



**NetWaySP4BT
3 Series 4 Port
Hardened
360W 802.3bt
4PPoE
Switches**



Altronix NetWaySP4BT3 Series 4 Port Hardened 360W 802.3bt 4PPoE Switches Installation Guide

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Altronix NetWaySP4BT3 Series 4 Port Hardened 360W 802.3bt 4PPoE Switches



Product Information

Specifications:

- Model: NetWaySP4BT3 Series
- Ports: 4 x 802.3bt compliant Ethernet ports, 2 x 1Gb SFP ports
- Power: 360W total power
- Enclosures:
 - NetWaySP4BTWP3: NEMA4/4X, IP66 rated Outdoor enclosure
 - NetWaySP4BTX3: NEMA1 rated Indoor enclosure
 - NetWaySP4BTWPX3: NEMA4/4X, IP66 rated Outdoor enclosure, accommodates up to four 12VDC/4AH batteries
 - NetWaySP4BTPL3: Backplane version

Product Usage Instructions

Installation Guide:

Altronix NetWaySP4BT3 Series switches are equipped with LINQ Technology for monitoring and control.

Features:

- Equipped with LINQ Technology for monitoring and control over the network
- Supports auto-negotiation
- Battery Backup: Supports sealed lead acid or gel-type batteries
- Dimensions:
 - NetWaySP4BTWP3: 17.53 x 15.3 x 6.67 inches

- NetWaySP4BTX3: 13.5 x 13 x 3.25 inches

Installation Instructions:

Wiring methods should comply with relevant electrical codes and should be done by trained service personnel.

NetWaySP4BTPL3:

1. Mount backplane in the desired location/enclosure with supplied hardware.

NetWaySP4BTWP3/NetWaySP4BTWPX3:

1. Remove backplane from the enclosure before drilling.
2. Mark and drill inlets on the enclosure for wiring.

Input/Data Connections:

1. Connect structured cables from Port 1 to Port 4 on the unit to PoE compliant cameras/edge devices.
2. Insert SFP module into the SFP port and connect it to the corresponding input of an SFP switch.

Recommended Altronix SFP Modules:

- P1MM for Multi-Mode Fiber (up to 550m)
- P1SM10 for Single-Mode Fiber (up to 10km)
- P1AB2K for Single Strand Single-Mode Fiber (up to 2km)
- P1GCE for CAT5e or better (up to 100m)

FAQs

- **Q: What type of batteries are supported for battery backup?**

A: The NetWaySP4BT3 Series supports sealed lead acid or gel-type batteries for battery backup.

- **Q: How should the wiring be done for installation?**

A: Wiring methods should comply with the National Electrical Code/NFPA 70/ANSI and all local codes. It is recommended to have the units installed by trained service personnel.

Models Include

- **NetWaySP4BTWP3**

- 4-port Hardened 802.3bt 4PPoE Switch and Power Supply/Charger
- NEMA4/4X, IP66 rated Outdoor enclosure.

- **NetWaySP4BTWPX3**

- 4-port Hardened 802.3bt 4PPoE Switch and Power Supply/Charger
- NEMA4/4X, IP66 rated Outdoor enclosure.
- **Accommodates up** to four (4) 12VDC/4AH batteries.

- **NetWaySP4BTX3**

- 4-port Hardened 802.3bt 4PPoE Switch and Power Supply/Charger

- NEMA1 rated Indoor enclosure.
- NetWaySP4BTPL3
 - 4-port Hardened 802.3bt 4PPoE Switch and Power Supply/Charger
 - Backplane version.

Installing Company: _____

Service Rep. Name: _____

Address: _____

Phone #: _____

Overview

Altronix NetWaySP4BT3 Series Hardened 802.3bt 4PPoE Layer 2 Switches are equipped with two (2) 1Gb SFP ports and four (4) 802.3bt compliant Ethernet ports rated at 90W each, with 360W total power. Embedded LINQ Technology enables monitoring, control, and reporting from anywhere over the network. For unmanaged switches, refer to NetWaySP41BT3 Series.

Features

- **Agency Listings:**
 - CE European Conformity.
- **Input**
 - 115VAC, 60Hz, 3.5A or 230VAC, 50/60Hz, 2A.
- **Output**
 - Four (4) 10/100/1000 Mbps Ethernet ports rated at 90W each (360W total power).
 - IEEE 802.3af, 802.3at, 802.3bt compliant.
- **SFP Ports:**
 - Two (2) Gigabit SFP ports.
- **Ethernet Ports:**
 - Four (4) 10/100/1000 Mbps ports.
 - Connectivity: RJ45, auto-crossover.
 - Wire type: 4-pair CAT5e or higher structured cable.
 - Speed: 10/100/1000 Mbps, half/full duplex, auto negotiation.
- **VLAN:**
 - Multiple management VLAN assignment.
 - 802.1Q Tagged VLAN.
 - Up to 10 VLAN groups. ID Range 2-4095.
- **Battery Backup:**
 - 24VDC charging circuit charges sealed lead acid* or gel type* batteries.
 - Automatic switch over to stand-by battery when AC fails.
- **Indicators (LED)**
 - Individual PoE On LEDs for each port.
 - Individual IP Link status, 10/100/1000 Base-T/active LEDs for each port.
 - ALOS LED indicates fiber connection for SFP port.
 - Heartbeat LED indicates proper operation of the unit.
- **LINQ Technology:**

- Remote network management allows for camera/ device reset and diagnostic monitoring.
- Provides local and/or remote access to critical information via LAN/WAN.
- Email and Windows Dashboard Alert notifications report real-time events.
- Event log tracks history.

- **Mechanical:**

- **NetWaySP4BTPL3:**
 - Dimensions (H x W x D approx.): 10.75" x 8.875" x 2.375 (273.1mm x 225.4mm x 60.3mm).
- **NetWaySP4BTWP3:**
 - NEMA4/4X, IP66 Rated enclosure for outdoor use.
 - Dimensions (H x W x D approx.): 13.31" x 11.31" x 5.59" (338.1mm x 287.3mm x 142mm).
- **NetWaySP4BTWPX3:**
 - NEMA4/4X, IP66 Rated enclosure for outdoor use.
 - Accommodates sealed lead acid or gel type 12VDC batteries.
 - Dimensions (H x W x D approx.): 17.53" x 15.3" x 6.67" (445.3mm x 388.6mm x 169.4mm).
- **NetWaySP4BTX3:**
 - NEMA1 rated indoor enclosure
 - Dimensions (H x W x D approx.): 13.5" x 13" x 3.25" (342.9mm x 330.2mm x 83mm).

CAUTION: When using lead acid or gel type batteries, enclosure must be properly ventilated. Battery operational temperature should be derated 10-15°C lower than manufacture's rated high temperature.

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.

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. All units should be installed by a trained service personnel.

