

Fiber Solution

NetWay4EBT Series

4-port Hardened 802.3bt

4PPoE Switches

Models Include:

NetWay4EBTWP

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

NetWay4EBTWXP

- 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.

NetWay4EBTWPN

- 4-port Hardened 802.3bt 4PPoE Switch (uses external power supply).
- NEMA4/4X, IP66 rated Outdoor enclosure.

NetWay4EBTX

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

NetWay4EBTPL

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

NetWay4EBTB

- 4-port Hardened 802.3bt 4PPoE Switch
- Board Only.

Installation Guide



DOC#: NetWay4EBT Rev. 102720

More than just power.™

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

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Overview:

Altronix NetWay4EBT Series Hardened 802.3bt 4PPoE Switches are equipped with one (1) 1Gb SFP port and four (4) POE IEEE802.3af/3at/3bt PoE ports rated at 90W each, limited to total power of the power supply employed. Embedded LINQ Technology enables monitoring, control, and reporting from anywhere over the network.

Features:

Agency Listings:

- CE European Conformity.

Input:

- **NetWay4EBTWP/NetWay4EBTX/NetWay4EBTPL:**
115VAC, 60Hz, 1.8A or 230VAC, 50/60Hz, 1A.
- **NetWay4EBTB/NetWay4EBTWPN:**
48-56V UL Listed ITE power supply.

Power Output:

- Four (4) 10/100/1000 Mbps Ethernet ports rated at 90W each (240W total power).
- **NetWay4EBTB/NetWay4EBTWPN:**
Four (4) 10/100/1000 Mbps Ethernet ports rated at 90W each (total power dependant on power supply).
- IEEE 802.3af, 802.3at, 802.3bt compliant.

SFP Ports:

- One (1) Gigabit SFP port.

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.

Battery Backup

(NetWay4EBTWP/NetWay4EBTWPN*/

NetWay4EBTX/NetWay4EBTPL):

- 24VDC charging circuit charges LiFePO_4 (Lithium Iron Phosphate) or 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 Base-T/active LEDs for each port.
- ALOS LED indicates fiber connection for SFP port.
- Heartbeat LED indicates proper operation of the unit.

VLAN:

- Multiple management VLAN assignment.
- 802.1Q Tagged VLAN.
- Up to 10 VLAN groups. ID Range 2-4095.

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:

NetWay4EBTB:

- Dimensions (L x W x D approx.):
6.25" x 4.5" x 1.25" (158.8mm x 114.3mm x 31.8mm).

NetWay4EBTPL:

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

NetWay4EBTWPN:

- NEMA4/4X, IP66 Rated enclosure for outdoor use.
- Accommodates sealed lead acid or gel type or LiFePO_4 (Lithium Iron Phosphate) 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).

NetWay4EBTWP, NetWay4EBTWPN:

- 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).

NetWay4EBTX:

- NEMA1 Rated enclosure for indoor use
- 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.

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:

NetWay4EBTB/NetWay4EBTPL:

1. Mount board/backplane in the desired location/enclosure with hardware supplied.
2. **NetWay4EBTB:** Connect 56VDC/280W max power source to terminal marked [+] and [-].

Note: For proper earth ground connections on NetWay4EBTB fasten metal spacers (provided) to threaded studs at indicated board mounting holes (*shown on the right*). This is recommended for better environmental immunity.

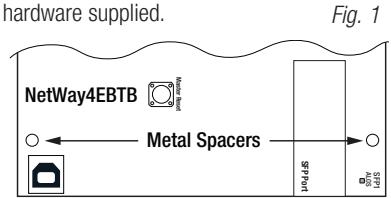


Fig. 1

NetWay4EBTWP/NetWay4EBTWXP/NetWay4EBTWPN:

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 (*Enclosure Dimensions*, pg. 12, 13):

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. 6*, pg. 11).

Pole Mount: Refer to *Fig. 7 - 11*, pg. 11.

