



Power over the Ethernet

NetWay4ES Series

PoE Solutions

Models Include:

NetWay4ES

- 4-Port PoE/PoE+ Switch

NetWay4ESK

- Kit includes: NetWay4ES and NetWay1D
(60W Midspan Injector, 115VAC / 230VAC input)

Installation Guide



I.T.E. 43KC

Rev. 120913



More than just power.™

Installing Company: _____ Service Rep. Name: _____

Address: _____ Phone #: _____

Table of Contents:

Overview	pg. 3
Features	pg. 3
Installation Instructions	pg. 3
Technical Specifications	pg. 4
Typical Applications	
<i>NetWay4ES powered by NetWay midspan/endspan.</i>	pg. 5
<i>NetWay4ES powered by NetWay1D midspan injector.</i>	pg. 6
NetWay4ES Chassis Mechanical Drawing & Dimensions	pg. 8
Shelf Installation	pg. 8

Overview:

Altronix NetWay4ES is a 4-Port PoE/PoE+ switch which is designed for installation at the IDF (Intermediate Distribution Frame). NetWay4ES allows for system expansion by accommodating up to four (4) IP cameras/devices over a single CAT-5e or higher structured cable. Power up to 60W is provided by NetWay1D midspan injector (included in NetWay4ESK Kit), or 30W by NetWay midspan/endspan, or any IEEE 802.3at standard midspan/endspan typically located at the MDF (Main Distribution Frame).

Features:

Agency Listings:

- **UL 60950-1** Information Technology Equipment.
- **CE** European Conformity.

Input:

- Up to 60W is provided by NetWay1D midspan injector or 30W by NetWay midspan/endspan or any IEEE 802.3at standard midspan/endspan.

Power Output:

- Maximum power per port: PoE+ (30W).
- Total maximum power:
NetWay4ES - PoE+ (30W).
NetWay4ESK - 60W from NetWay1D.

Ethernet:

- Connectivity: RJ45, auto-crossover.
- Wire type: 4-pair CAT5e or higher structured cable.
- Distance: up to 100m.
- Speed: 10/100BaseT, half/full duplex, auto negotiation.

LED Indicators:

- Yellow - IP Link status,
Green - 10/100Base-T/active.

Environmental:

- **Operating Ambient Temperature:**
NetWay1D: 30W: -30°C to 50°C (-22°F to 122°F).
60W: -30°C to 40°C (-22°F to 104°F).
NetWay4ES: 60W: -40°C to 75°C (-40°F to 167°F).
- **Storage Temperature:**
NetWay1D: -30°C to 85°C (-22°F to 185°F).
NetWay4ES: -40°C to 75°C (-40°F to 167°F).
- Humidity: 20 to 85%, non-condensing.

Applications:

- Remote installation and powering of a 4-port PoE+ switch.
Star expansion of remote node to 4-PoE+ cameras/devices.

Mechanical:

- Dimensions (H x W x D approx.):
NetWay1D: 1.75" x 4.125" x 7.25"
(44.4mm x 104.8mm x 184.1mm).
NetWay4ES: 1.7" x 5.23" x 8.42"
(43.18mm x 132.8mm x 213.9mm).

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. Wiring should be UL Listed and/or Recognized wire suitable for the application. Midspan or endspan and NetWay4ES/NetWay4ESK is not intended to be connected to outside plant leads and should be installed indoors within the protected premises. The midspan or endspan injector and NetWay4ES/NetWay4ESK are intended for indoor use only.

