



Altronix NetWay4BT NetWay BT Series PoE Managed Midspan Solution Installation Guide

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Altronix NetWay4BT NetWay BT Series PoE Managed Midspan Solution



Overview

Altronix NetWay4BT/NetWay8BT Networked Managed Midspan provides PoE/PoE+/Hi PoE (up to 90W) power per port, and pass data at 10/100/1000 Mbps at distances up to 100m. Features also include an integral battery charger for applications requiring backup and embedded LINQ Technology to monitor, control, and report power and diagnostics from anywhere.

Features

Agency Listings:

- UL 60950-1 Information Technology

Equipment.

- UL 294 Access Control Systems.
ANSI/UL 294 7th Ed. Access Control
Performance Levels: Destructive Attack – I;
Endurance – II; Line Security – I; Stand-by Power – II.
- **CE European Conformity.**

Input:

- 115VAC, 60Hz, 5.5A or 230VAC, 50/60Hz, 3.0A.

Power:

- Unit supplies PoE output voltage (55V) and up to 90W max. full power per port.
NetWay4BT total power: 360W/6.6A.
NetWay8BT total power: 480W/8.8A.
- IEEE 802.3af, IEEE, 802.3at and IEEE802.3bt compliant.
- Short circuit protection.

Ethernet:

- Four (4) or eight (8) ports for cameras/edge devices over ethernet.
- Wire type: 4-pair CAT5e and higher.
- Speed: 10/100/1000 Mbps.

Functions:

- Auto detection and protection of legacy non-PoE cameras/edge devices.

Battery Backup:

- Built-in battery charger (optional rack mount battery enclosure – RE2).

- Automatic switchover to stand-by battery when AC fails.

LINQ Technology:

- SSL (Secure Socket Layer) security encryption.
- User level security.
- Built-in IP management allows for remote camera reset and monitoring.
- Provides local and/or remote access to critical information via LAN/WAN
- Email and Windows Dashboard Alert notifications report real-time diagnostics.
- Event log tracks history.

Accessories:

RE2:

- Rack Mount Battery Enclosure accommodates up to four (4) 12VDC/7AH batteries.

Installation Instructions

Wiring methods shall be in accordance with the National Electrical Code (ANSI/NFPA70), local codes, and the authorities having jurisdiction. NetWay4BT/NetWay8BT unit is not intended to be connected to outside plant leads. These products are for indoor use only and must be installed within the protected premises. If battery bracket is removed, then the unit must be installed in a restricted access area (Fig. 1b, pg. 3).

Fig. 1a

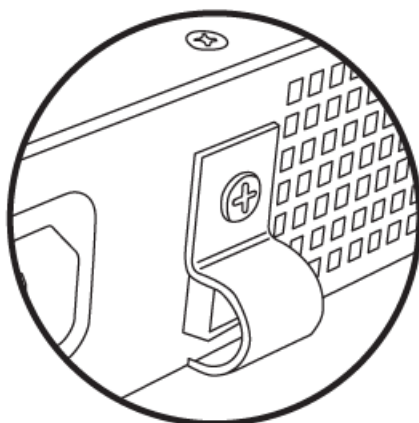
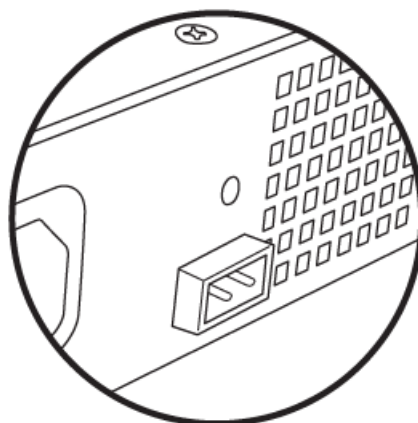


Fig. 1b



1. Attach mounting brackets to NetWay4BT/NetWay8BT unit for rack or wall mount installation (Fig. 5 or 6, pg. 8). Affix rubber pads to NetWay4BT/NetWay8BT for shelf installation (Fig. 7, pg. 8).
2. Secure the unit in a rack or on a wall, or place unit on a shelf as desired.

Note: The following factors should be taken into consideration when installing these rack mount units:

- The unit is to be installed in a space where the maximum ambient temperature does not exceed 104°F (40°C).
 - Take care to ensure that there is sufficient air flow around the unit and that obstructions do not impede it.
 - When mounting units in a rack, take care to avoid uneven loading which can cause a hazardous condition.
3. Plug the grounded AC line cord (included) into the IEC 320 connector of the NetWay4BT/NetWay8BT unit (Fig. 2g, pg. 4). Plug unit into a reliable earth grounded socket. When using multiple units, the sum of the individual

name plate ratings should not exceed the supply circuit rating.