5. Mount backplane in enclosure with hardware.

NetWay4EBTX:

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 (*Enclosure Dimensions*, pg. 14). Secure enclosure to earth ground.

Power Connection:

NetWay4EBTWP, NetWay4EBTWXP, NetWay4EBTX, and NetWay4EBTPL:

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*, pg. 7). 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. 2*, pg. 6).
2. Insert SFP module into port marked [SFP], then connect cable to the SFP module on NetWay4EBTB to the corresponding input of an SFP switch (*Fig. 2*, pg. 6).

Battery Backup (NetWay4EBTWP/NetWay4EBTWXP*/NetWay4EBTX/NetWay4EBTPL):

1. Connect two (2) 12VDC batteries wired in series or one (1) 24V battery to terminals marked [- BAT +] (*Fig. 3*, pg. 7), carefully observing polarity. When use of stand-by batteries is desired, they can be LiFePO₄ (lithium iron phosphate), lead acid or gel type.

Note: When batteries are not used, a loss of AC will result in the loss of output voltage.

Note: When using two 12V LiFePO₄ (lithium iron phosphate) batteries, check with manufacturer specifications that batteries can be connected in series.

For outdoor battery backup, battery enclosure must have sufficient ventilation.

Recommended Altronix Power Sourcing Equipment:

NetWaySP4P	Ethernet to Fiber Media Converter with Integral Power Supply/Charger. Four (4) 56VDC non power-limited outputs up to 120W max. full power per port (240W total power). Four (4) 1Gb SFP ports.
NetWaySP4PX	Ethernet to Fiber Media Converter with Integral Power Supply/Charger. Four (4) 56VDC non power-limited outputs up to 120W max. full power per port (480W total power). Four (4) 1Gb SFP ports.
NetWaySP4P2	Ethernet to Fiber Media Converter with Integral Power-Limited Power Supply/Charger. Four (4) 56VDC power-limited outputs up to 60W max. full power per port (240W total power). Four (4) 1Gb SFP ports.
WayPoint562	High Current Outdoor Power Supply/Charger. 56VDC/120W output. Filtered and electronically regulated output. Short circuit and thermal overload protection.
Vertiline563	EIA 19" 1U Rack Mountable Dual Independent Power Supply/Charger. 56VDC @ 3A each output. Filtered and electronically regulated output. Short circuit and thermal overload protection.
PoE240	Power Supply/Charger Board. 56VDC/240W output. Filtered and electronically regulated output. Short circuit and thermal overload protection.

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	Four (4) 10/100/1000 Mbps Ethernet ports rated at 90W each. IEEE 802.3af, 802.3at, 802.3bt compliant. One (1) Gigabit SFP Port.		
Input Power Requirements	NetWay4EBTWP/NetWay4EBTWXP/NetWay4EBTX/NetWay4EBTPL: 115VAC, 60Hz, 1.8A or 230VAC, 50/60Hz, 1A. NetWay4EBTB/NetWay4EBTWP: 48-56V UL Listed ITE power supply.		
Environmental Conditions	Operating Ambient Temperature: 240W: – 30°C to 55°C (– 22°F to 131°F) 180W: – 30°C to 65°C (– 22°F to 149°F) 150W: – 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
	NetWay4EBTWP	10.5 lb. (4.76 kg)	11.9 lb. (5.4 kg)
	NetWay4EBTWXP	15 lb. (6.8 kg)	17.5 lb. (7.9kg)
	NetWay4EBTWPN	9.5 lb. (4.3 kg)	10.9 lb. (4.9 kg)
	NetWay4EBTX	6.65 lb. (3.02 kg)	7.55 lb. (3.42kg)
	NetWay4EBTPL	2.6 lb. (1.18 kg)	4.0 lb. (1.81kg)
	NetWay4EBTB	0.4 lb. (0.18 kg)	0.75 lb. (0.34 kg)