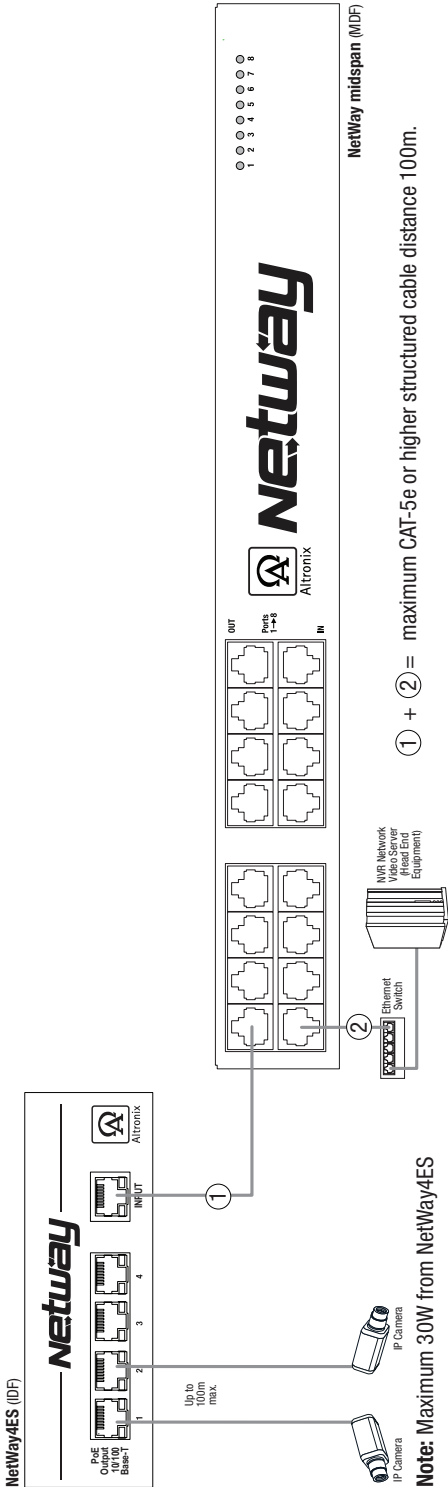
1. **Midspan or Endspan** installation: Please refer to the corresponding installation instructions.
2. **NetWay1D** installation (*Fig. 1, pg. 4*):
 - a. Affix rubber pads to NetWay1D for shelf installation (*Fig. 4, pg. 8*).
 - b. Plug the grounded AC line cord (included) into the IEC 320 connector of the NetWay1D unit. 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.
Note: Do not connect to a receptacle controlled by a switch.
 - c. Connect structured cable from UL Listed ethernet switch or video server to RJ45 jack marked [IN] on NetWay1D (*Fig. 2, pg. 6*).
3. **NetWay4ES** installation:
 - a. Mounting: Affix rubber pads to NetWay4ES for shelf installation (*Fig. 4, pg. 8*).
 - b. Connect structured cable from NetWay4ES to RJ45 jack marked [OUT] to NetWay1D (*Fig. 2, pg. 6*) or midspan or endspan (*Fig. 1, pg. 5*).
 - c. PoE ON LED of the NetWay1D will illuminate indicating PoE device is turned on (*Fig. 2, pg. 6*).
 - d. Connect IP cameras/devices to RJ45 jacks marked [1-4 PoE Output 10/100BaseT] (*Figs. 1, 2, pgs. 5, 6*).

Technical Specifications:

Parameter	Description
Input Power Requirements	NetWay1D: 115VAC, 60Hz, 1.2A or 230VAC, 50/60Hz, 0.75A. NetWay4ES: Powered by NetWay1D.
Output	Maximum power per port: PoE+ (30W) Total maximum power: Dependent on power from midspan or endspan.
Indicators	NetWay1D: Red LED: PoE ON. Red LED: Power ON. NetWay1D and NetWay4ES: Yellow (RJ45 connector): On - Linked, Off - No Link, Blinking - Activity. Green (RJ45 connector): On - 100Base-TX, Off - 10Base-T.
Environmental Conditions	Operating Ambient Temperature (UL60950-1): NetWay1D: 30W: -30°C to 50°C (-22°F to 122°F). 60W: -30°C to 40°C (-22°F to 104°F). NetWay4ES: 60W: -40°C to 75°C (-40°F to 167°F). Relative humidity: 85%, +/- 5% Storage Temperature: NetWay1D: -30°C to 85°C (-22°F to 185°F). NetWay4ES: -40°C to 75°C (-40°F to 167°F). Operating Altitude: 304.8 to 2,000m (-1,000 to 6,561.679 ft.).
Regulatory Compliance	UL 60950-1 Information Technology Equipment. CE European Conformity
Weights (approx.)	Product: 2.9 lb. (1.32 kg) Shipping: 3.9 lb. (1.77 kg).

