

# OttoE PoE H Series

Hardened Unmanaged PoE 8 to 10-port Gigabit Ethernet Switch



## Overview

EtherWAN's OttoE PoE H series is a hardened unmanaged Gigabit Ethernet switching platform, designed for easy deployment in harsh environments with limited space. It is a low-cost, easy-to-use device that combines essential industrial Ethernet networking functionality with rugged performance.

This versatile switch features full/half-duplex auto-negotiation and auto MDI/MDIX operation, allowing for convenient connection of a variety of network devices. QoS (Quality of Service) support allows for traffic prioritization and effective management of resources. A built-in watchdog feature supports the OttoE PoE H switch as an intelligent device to prevent packet loss from powered devices in the network. The feature can be enabled per port via DIP switch to enhance the feature flexibility.

EtherWAN — "When Connectivity is Crucial."

## Highlight

### + PoE Features

IEEE 802.3bt 90W per port  
Total power budget up to 270W

### + PoE Watchdog (Patented)

Data streaming monitoring for connected PD

### + SFP Connectivity

Up to two 100/1000BASE SFP option

### + High Reliability

Industrial Fanless Design  
6Kv surge protection

### + Quality of Service

PROFINET, EtherNet/IP

## Specifications

### + Interface

#### Ethernet

10/100/1000BASE-TX: 8 ports

100/1000BASE-SFP: 0 or 2 ports

#### LED Indicators

Per Unit: Power 1 (Green), Power 2 (Green), Fault (Red)

Per Port: Link/Activity (Green)

#### Alarm Contact

One relay output with current 0.5A@48VDC

### + Technology

#### Standards

IEEE 802.3 10BASE-T

IEEE 802.3u 100BASE-TX/FX

IEEE 802.3az Energy Efficient Ethernet

IEEE 802.1p Quality of Service (QoS)

IEEE 802.3ab 1000BASE-T

IEEE 802.3z 1000BASE-SX/1000BASE-LX

IEEE 802.3af/at/bt Power over Ethernet

#### Forward/Filtering Rate

14,880pps for 10Mbps

148,810pps for 100Mbps

1,488,100pps for 1000Mbps

#### Packet Buffer Memory

1.5M bits

#### Processing Type

Store-and-Forward

Auto Negotiation

Half-duplex back-pressure and IEEE

802.3x full-duplex flow control

Auto MDI/MDIX

#### Address Table Size

4K MAC

### + Power

#### Input

46-57VDC (Terminal Block)

#### Power Consumption

9.72W (without PoE)

#### Protection

Reverse Polarity Protection

#### PoE Power Output

Up to 90W/port

Power Budget: 270W

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46-57VDC for IEEE 802.3af type 1, ≤15.4W PD devices.

52-57VDC for IEEE 802.3at/bt type 2/3, 30W, 60W PD devices.

54-57VDC for IEEE 802.3bt, type 4, 90W PD devices.

## + Physical

**Casing Material**  
Metal

**IP Rating**  
IP30

**Dimensions**  
45x125x145mm (W x D x H) (1.77"x4.92"x5.71")

**Weight**  
577g (1.27lbs)

**Installation Type**  
DIN-Rail (Top hat type 35mm) mounting

## + Environmental

**Operating Temp.**  
-40 to 75°C (40 to 167°F)

**Storage Temp.**  
-40 to 85°C (-40 to 185°F)

**Relative Humidity**  
5% to 95% (non-condensing)

## + Regulatory

**ISO**  
Manufactured in ISO-9001 facility

**EMI**  
FCC Part 15 Class A  
VCCI Class A  
EN 61000-6-4  
ICES-003  
EN 55032

**EMS**  
EN 61000-6-2  
- EN 61000-4-2 (ESD)  
- EN 61000-4-3 (Radiated RFI)  
- EN 61000-4-4 (Burst)  
- EN 61000-4-5 (Surge)  
- EN 61000-4-6 (Induced RFI)  
- EN 61000-4-8 (Magnetic field)

**Safety**  
UL 61010

**Environmental Test Compliance**  
IEC 60068-2-6 Fc (Vibration)  
IEC 60068-2-27 Ea (Shock)  
FED STD 101C Method 5007.1 (Free fall w/package)

**Industrial**  
EN 50121-4

**Traffic**  
NEMA TS2 (TG103H)



## Warranty

Length  
Limited Lifetime

### Details

[www.etherwan.com/support/warranty-policy](http://www.etherwan.com/support/warranty-policy)