Fig. 2 - NetWay4EBTB/NetWay4EBTPN – Typical Application with Hybrid Cable



Power Requirements	Power Cabling	Maximum Distance (ft./m)	Power Requirements	Power Cabling	Maximum Distance (ft./m)
15W	12/2	11,162' / 3403m	15W	16/2	4,415' / 1,346m
30W	12/2	5,581' / 1702m	30W	16/2	2,207' / 673m
45W	12/2	3,767' / 1,148m	45W	16/2	1,490' / 454m
60W	12/2	2,739' / 835m	60W	16/2	1,083' / 330m
75W	12/2	2,249' / 686m	75W	16/2	889' / 271m
90W	12/2	1,872' / 571m	90W	16/2	740' / 226m
105W	12/2	1,607' / 490m	105W	16/2	635' / 194m
120W	12/2	1,408' / 429m	120W	16/2	557' / 170m

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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 Netway4EBT. The default address of the Netway4EBT 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 Netway4EBT 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 Netway4EBT will appear. Click on the tab labeled **Network Settings**.
This will open the Network Setting screen. In this screen the MAC Address of the Netway4EBT 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 Netway4EBT 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 Netway4EBT 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 Netway4EBT 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 Netway4EBT will be set in the DHCP mode. The IP address will be assigned by the router when the Netway4EBT 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 Netway4EBT 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

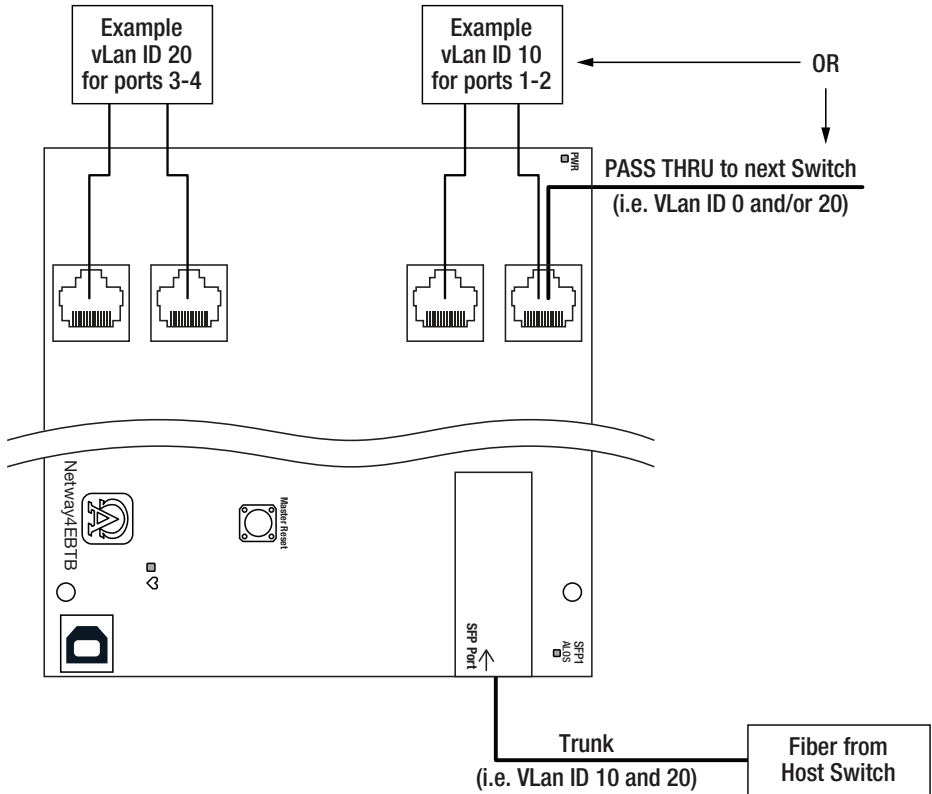
VLans (Virtual Local Area Networks) are a subnetwork that allow for the grouping together of devices for improved network traffic as well as providing higher security by allowing greater control over which devices have access to each other. It is important to plan how you will setup your devices for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