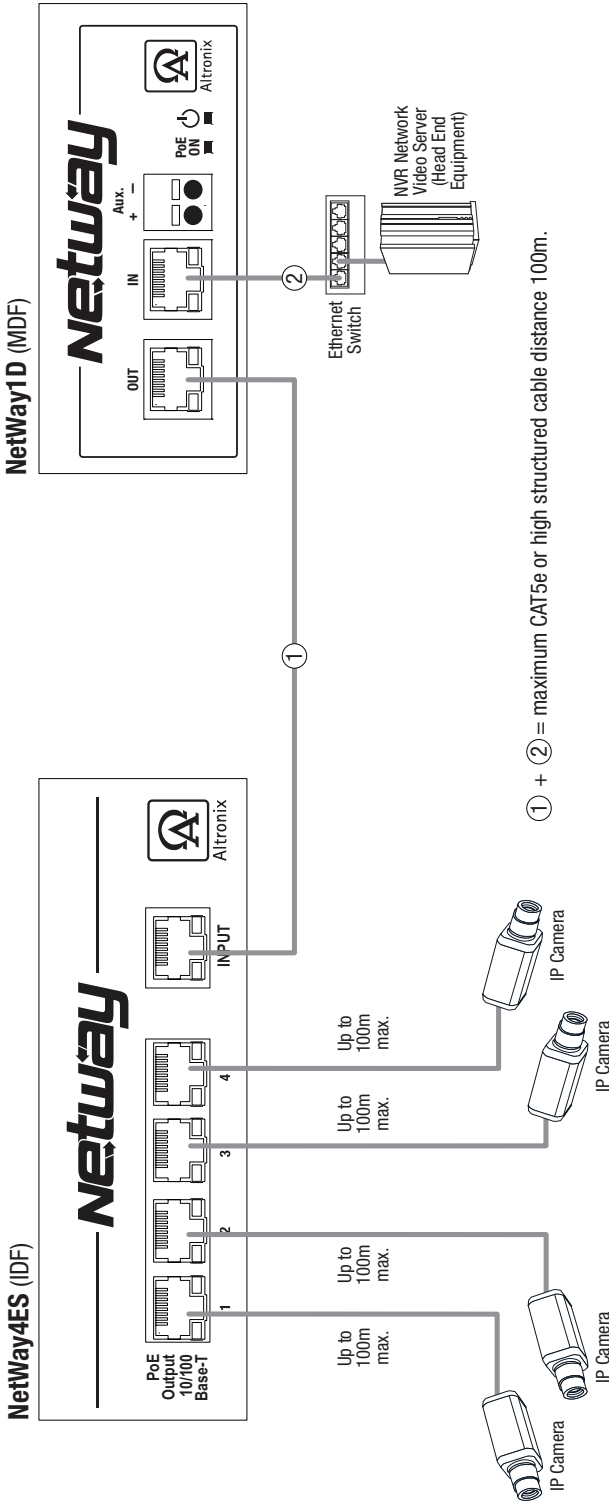
Typical Applications:

Fig. 1 - NetWay4ES powered by NetWay midspan/endspan



Typical Application:

Fig. 2 - NetWay4ESK (Kit), NetWay4ES powered by NetWay1D midspan injector.



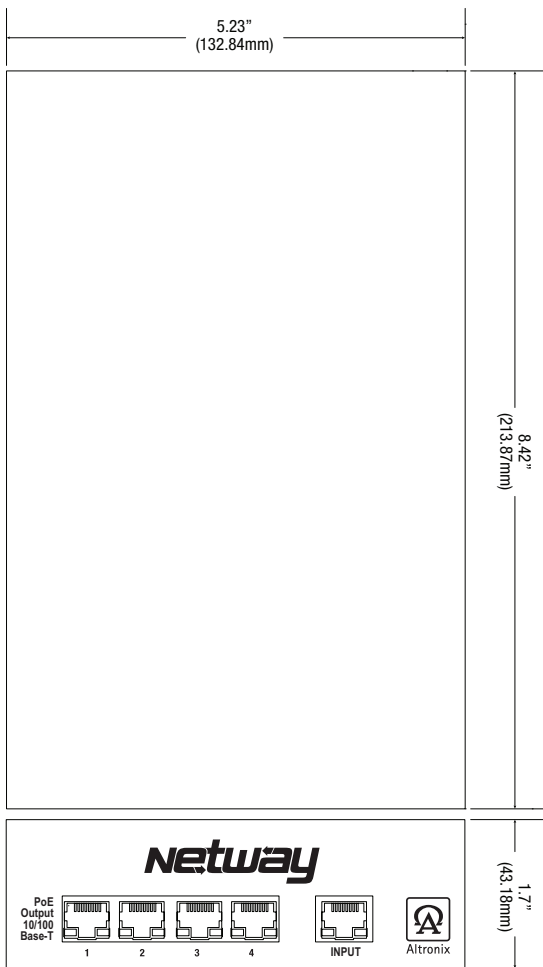
Notes:

NetWay4ES Chassis Mechanical Drawing & Dimensions

(H x W x D approx.):

1.7" x 5.23" x 8.42" (43.2mm x 132.8mm x 213.9mm)

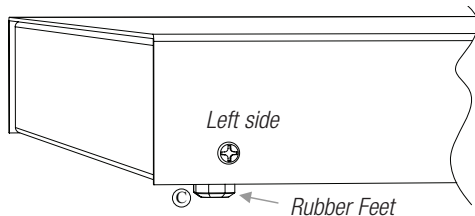
Fig. 3



Shelf Installation

- 1- Position and affix rubber pads (C) (included) at each corner on the bottom of the unit (Fig. 4).
- 2- Place unit in desired location.

Fig. 4



Mounting Hardware (Included):

Four (4) rubber pads



Altronix is not responsible for any typographical errors.

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