Installation

- **NetWaySP4BTPL3:**
 1. Mount backplane in the desired location/enclosure with hardware supplied.
- **NetWaySP4BTWP3/NetWaySP4BTWPX3:**
 1. Remove backplane from enclosure prior to drilling. Do not discard hardware.

Note: Make sure that hardware will not interfere with components of the circuit board.
 2. Mark and drill desired inlets on the enclosure to facilitate wiring. Maximum NEMA type 4X rated fittings to be used are 0.5". Follow manufacturer's specifications for the appropriate size opening.

Note: Inlets for conduit fittings should only be made on the bottom of the enclosure.

To facilitate wire entry utilize weather-tight NEMA rated connectors (supplied), bushings, and cable.

3. Clean out the inside of enclosure before remounting circuit boards/backplane.

4. Mounting NEMA4/4X rated enclosure:


- **Wall mount:** Mount unit in desired location. Mark and drill holes to line up with the top and bottom hole of the enclosure flange. Secure enclosure with appropriate fasteners (e. g. screws and anchors; bolts and locking nuts, etc.) that are compatible with mounting surface and are of sufficient length/construction to ensure a secure mount (Fig. 4).
- **Pole Mount:** Refer to Fig. 5 – 9.

5. Mount backplane in enclosure with hardware.

• **NetWaySP4BTX3:**

1. Mount unit in the desired location. Mark and predrill holes in the wall to line up with the top two keyholes in the enclosure. Install two (2) upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two (2) upper screws; level and secure. Mark the position of the lower two (2) holes. Remove the enclosure. Drill the lower holes and install two fasteners. Place the enclosure's upper keyholes over the two (2) upper screws. Install the two (2) lower screws and make sure to tighten all screws. Secure enclosure to earth ground.

Power Connection:

1. Secure cabinet to earth ground. Connect AC power from overcurrent protective device circuit breaker (20A @ 115VAC, 60Hz, 16A @ 230VAC, 50/60Hz) to the terminals marked [L, N] on power supply board (Fig. 3). Use 14AWG or larger for all power connections (Battery, DC output, AC input). Connect ground lug  to earth or green branch wire (12AWG min.). Keep power-limited wiring separate from non power-limited wiring by utilizing separate knockouts/ inlets. Minimum 0.25" spacing must be provided.

CAUTION: Do not touch exposed metal parts. Shut branch circuit power before installing or servicing equipment. There are no user serviceable parts inside. Refer installation and servicing to qualified service personnel.

Input/Data Connections:

1. Connect structured cables from port marked [Port 1] to [Port 4] on NetWay unit to PoE compliant cameras/edge devices (Fig. 1).
2. Insert SFP module into port(s) marked [SFP], then connect cable to the SFP module on NetWaySP4BTB to the corresponding input of an SFP switch (Fig. 1).

Battery Backup:

1. Connect two (2) 12VDC batteries wired in series or one (1) 24V battery to terminals marked [– BAT +] (Fig. 1), carefully observing polarity. When use of stand-by batteries is desired, they must be lead acid or gel type. If batteries are housed in a weather-proof enclosure (NetWaySP4BTWP3, NetWaySP4BTWPX3), it must be properly ventilated. Use Altronix Vent2 kit.

Note: When batteries are not used, a loss of AC will result in the loss of output voltage. For outdoor battery backup, battery enclosure must have sufficient ventilation.

Security:

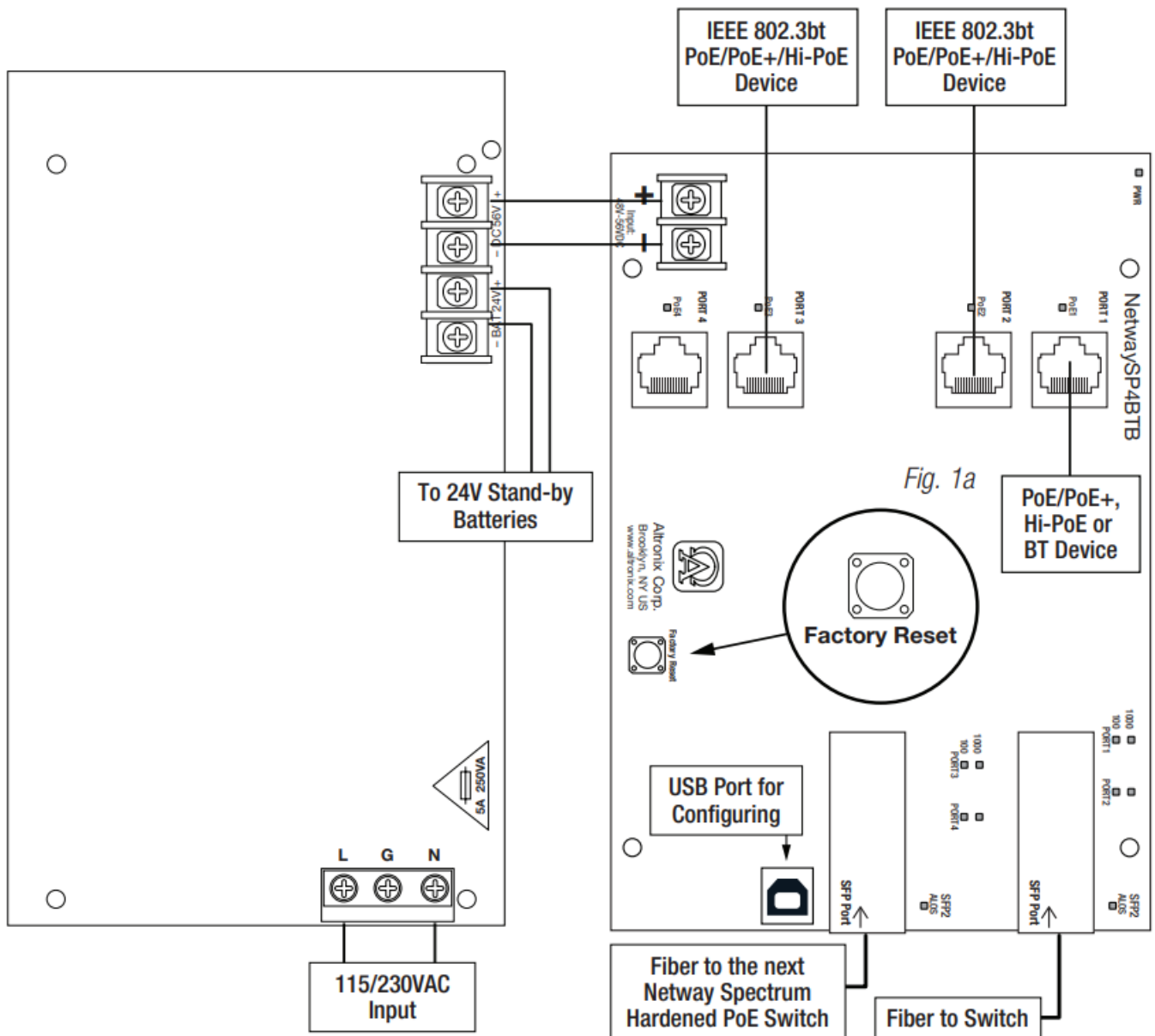
Please ensure that the cover is secured with: Key lock and screws for NetWaySP4BTX3, Security Bolt for NetWaySP4BTWP3 and NetWaySP4BTWPX3.