Do not connect to a receptacle controlled by a switch.

4. Connect structured cables from port marked [IN] on NetWay4BT/NetWay8BT to the corresponding inputs of an ethernet switch or video server

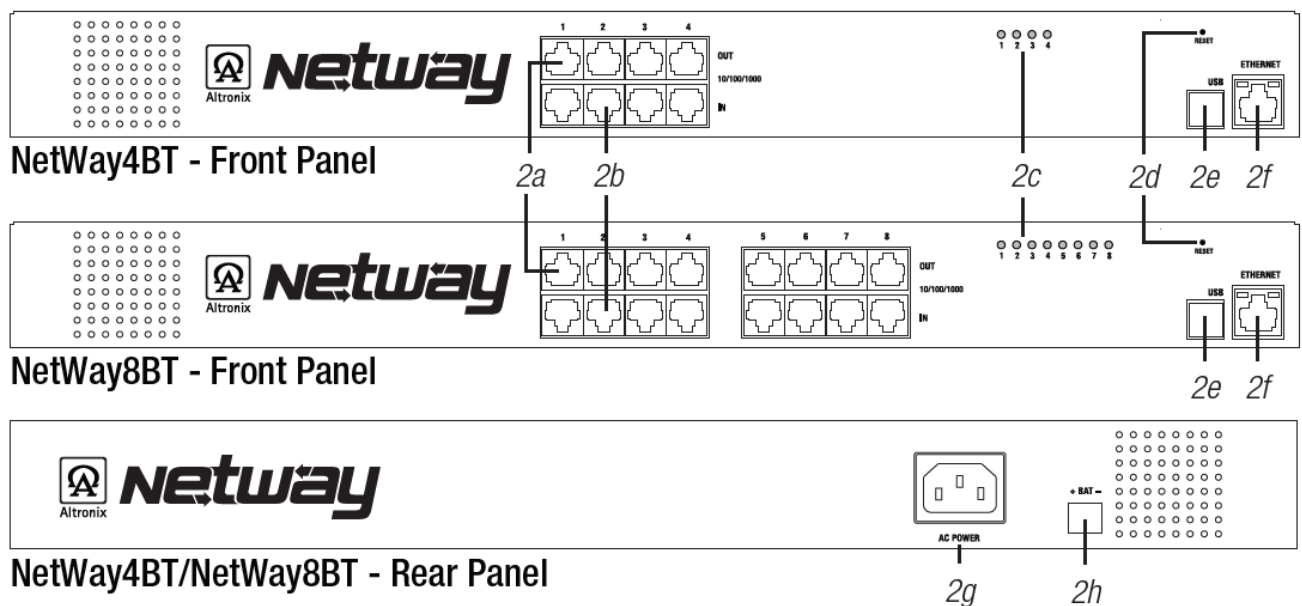
(Fig. 2b, pg. 4, Fig. 3, pg. 6).

Note: All cabling and wire must be UL Listed and/or Recognized wire suitable for their application.

5. Connect structured cables from port marked [OUT] on NetWay4BT/NetWay8BT to PoE compliant camera/edge devices (Fig. 2a, pg. 4, Fig. 3, pg. 6).
6. When the use of stand-by batteries is required, they must be sealed lead acid or gel type. Connect four (4) 12VDC batteries in series to terminals marked [+ BAT -] (Fig. 2h, pg. 4), carefully observing polarity. Note: When batteries are not used a loss of AC will result in a loss of output voltage.

See Stand-by Specifications Table (pg. 4).

Fig. 2



- 2a OUT1-4 (NetWay4BT), OUT 1-8 (NetWay8BT): Structured cable to PoE compliant cameras/edge devices.
- 2b IN 1-4 (NetWay4BT), IN 1-8 (NetWay8BT): Structured cable to ethernet switch or video server. 2c LED(s) 1-4 (NetWay4BT), 1-8 (NetWay8BT): Port status LEDs.
- 2d Reset: Restores unit to factory settings.
- 2e USB Port: To setup IP settings locally.
- 2f Ethernet Port: Used to manage/monitor outputs and setup Network IP setting.
- 2g IEC 320 Connector: 115/230VAC (grounded line cord included).
- 2h Built-in battery charger: Charges stand-by batteries for applications requiring back-up.

