



Power over the Ethernet

# NetWay8GL

PoE Managed Midspan Solution for  
Standard Network Infrastructure

- 8-Port Managed Hi-PoE Midspan Injector
- 240W total power

## Installation Guide



More than just power.™

DOC#: NETGL Rev. 110719

Installing Company: \_\_\_\_\_ Service Rep. Name: \_\_\_\_\_

Address: \_\_\_\_\_ Phone #: \_\_\_\_\_

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## Overview:

Altronix NetWay8GL Networked Managed Midspan provides PoE/PoE+/Hi PoE (up to 60W) power per port and passes 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:

### Input:

- 115VAC, 60Hz, 3.25A or 230VAC, 50/60Hz, 2.0A.

### Power:

- Unit supplies PoE output voltage (55V) and up to 60W max. full power per port.
- **Total power:** 240W.
- IEEE 802.3af and IEEE 802.3at compliant.
- Short circuit protection.

### Ethernet:

- 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:

#### NetWayXT:

- PoE repeater module extends data range 100m.

#### NetWayXTX:

- PoE/PoE+ repeater module extends data range 100m.

#### 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.

NetWay8GL 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*).

1. Attach mounting brackets to NetWay8GL unit for rack or wall mount installation (*Fig. 5 or 6, pg. 8*). Affix rubber pads to NetWay8GL 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:

- a. The unit is to be installed in a space where the maximum ambient temperature does not exceed 104°F (40°C).
  - b. Take care to ensure that there is sufficient air flow around the unit and that obstructions do not impede it.
  - c. 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 NetWay8GL 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 NetWay8GL to the corresponding inputs of an ethernet switch or video server (*Fig. 2b, pg. 4, Fig. 4, 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 NetWay8GL to PoE compliant camera/edge devices (*Fig. 2a, pg. 4, Fig. 4, 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.

Fig. 1a

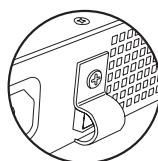


Fig. 1b

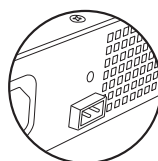
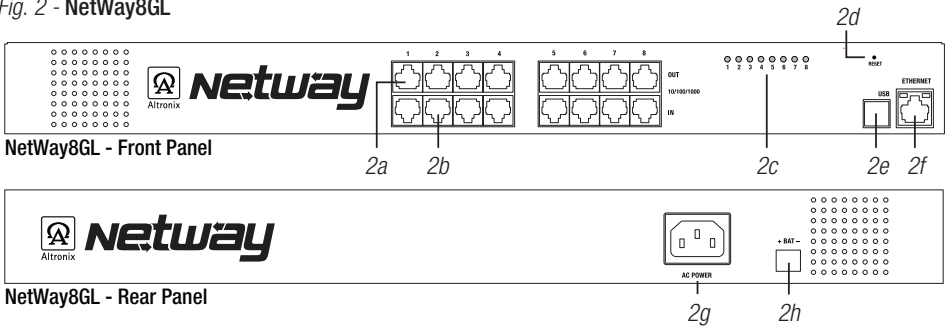


Fig. 2 - NetWay8GL



- 2a OUT 1-8: Structured cable to PoE compliant cameras/edge devices.
- 2b IN 1-8: Structured cable to ethernet switch or video server.
- 2c LED(s) 1-8: Port status LEDs.
- 2d Reset: Restores unit to factory settings.
- 2e USB Port: For future use.
- 2f Ethernet: For future use.
- 2g IEC 320 Connector: 115/230VAC (grounded line cord included).
- 2h Built-in battery charger: Charges stand-by batteries for applications requiring back-up, (optional rack mount battery enclosure available - RE2)

### Technical Specifications:

Parameter	Description
No. of Ports	Eight (8) PoE/PoE+/Hi PoE Ports (10/100/1000 Mbps).
Output Power	240W total.
Input Power Requirements	115VAC, 60Hz, 3.25A or 230VAC, 50/60Hz, 2.0A.
Indicators	Port Status LEDs.
Environmental Conditions	Operating Ambient Temperature: - 20°C to 40°C (- 4°F to 104°F). Relative Humidity: 85%, +/- 5%. Storage Temperature: - 20°C to 70°C (- 4°F to 158°F). Operating Altitude: - 304.8 to 3,048m.



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.