Technical Specifications

Parameter	Description		
Number of Ports	Four (4) 10/100/1000 Mbps Ethernet ports rated at 90W each. IEEE 802.3af, 802.3at, 802.3bt compliant. Two (2) Gigabit SFP Ports.		
Input Power Requirements	115VAC, 60Hz, 3.5A or 230VAC, 50/60Hz, 2A.		
Environmental Conditions	Operating Ambient Temperature: 360W: – 30°C to 70°C (– 22°F to 158°F) 240W: – 30°C to 75°C (– 22°F to 167°F) Storage Temperature: – 30°C to 85°C (– 22°F to 185°F) Relative Humidity: 85%, +/- 5% Operating Altitude: – 304.8 to 2,000m		
Weights (approx.)	Model	Product Weight	Shipping Weight
	NetWaySP4BTWP3	10.5 lb. (4.76 kg)	11.9 lb. (5.4 kg)
	NetWaySP4BTWPX3	15 lb. (6.8 kg)	17.5 lb. (7.9kg)
	NetWaySP4X3 NetWaySP4PL3	6.85 lb. (3.11 kg) 2.6 lb. (1.18 kg)	7.75 lb. (3.51 kg) 4.0 lb. (1.81kg)

Typical Applications

Fig. 1



Configuring Units for Network Connection

Please be sure to visit altronix.com for latest firmware and installation instructions

Factory Default Settings:

- **IP Address:** 192.168.168.168
- **User Name:** admin
- **Password:** admin

1. Set the static IP address for the laptop to be used for programming to the same network IP address as the NetwaySP4BT. The default address of the NetwaySP4BT is 192.168.168.168, I.E. 192.168.168.200.
2. Connect one end of the network cable to the network jack on the NetwaySP4BT and the other to the network connection of the laptop.
3. Open a browser on the computer and enter "192.168.168.168" into the address bar. A dialog box Authentication Required will appear requesting both user name and password. Enter the default values here. Click on the

button labeled Log In.

4. The status page of the NetWaySP4BT will appear. Click on the tab labeled Network Settings. This will open the Network Setting screen. In this screen the MAC Address of the NetWaySP4BT module will be found along with the Network Settings and Email Settings.

Network Settings:

In the IP Address Method field, select (STATIC or DHCP), then follow the appropriate steps.

Static:

- **A. IP Address:** Enter the IP address assigned to the NetWaySP4BT by the network administrator.
- **B. Subnet Mask:** Enter the Subnet of the network.
- **C. Gateway:** Enter the TCP/IP gateway of the network access point (router) being used. Gateway configuration is required to properly receive emails from the device.
- **D. HTTP Port:** Enter the HTTP port number assigned to the NetWaySP4BT module by the network administrator to allow remote access and monitoring. The default inbound port setting is 80. HTTP is not encrypted and unsecure. Even though HTTP can be used for remote access, it is recommended primarily for use with LAN connections.
- **E. HTTPS Port:** Enter the HTTPS port number assigned to the NetWaySP4BT module by the network administrator to allow remote access and monitoring. The default inbound port setting is 443. Being encrypted and more secure, HTTPS is highly recommended for remote access.
- **F.** Click the button labeled Submit Network Settings. A dialog box will display "New network settings will take effect after the server is rebooted". Click OK.

DHCP:

- **A.** After selecting DHCP in the IP Address Method field click the button labeled Submit Network Settings. A dialog box will display "New network settings will take effect after the server is rebooted". Click OK. Next, click on the button labeled Reboot Server. After rebooting the NetWaySP4BT will be set in the DHCP mode. The IP address will be assigned by the router when the NetWaySP4 is connected to the network. It is recommended to have the assigned IP Address reserved to ensure continued access (see the network administrator).
- **B. Subnet Mask:** When operating in DHCP, the router will assign the subnet mask values.
- **C. Gateway:** Enter the TCP/IP gateway of the network access point (router) being used.
- **D. HTTP Port:** Enter the HTTP port number assigned to the NetWaySP4BT module by the network administrator to allow remote access and monitoring. The default inbound port setting is 80. HTTP is not encrypted and unsecure. Even though HTTP can be used for remote access, it is recommended primarily for use with LAN connections.

Secure Network Setup (HTTPS):

In order to setup HTTPS for a Secure Network Connection, a Valid Certificate and Key must be used. Certificates and Key should be in a ".PEM" format. Self Certifications should only be used for testing purposes as no actual authentication is being performed. In a Self-Certified mode, the connection will still state that it is unsecure. How to upload Certificate and Key to setup HTTPS:

1. Open Tab Labeled "Security"
2. Select Tab Labeled "Email/SSL"
3. Scroll to bottom under "SSL Settings"
4. Click "Select Certificate"
5. Browse and select valid Certificate to upload from server
6. Click "Select Key"
7. Browse and select valid Key to upload from server
8. Click "Submit Files"

Once the Certificate and Key is uploaded successfully you can proceed with setting up HTTPS in Network Settings.

- **A. HTTPS Port:** Enter the HTTPS port number assigned to the NetWay Spectrum module by the network administrator to allow remote access and monitoring. The default inbound port setting is 443. Being encrypted and more secure, HTTPS is highly recommended for remote access.
- **B.** Click the button labeled Submit Network Settings. A dialog box will display "New network settings will take effect after the server is rebooted". Click OK.

VLans

VLans (Virtual Local Area Networks) are a subnetwork that allow for the grouping together of devices for improved network traffic as well as providing higher security by allowing greater control over which devices have access to each other. It is important to plan how you will setup your devices for each vLan.