Batteries can be installed in any UL, U/R rated enclosure, such as Altronix rack mount battery enclosure RE2 (Fig. 3, pg. 5).

Stand-by Specifications

(total current shown):

Output	30 Minutes Stand-by Current
48V/7AH Battery	6.7A
48V/12AH Battery	8.3A

*48V backup uses 4 (four) 12V batteries in series.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of an insulated DANGEROUS VOLTAGE within the product's enclosure that may be of sufficient magnitude to constitute an electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

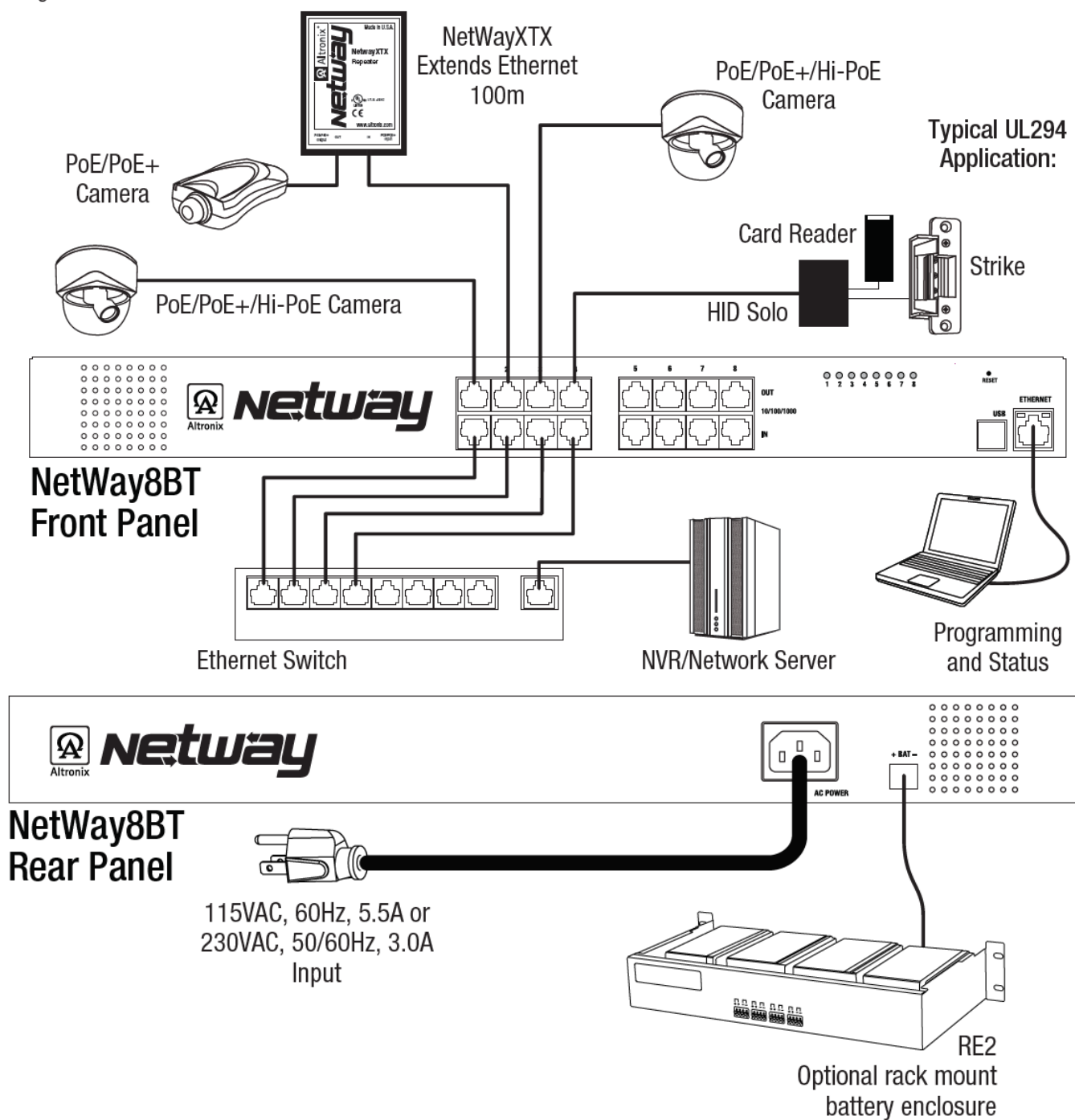
CAUTION: To reduce the risk of electric shock do not open enclosure. There are no user serviceable parts inside. Refer servicing to qualified service personnel.