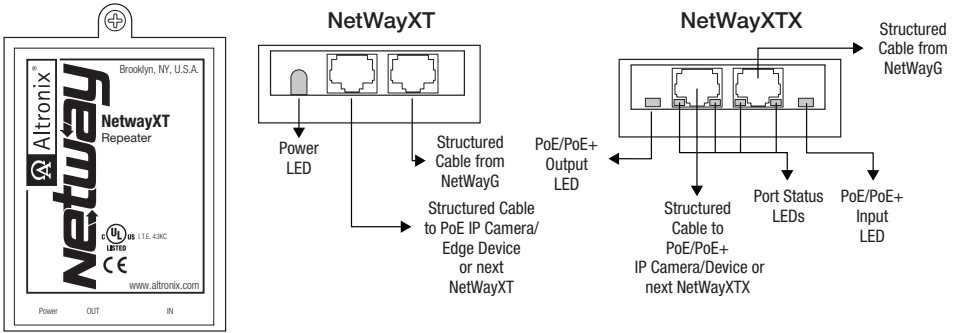


**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**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.

Fig. 3 - NetWayXT/NetWayXTX



NetWayXT and NetWayXTX will work if the Midspan is set for 15W or 30W, but not 60W.

### Installing a NetWayXT/NetWayXTX Repeater Module:

NetWayXT will work only with PoE devices. NetWayXTX will work with PoE/PoE+ devices.

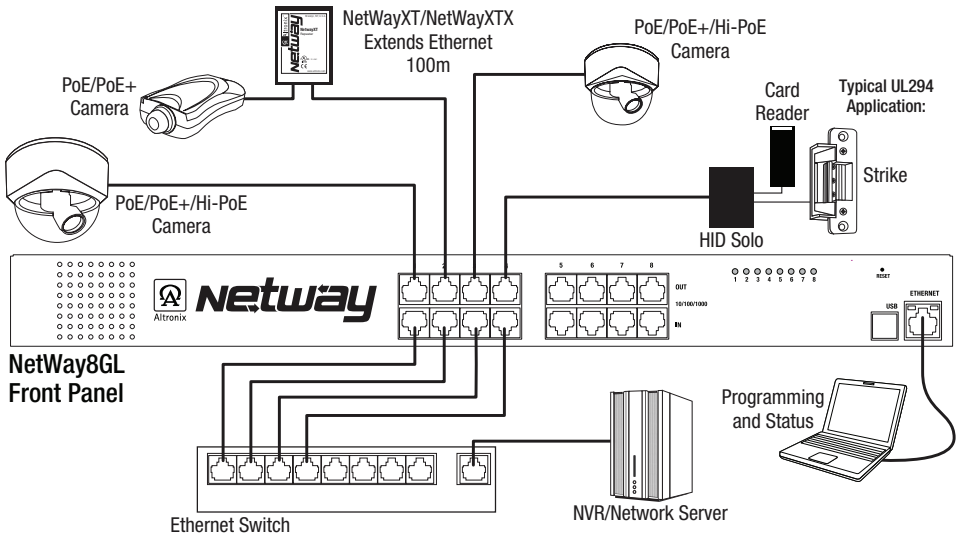
1. Mount NetWayXT/NetWayXTX in desired location utilizing the mounting hole (Fig. 3, pg. 5). Use a proper fastener and/or wall anchor when securing NetWayXT/NetWayXTX to the wall.
2. Connect structured cable from port marked [OUT] on NetWay8GL to port marked [IN] on the NetWayXT/NetWayXTX (Fig. 3, pg. 5).
3. Connect structured cable from port marked [OUT] on NetWayXT/NetWayXTX to the PoE/PoE+ camera/edge device or next NetWayXT/NetWayXTX repeater (Fig. 3, pg. 5).
4. Port status LEDs will illuminate on NetWayXT/NetWayXTX indicating the port is operational (refer to LED Definitions, pg. 5).
5. Power LED will illuminate indicating 12VDC output.

### Port LED Definitions for NetWayXT and NetWayXTX Repeaters:

Status	NetWayXT		NetWayXTX		
	Green LED	Yellow LED	PoE/PoE+ Output LED	PoE/PoE+ Input LED	Yellow LED
OFF	Indicates it is connected as 10Base-T or no link.	Indicates no link.	No PoE/PoE+ Output	No PoE/PoE+ Input	Indicates no link.
ON	Indicates it is connected as 100Base-TX.	Indicates a link.	Normal PoE/PoE+ Output	PoE/PoE+ Input	Indicates a link.
Blinking	—	Indicates activity.	—	—	Indicates activity.