Configuring vLan on the Altronix NetwaySP4BT3 Series Layer 2 Switch:

1. Ensure Laptop or PC being used to program the vLan settings is on a port that will be assigned to your first vLan configuration. By default the management portion of the software is assigned to vLan-1, CAUTION: Changing VID=1, the industry standard VLAN HOST address to any other VID address should be done with caution and performed only locally, since the change will drop the original HOST connection. Local access then facilitates a physical reconnection to respective port.
Note: Only this vLan network allows access to IP management.
 2. In Network Section click on Vlan Tab.
 3. Click Add vLan.
 4. Enter a name for the vLan.
 5. Enter a vLan ID, i.e. 10, 20, etc. Ensure this vLan ID is associated with a vLan setup on the main switch and that your Laptop or PC being used for programming is on this same ID.
Note: vLan ID could be any value 2-4094.
 6. Assign vLan QOS (Quality of Service) priority. 0 = Lowest and 7 = Highest
 7. Pick a Trunk port (Tagged Ports). Trunk ports are typically the main connection for network traffic for each group. They are usually connected to a network switch, WAPs, etc.
 8. Pick the Access port(s) (Untagged Ports) associated with the vLan. Access Ports are typically used for Cameras, etc. If programming locally, ensure your laptop or PC is connected to one of these ports.
 9. Save Configuration.
 10. Repeat steps 2 – 9 to add another vLan.
- If unit is accidentally programmed incorrectly and you cannot get into the NetwaySP4BT series programming,

physically moving ports of your PC connected to the main switch to a correct port (when being programmed remotely), or, as a last resort, completing a factory reset locally and reprogramming the unit.

11. Advanced Port Settings:

Unknown VID Packet Forwarding Configuration:

On ingress unknown VID, Forward to a fixed set of ports. By default no forwarding is set.

Configuration on Ingress Untagged Traffic:

Trunk Port action for ingress UNTAGGED packets. By default do not drop packets.

Keep Tag on Egress:

Select if you want ACCESS Port to keep the vLan tag when sending egress packets.

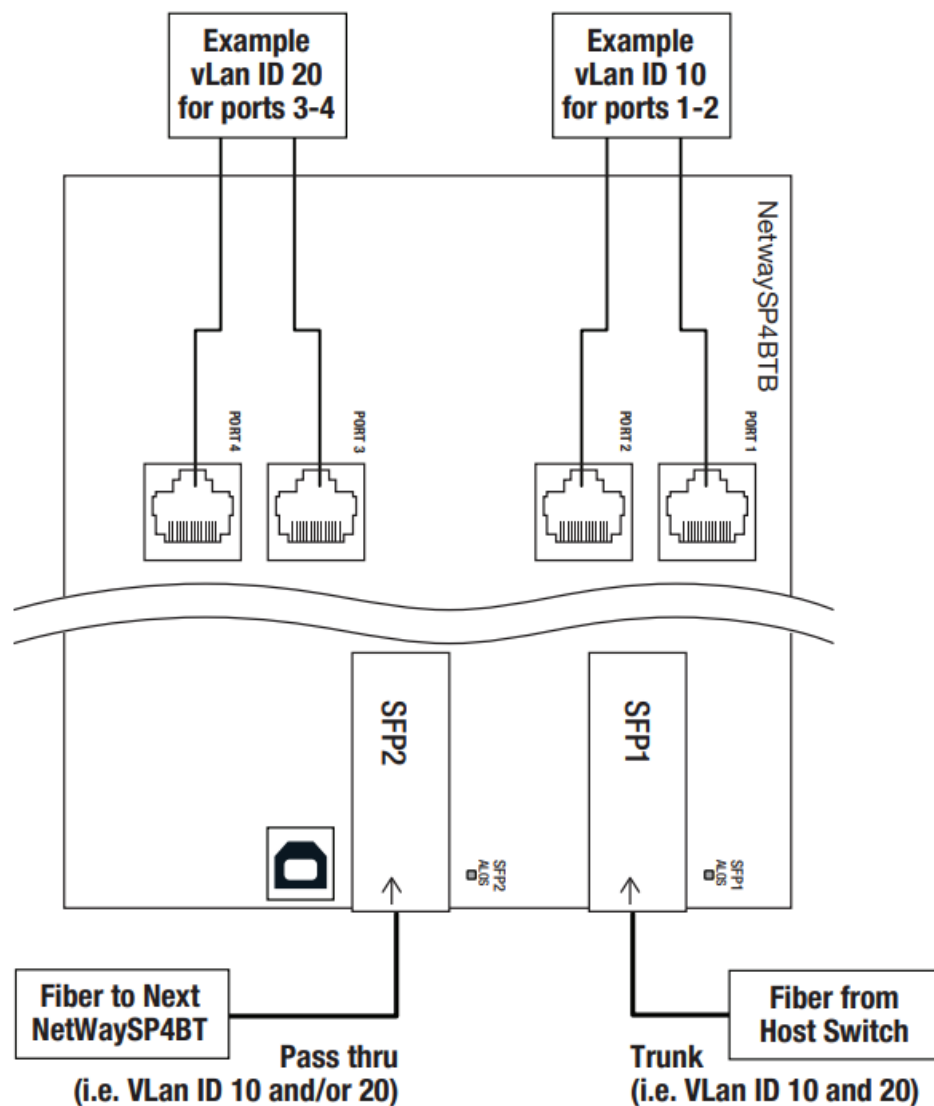
By default tags are stripped.

Preferred VLAN Forwarding:

For ACCESS Ports that belong to more than one vLan. Select preferred vLan to forward UNTAGGED ingress packets. By default preferred vLan is the last vLan created.

Typical Vlan Setup:

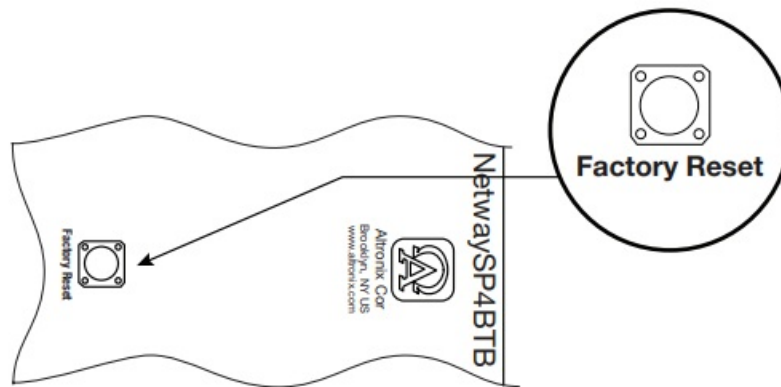
Fig. 2



Factory Reset Option:

1. Power the unit down. Allow approximately 30 seconds for the unit to power down completely.
2. Depress Factory Reset button on NetWaySP4BTB while reapplying power to the unit (Fig. 1a; Fig. 3).

Fig. 3



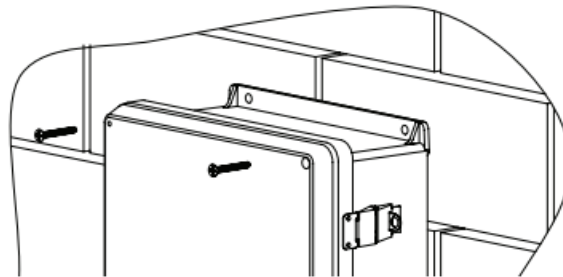
Continue holding the button until the LEDs on board go through the start up cycle, then release the button.