Configuring vLan on the Altronix Netway4EBT Series 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 Netway4EBT 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. 4

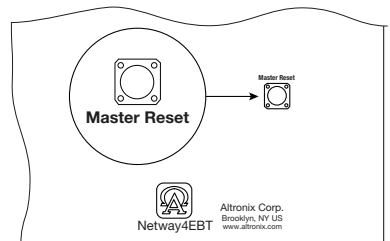


Any Ethernet port can be used for VLAN Pass Thru

Factory Reset Option:

1. Power the unit down. Allow approximately 30 seconds for the unit to power down completely.
2. Depress Master Reset button on Netway4EBTB while reapplying power to the unit (Fig. 3a, pg. 7, Fig. 5 pg. 10). 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.

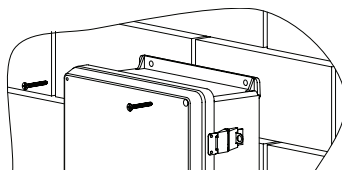
Fig. 5



Wall Mount Installation:

- 1- Place unit at desired location and secure with mounting screws *(not included)* (Fig. 6, pg. 11).

Fig. 6



Pole Mounting Using Optional Pole Mount Kit PMK1 (NetWay4EBTWP) or PMK2 (NetWay4EBTWPX):

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. 7, pg. 11).
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. 8, pg. 11 and Fig. 10, pg. 11).

Fig. 7

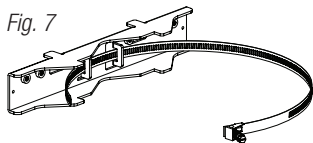


Fig. 8

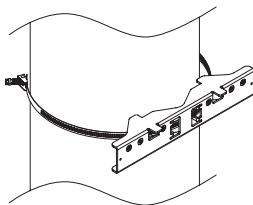
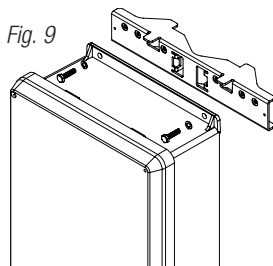


Fig. 9



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. 9, pg. 11).
4. Thread the second wormgear quick release strap through the slots on the back of the bottom mounting bracket (Fig. 10, pg. 11).
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. 8, pg. 11).
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. 8, pg. 11).
7. Clip excess straps.

Fig. 10

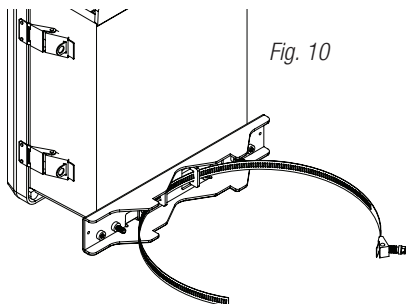


Fig. 11
2" to 8" (50.8mm to 203.2mm)
diameter round pole

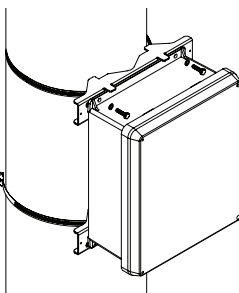
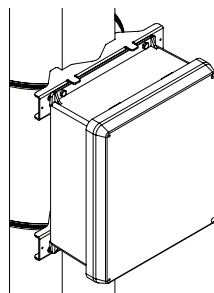


