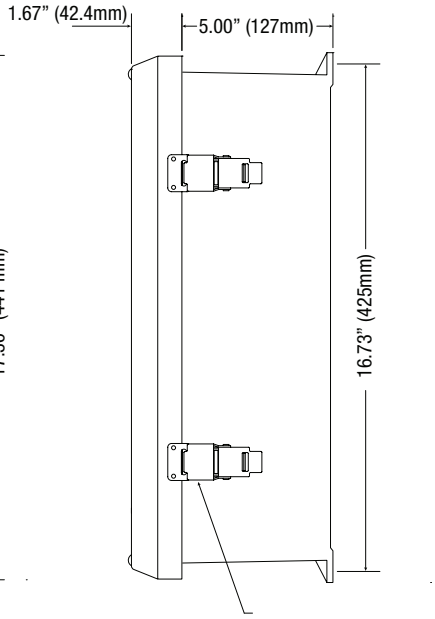
Dimensions (H x W x D approximate)

17.53” x 15.3” x 6.67” (445.3mm x 388.6mm x 169.4mm)

FRONT VIEW



RIGHT SIDE VIEW



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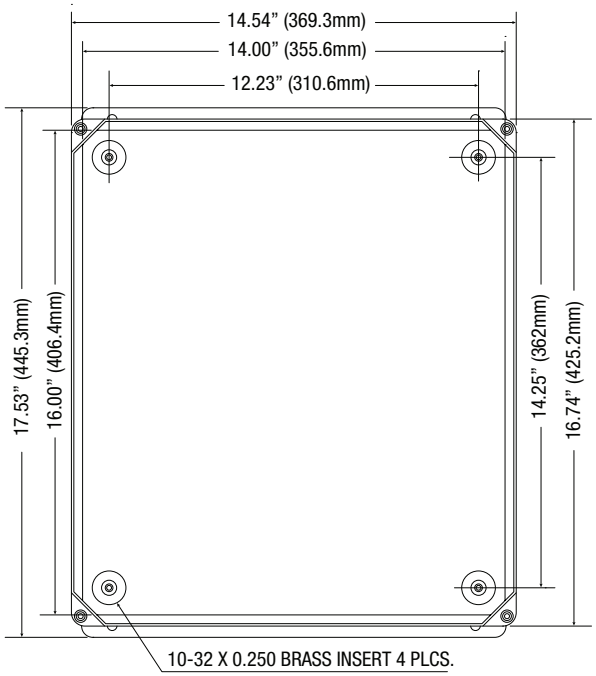
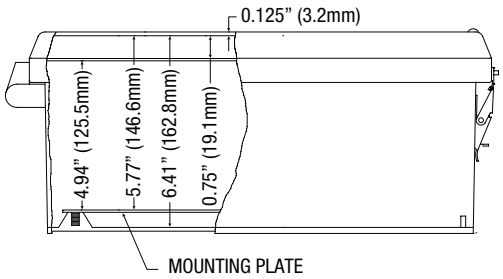
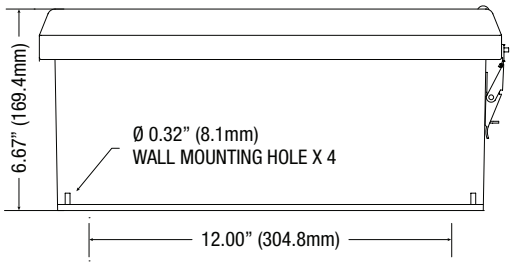


SECTION A-A



END VIEW