3. The unit returns to the original factory settings.

Wall Mount Installation

1. Place unit at desired location and secure with mounting screws (not included) (Fig. 4).

Fig. 4



Pole Mounting Using Optional Pole Mount Kit PMK1 (NetWaySP4BTWP3) or PMK2 (NetWaySP4BTWPX3):

This installation should be made by qualified service personnel. This product contains no serviceable parts. PMK1 and PMK2 outdoor pole mount kits are designed to simplify the installation of Altronix outdoor rated power supplies and accessories housed in models WP1, WP2, WP3 and WP4 NEMA rated enclosures. PMK1 and PMK2 can be mounted on 2" to 8" (50.8mm to 203.2mm) diameter round or 5" (127mm) square poles. Brackets are designed for use with the Wormgear Quick Release Straps (two included).

1. Thread one (1) wormgear quick release strap through the slots on the back of a mounting bracket (Fig. 5).
2. Once the desired height of the top Pole Mount bracket is achieved, tighten the straps down by sliding open end of the strap through the locking mechanism on the strap, then tighten the screw with flat head screwdriver or 5/16" hex socket driver (Fig. 6 and Fig. 8).

Fig. 6

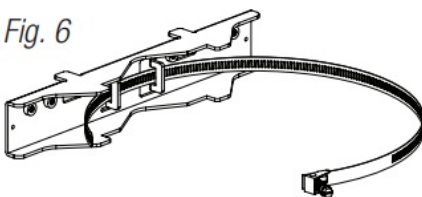


Fig. 7

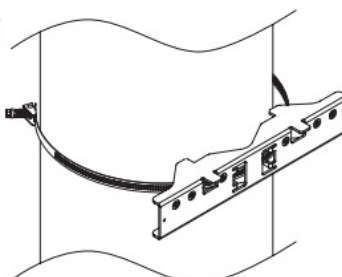
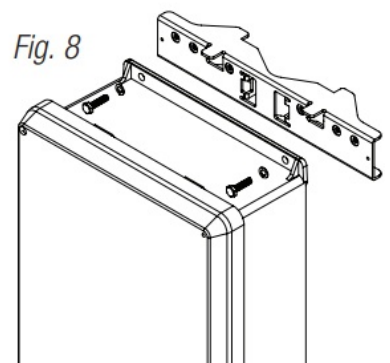


Fig. 8



3. Attach the bottom bracket to the enclosure by inserting bolts through the flange of the enclosure and into the bracket, tightening bolts with a 7/16" hex socket (Fig. 6).
4. Thread the second wormgear quick release strap through the slots on the back of the bottom mounting bracket (Fig. 8).
5. Mount enclosure onto the top bracket by inserting bolts through flange of the enclosure and into the bracket, tightening bolts with a 7/16" hex socket (Fig. 7).
6. Tighten the straps of the bottom bracket down by sliding the open end of the strap through the locking mechanism on the strap, then tighten screw with flat head screwdriver or 5/16" hex socket driver (Fig. 9).

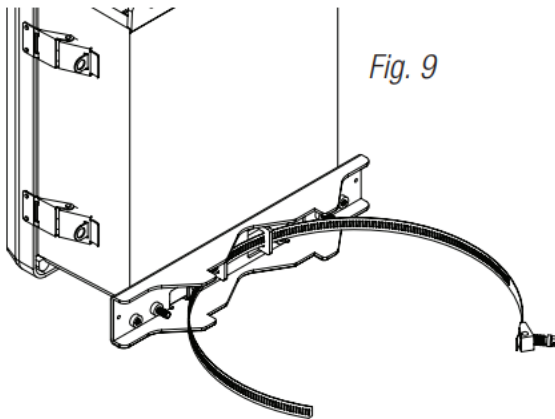
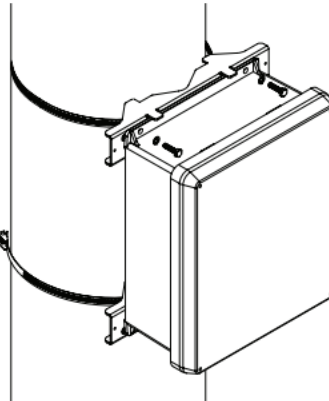
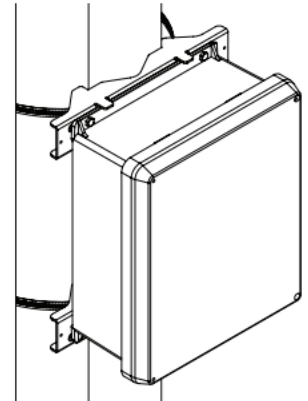


Fig. 9

*Fig. 10
2" to 8" (50.8mm to 203.2mm)
diameter round pole*



*Fig. 10a
5" (127mm) square pole*



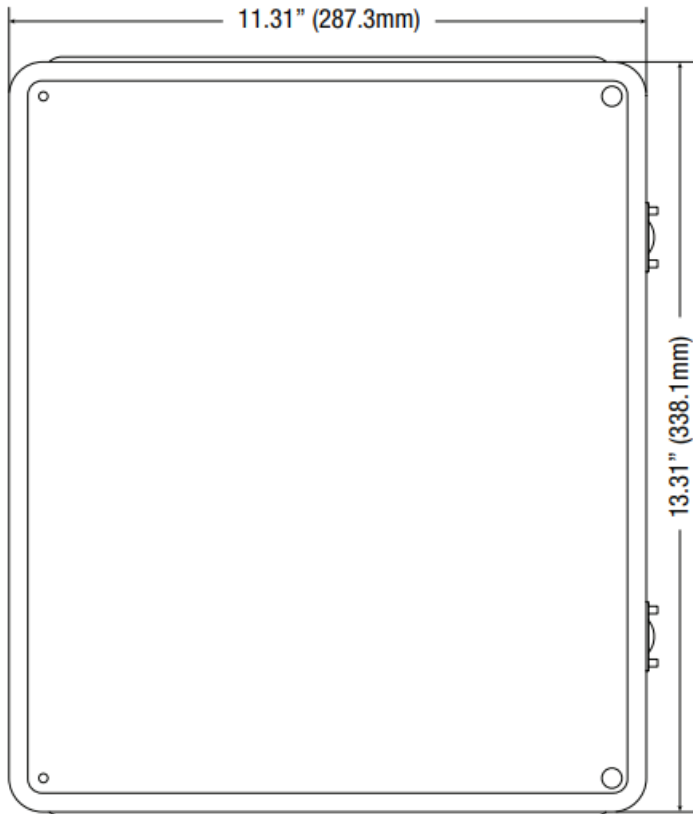
7. Clip excess straps.