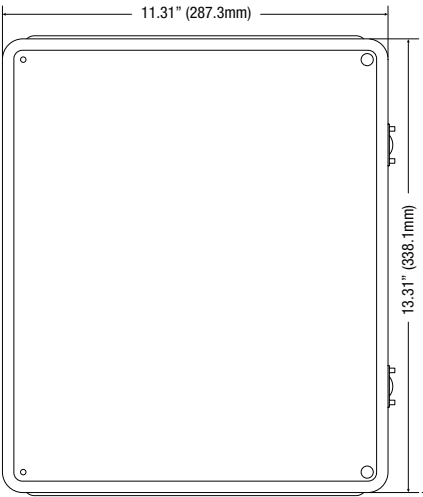
Fig. 11a
5" (127mm) square pole



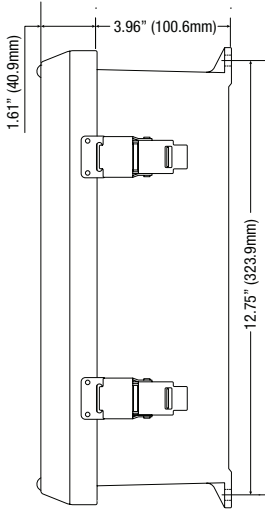
NetWay4EBTWP/NetWay4EBTWPN
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13.31" x 11.31" x 5.59" (338.1mm x 287.3mm x 142mm)

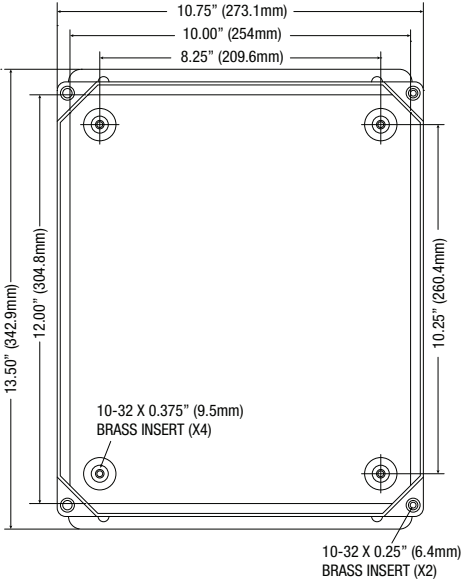
FRONT VIEW



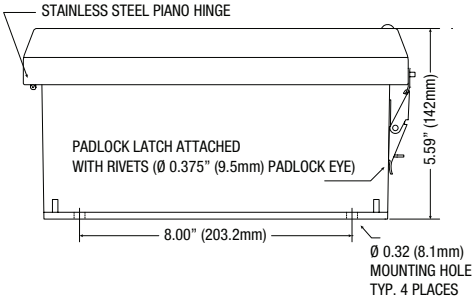
RIGHT SIDE VIEW



FRONT VIEW COVER REMOVED



END VIEW

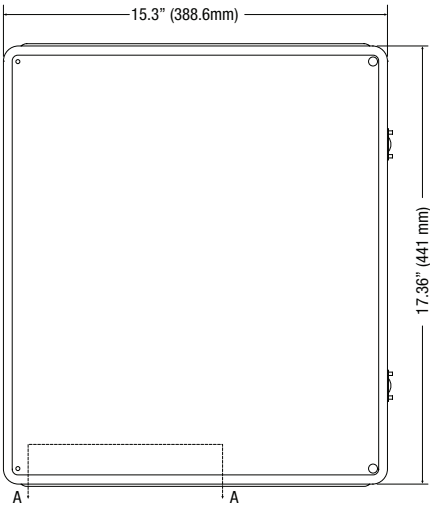


NetWay4EBTWPX

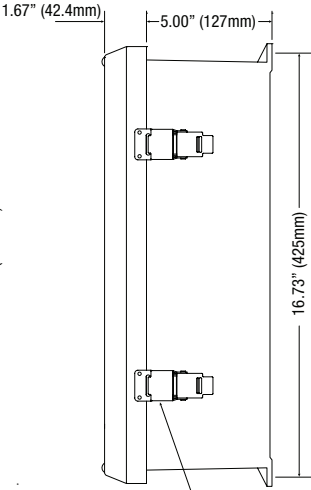
Mechanical Drawing and Dimensions (H x W x D approx.):