Technical Specifications

Parameter	Description	
No. of Ports	NetWay4BT: Four (4) PoE/PoE+/Hi PoE Ports (10/100/1000 Mbps). NetWay8BT: Eight (8) PoE/PoE+/Hi PoE Ports (10/100/1000 Mbps).	
Output Power	NetWay4BT: 360W total NetWay8BT: 480W	
Input Power Requirements	115VAC, 60Hz, 5.5A or 230VAC, 50/60Hz, 3.0A.	
Indicators	Port Status LEDs.	
Environmental Conditions	Operating Ambient Temperature: 0°C to 49°C (32°F to 120°F). Relative Humidity: 85%, +/- 5%. Storage Temperature: – 20°C to 70°C (– 4°F to 158°F). Operating Altitude: Up to 2,000m.	
Weights (approx.)	NetWay4BT	NetWay8BT
	Product Weight: 6.06 lb. (2.75 kg). Shipping Weight: 8.0 lb. (3.63 kg).	Product Weight: 6.06 lb. (2.75 kg). Shipping Weight: 8.0 lb. (3.63 kg).

NetWay8BT Typical Applications

Fig. 3



Cable Type, Total Device Power, Data and Power Distance

Cable Type	Total Power Consumption	Max. Data Distance	Max. Power Distance
CAT5e	15W	100m	846m
CAT5e	30W	100m	423m
CAT5e	60W	100m	211m
CAT5e	75W	100m	185m
CAT5e	90W	100m	158m

Note: Higher gauge wiring will allow for longer distances.

Configuring NetWay4BT/NetWay8BT 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 NetWay4BT/NetWay8BT. The default address of the NetWay8BT is 192.168.168.168,
 2. Connect one end of the network cable to the network jack on the NetWay4BT/NetWay8BT 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 NetWay4BT/NetWay8BT will appear. Click on the tab labeled Network Settings. This will open the Network Setting screen. In this screen the MAC Address of the NetWay4BT/NetWay8BT module will be found along with the Network Settings and Email Settings.

Network Settings

In the IP Address Method field select the method that the IP Address for the NetWay4BT/NetWay8BT will be obtained (STATIC or DHCP), then follow the appropriate steps.

Static:

1. IP Address: Enter the IP address assigned to the NetWay4BT/NetWay8BT by the network administrator.

2. Subnet Mask: Enter the Subnet of the network.
3. 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)
4. HTTP Port: Enter the HTTP port number assigned to the NetWay4BT/NetWay8BT 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.
5. HTTPS Port: Enter the HTTPS port number assigned to the NetWay4BT/NetWay8BT 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.
6. 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:

1. 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 NetWay4BT/NetWay8BT will be set in the DHCP mode. The IP address will be assigned by the router when the NetWay4BT/NetWay8BT is connected to the network. It is recommended to have the assigned IP Address reserved to ensure continued access (see the network administrator).
2. Subnet Mask: When operating in DHCP, the router will assign the subnet mask values.
3. Gateway: Enter the TCP/IP gateway of the network access point (router) being used.
4. HTTP Port: Enter the HTTP port number assigned to the NetWay8BT 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.

- **HTTPS Port:** Enter the HTTPS port number assigned to the NetWay4BT/NetWay8BT 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.
- 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.

Mounting Options

Rack Mount Installation

1. Remove and discard factory installed screws from both sides of rack chassis (Fig. 5a).
2. Install mounting brackets (A) on the left and right side of rack chassis using the four (4) flat head screws (B) (included) (Fig. 5b).
3. Place unit into desired EIA 19” rack position and secure with mounting screws (not included) (Fig. 5c).

Fig. 5

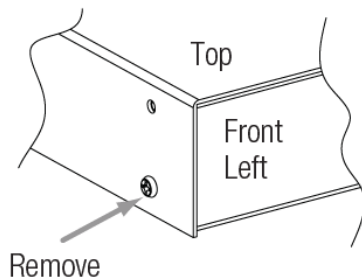


Fig. 5a

Fig. 5b

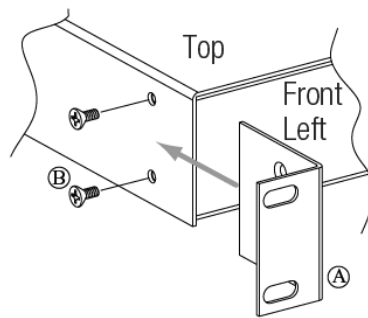
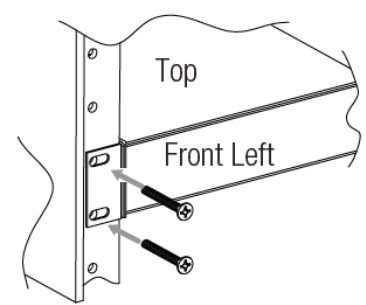