Mechanical Drawing and Dimensions

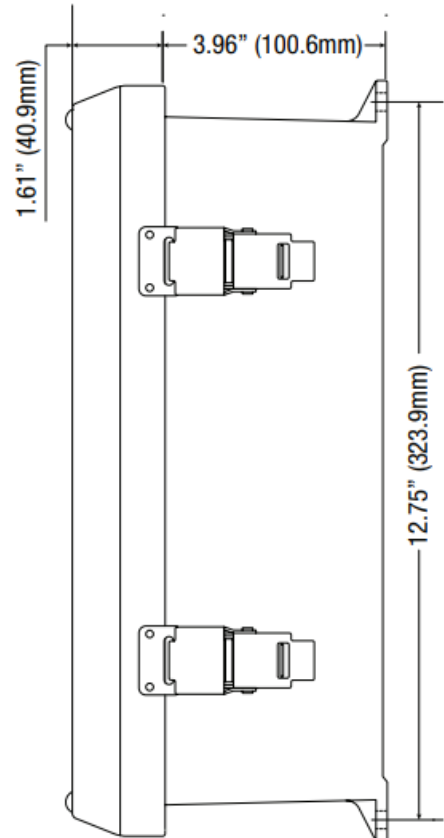
NetWaySP4BTWP3

Mechanical Drawing and Dimensions (H x W x D approx.): 13.31" x 11.31" x 5.59" (338.1mm x 287.3mm x 142mm)

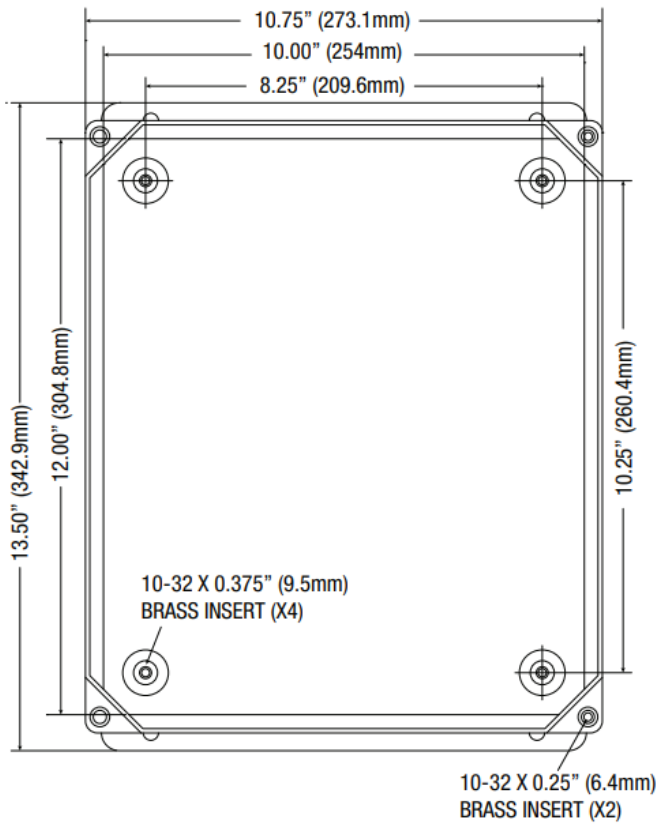
FRONT VIEW



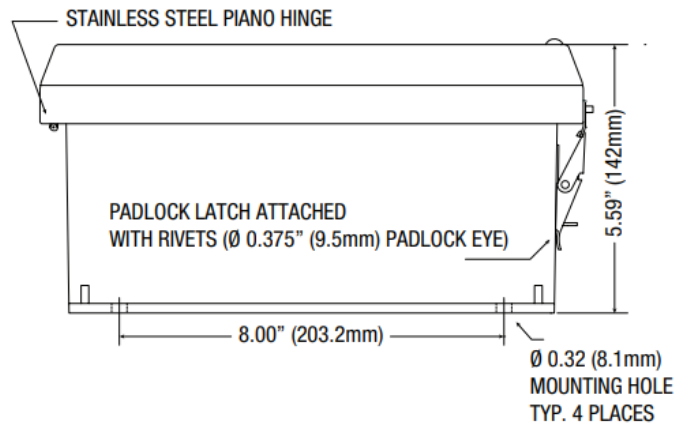
RIGHT SIDE VIEW



FRONT VIEW COVER REMOVED



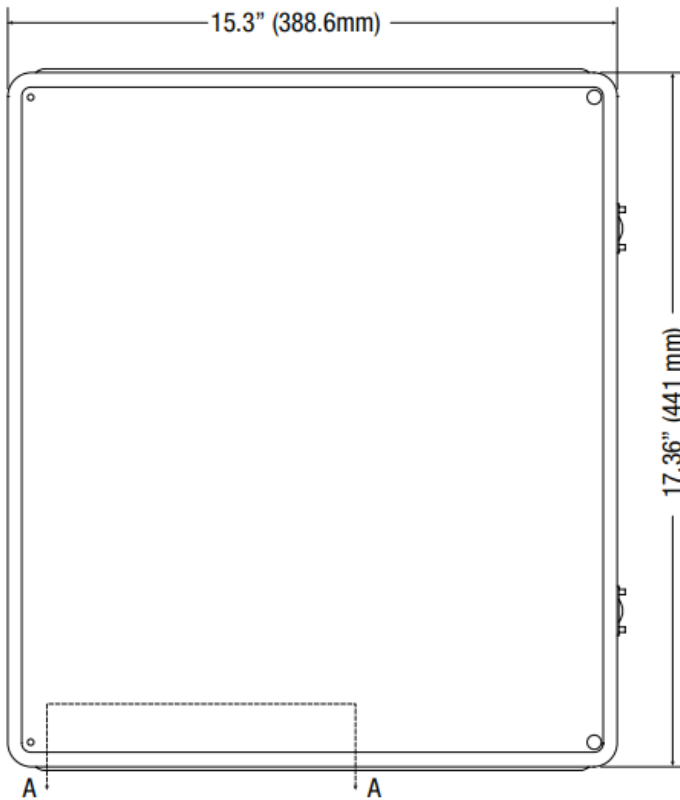
END VIEW



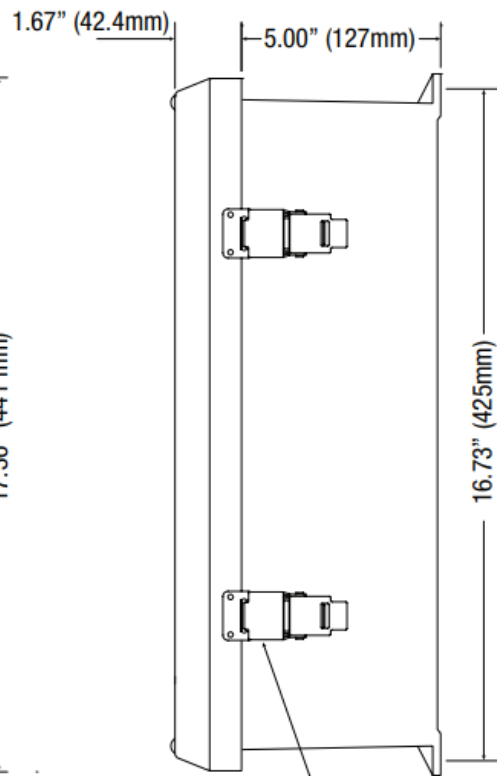
NetWaySP4BTWPX3

Mechanical Drawing and Dimensions (H x W x D approx.): 17.53" x 15.3" x 6.67" (445.3mm x 388.6mm x 169.4mm)