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

FRONT VIEW

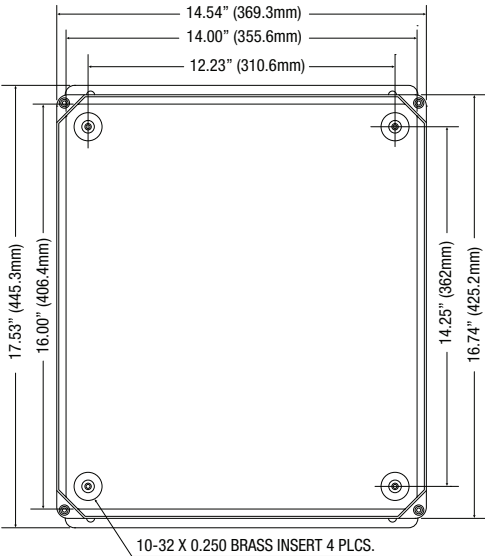


RIGHT SIDE VIEW



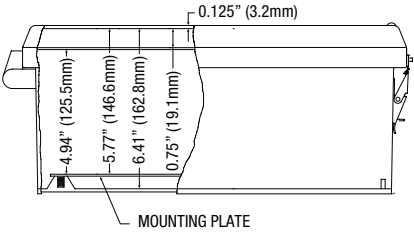
316 STAINLESS STEEL PADLOCK LATCH
ATTACHED WITH RIVETS. Ø 0.375 PADLOCK EYE

FRONT VIEW COVER REMOVED

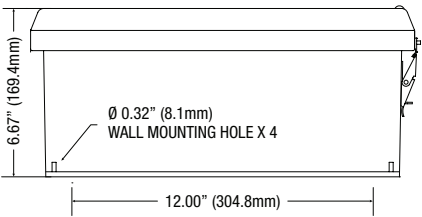


10-32 X 0.250 BRASS INSERT 4 PLCS.

SECTION A-A



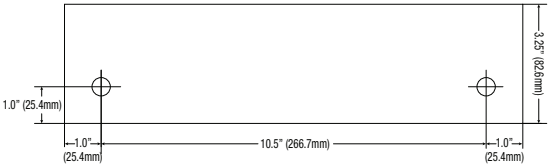
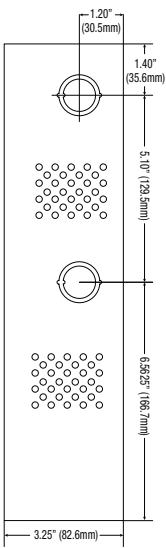
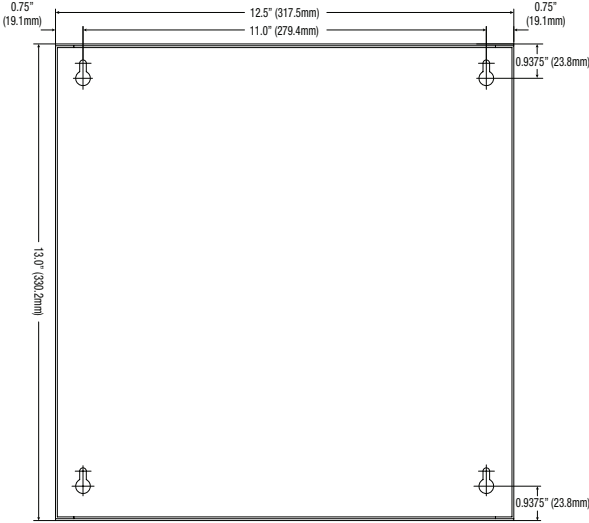
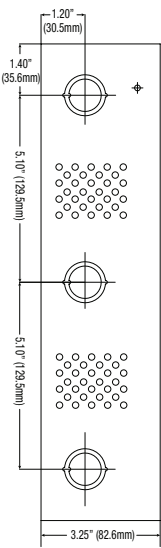
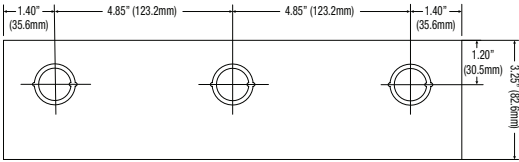
END VIEW