Fig. 5c



Wall Mount Installation

1. Install mounting brackets (A) on the left and right side of rack chassis using four (4) flat head screws (B) (included) (Fig. 6a).
2. Place unit at desired location and secure with #6 size screws or larger (not included) (Fig. 6b). Caution: It is necessary to make sure mounting screws are securely fastened to a beam when installing the unit vertically.

Fig. 6

Fig. 6a

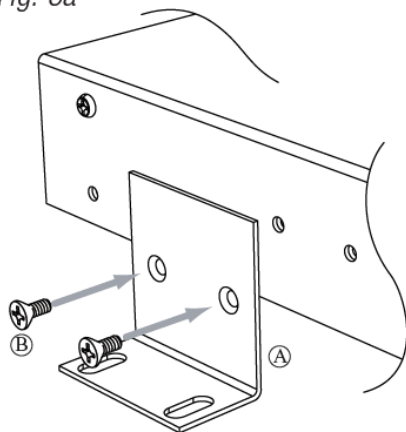
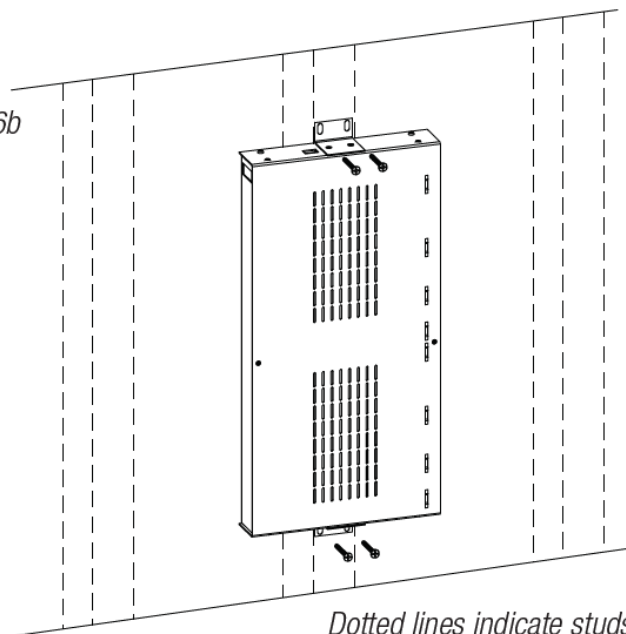


Fig. 6b

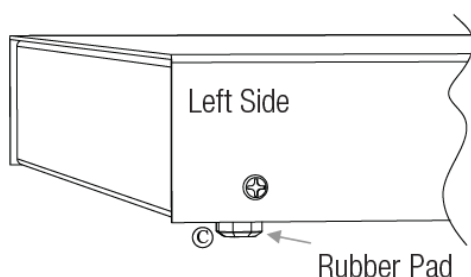


Dotted lines indicate studs behind sheetrock.

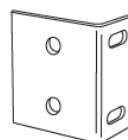
Shelf Installation

1. Position and affix rubber pads (C) (included) at each corner on the bottom of the unit (Fig. 7).
2. Place unit in desired location.

Fig. 7



Mounting Hardware (Included):



Ⓐ Two (2) mounting brackets




Ⓑ Six (6) flat head screws for mounting brackets.



Ⓒ Four (4) rubber pads.

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website: www.altronix.com | e-mail: info@altronix.com | Lifetime Warranty

Documents / Resources

 <p>NetWay BT Series PoE Managed Midspan Solution for Standard Network Infrastructure</p> <p>Models Include:</p> <p>NetWay4BT 4-Port Managed Midspan Injector -300W total power</p> <p>NetWay8BT 8-Port Managed Midspan Injector -400W total power</p> <p>Installation Guide</p> <p>Altronix</p>	<p>Altronix NetWay4BT NetWay BT Series PoE Managed Midspan Solution [pdf] Installation Guide</p> <p>NetWay4BT, NetWay BT Series PoE Managed Midspan Solution, NetWay4BT NetWay BT Series PoE Managed Midspan Solution, Managed Midspan Solution, Midspan Solution</p>
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References

-  [Altronix Home](#)
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Manuals+.