FRONT VIEW

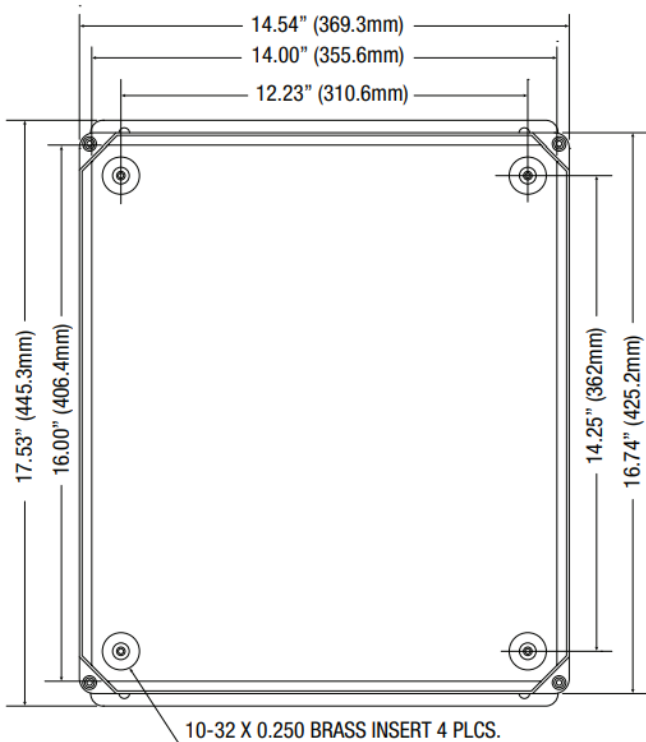


RIGHT SIDE VIEW

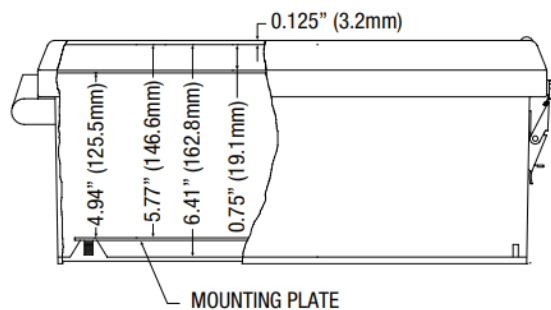


316 STAINLESS STEEL PADLOCK LATCH
ATTACHED WITH RIVETS. Ø 0.375 PADLOCK EYE

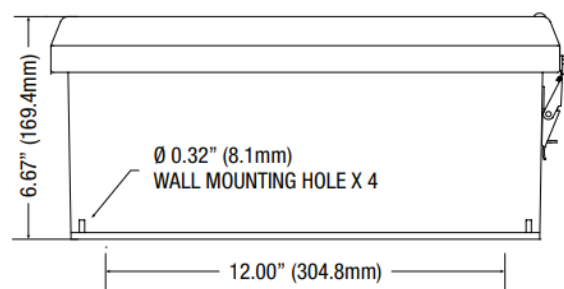
FRONT VIEW COVER REMOVED



SECTION A-A

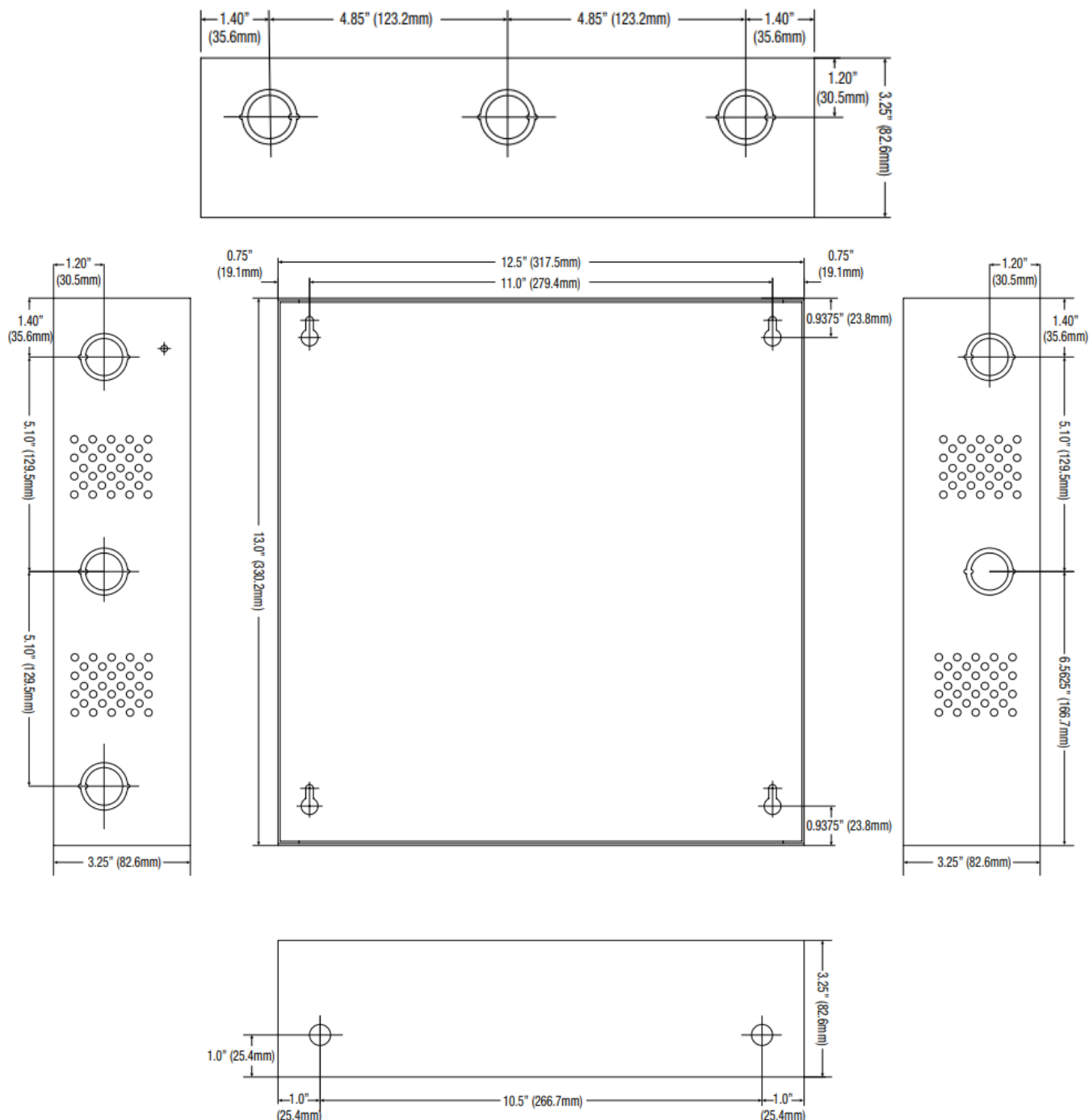


END VIEW



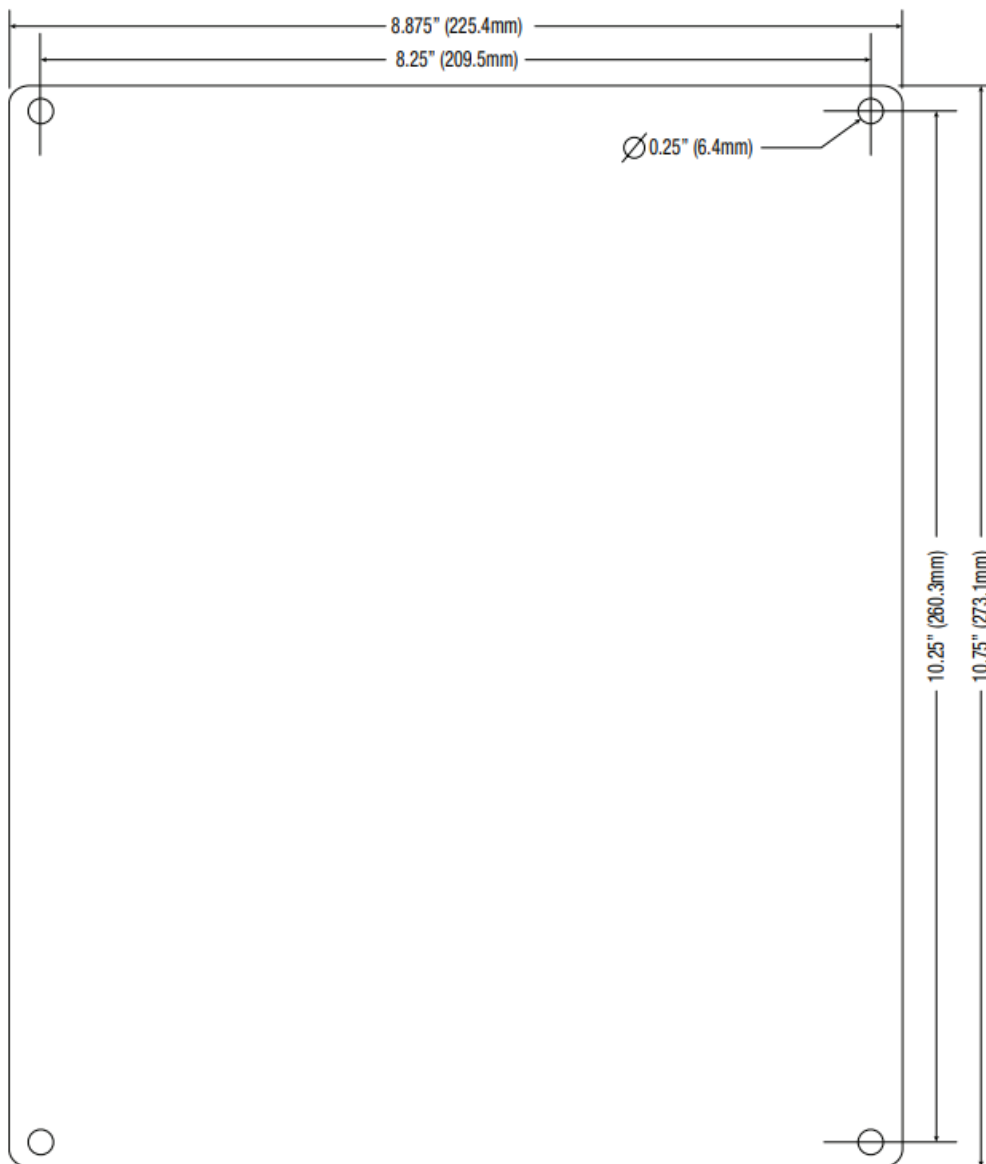
NetWaySP4BTX3

Mechanical Drawing and Dimensions (H x W x D approx.): 13.5" x 13" x 3.25" (342.9mm x 330.2mm x 82.6mm)



NetWaySP4BTPL

Mechanical Drawing and Dimensions (H x W x D approx.): 10.75" x 8.875" x 2.375" (273.1mm x 225.4mm x 60.3mm)



Altronix is not responsible for any typographical errors.

140 58th Street, Brooklyn, New York 11220 USA

phone: [718-567-8181](tel:718-567-8181)



fax: [718-567-9056](tel:718-567-9056)

website: www.altronix.com

e-mail: info@altronix.com

Lifetime Warranty IINetWaySP4BT3 Series I03X

Documents / Resources