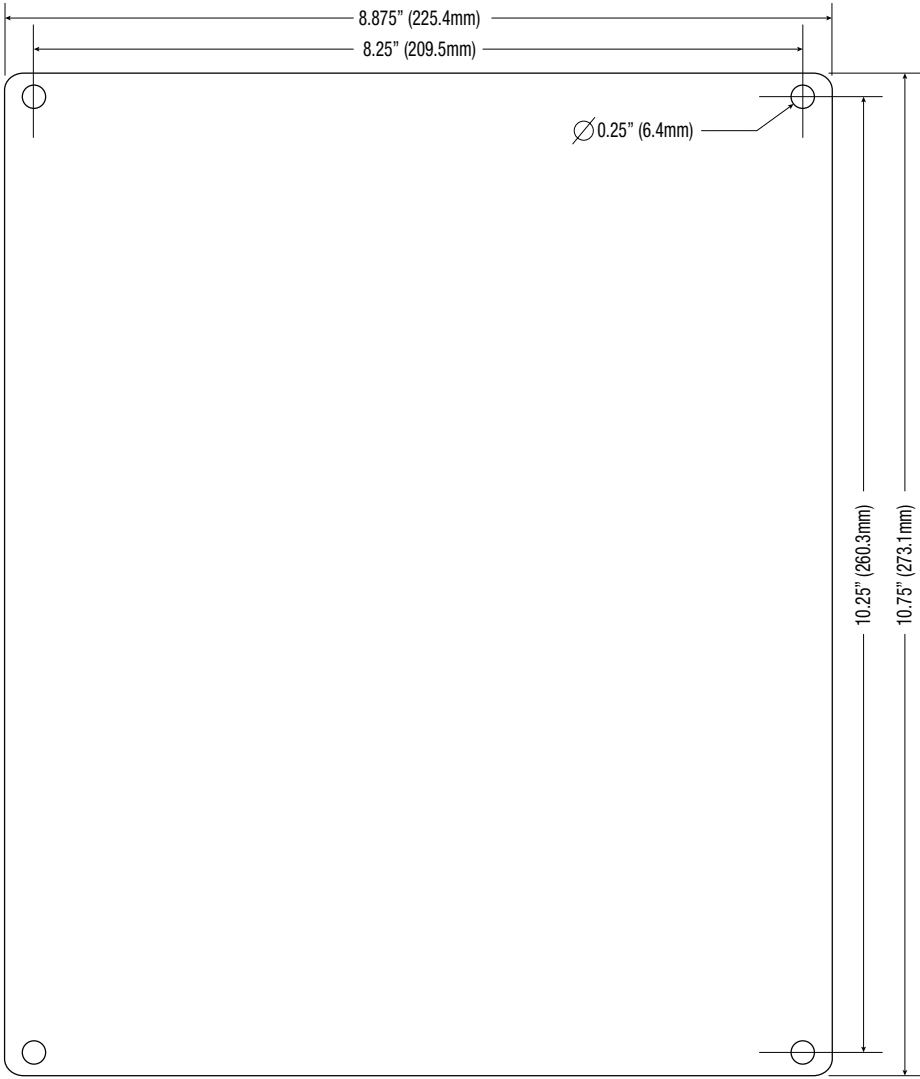
NetWay4EBTX

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)



NetWay4EBTPL
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)



Notes:

Altronix is not responsible for any typographical errors.

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