## NetWay8GL Typical Applications:

Fig. 4



## Configuring NetWay8GL for Network Connection

Please be sure to visit [altronix.com](http://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 NetWay8GL. The default address of the NetWay8GL is 192.168.168.168, E.I. 192.168.168.200.
2. Connect one end of the network cable to the network jack on the NetWay8GL 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 NetWay8GL will appear. Click on the tab labeled **Network Settings**. This will open the Network Setting screen. In this screen the MAC Address of the NetWay8GL 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 NetWay8GL will be obtained (STATIC or DHCP), then follow the appropriate steps.

### Static:

- a. IP Address: Enter the IP address assigned to the NetWay8GL 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 NetWay8GL 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 NetWay8GL 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 NetWay8GL will be set in the DHCP mode. The IP address will be assigned by the router when the NetWay8GL 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 NetWay8GL module by the network administrator to allow remote access and monitoring. The default inbound port setting is 80. HTTP is not encrypted and insecure. 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 insecure. 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 NetWay8GL 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**.

## **Heartbeat Timer:**

The heartbeat timer will send a trap message indicating that the NetWay8GL is still connected and communicating.

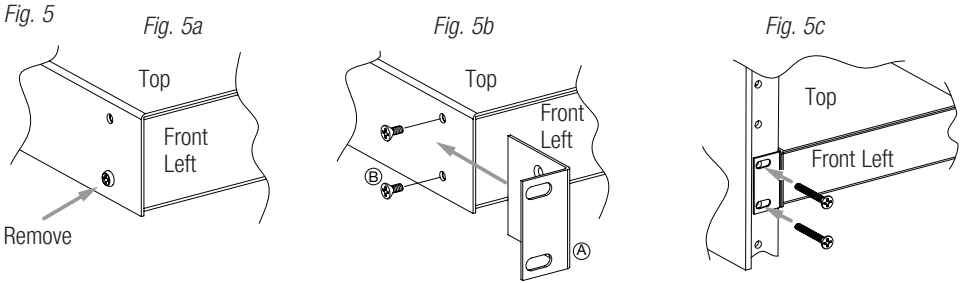
## **Setting the Heartbeat Timer:**

1. Click the button labeled **Heartbeat Timer Setting**.
2. Select the desired time between heartbeat messaging in the Days, Hours, Minutes and Seconds in corresponding fields.
3. Click the button labeled **Submit** to save setting.

## Mounting Options:

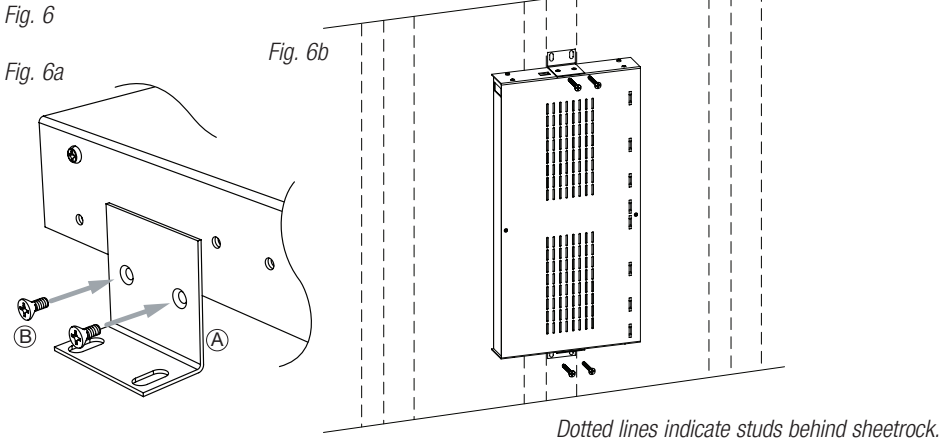
### Rack Mount Installation

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).



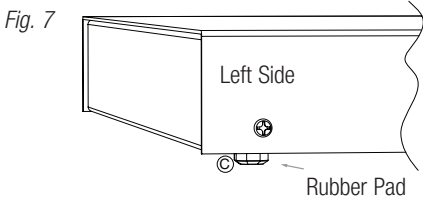
### Wall Mount Installation

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.

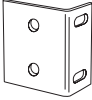




### Shelf Installation

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.



#### Mounting Hardware (Included):

-  (A) Two (2) mounting brackets
-  (B) Six (6) flat head screws for mounting brackets.
-  (C) Four (4) rubber pads.

Altronix is not responsible for any typographical errors.

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 IINetWay8GL H24U