 <p>NetwaySP4BT3 Series 4-port Hardened 360W 802.3bt 4PPoE Switches (Layer 2)</p> <p>Models include:</p> <table border="0"> <tr> <td>NetWaySP4BTWP3</td> <td>NetWaySP4BTX3</td> </tr> <tr> <td>NetWaySP4BTWPX3</td> <td>NetWaySP4BTPL3</td> </tr> </table> <p>Installation Guide</p> <p>CE </p>	NetWaySP4BTWP3	NetWaySP4BTX3	NetWaySP4BTWPX3	NetWaySP4BTPL3	<p>Altronix NetWaySP4BT3 Series 4 Port Hardened 360W 802.3bt 4PPoE Switches [pdf] Instal lation Guide</p> <p>NetWaySP4BTWP3, NetWaySP4BTX3, NetWaySP4BTWPX3, NetWaySP4BTPL3, NetWaySP4 BT3 Series 4 Port Hardened 360W 802.3bt 4PPoE Switches, NetWaySP4BT3 Series, 4 Port Ha rdened 360W 802.3bt 4PPoE Switches, Hardened 360W 802.3bt 4PPoE Switches, 360W 802.3 bt 4PPoE Switches, 802.3bt 4PPoE Switches, 4PPoE Switches, Switches</p>
NetWaySP4BTWP3	NetWaySP4BTX3				
NetWaySP4BTWPX3	NetWaySP4BTPL3				

References

- [User Manual](#)

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