## + What's Included

### Device

Ethernet switch

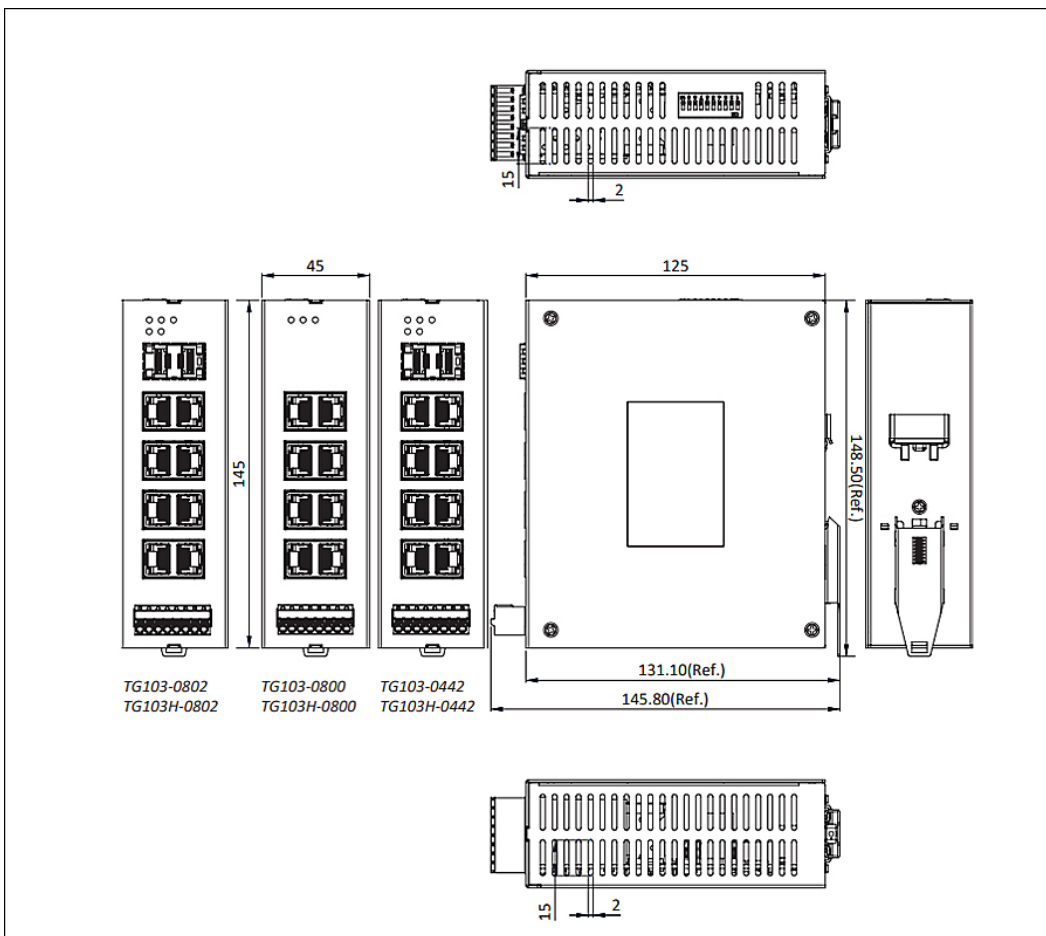
### Installation

Mounting brackets, screws

### Documentation

Quick install guide

## Dimensions



# Application

## Ordering Info

### + Model

Gigabit Ethernet Models

<b>TG103-0800</b>	8-port 10/100/1000BASE-TX PoE Industrial (-10 to 60°C) Unmanaged Switch
<b>TG103-0802</b>	8-port 10/100/1000BASE-TX PoE Industrial (-10 to 60°C) Unmanaged Switch
<b>TG103-0442</b>	4-port 10/100/1000BASE-TX PoE + 4-port 10/100/1000BASE-TX + 2-port 100/1000BASE SFP Industrial (-10 to 60°C) Unmanaged Switch
<b>TG103H-0800</b>	8-port 10/100/1000BASE-TX PoE Hardened (-40 to 75°C) Unmanaged Switch
<b>TG103H-0802</b>	8-port 10/100/1000BASE-TX PoE + 2-port 100/1000BASE SFP Hardened (-40 to 75°C) Unmanaged Switch
<b>TG103H-0442</b>	4-port 10/100/1000BASE-TX PoE + 4-port 10/100/1000BASE-TX + 2-port 100/1000BASE SFP Hardened (-40 to 75°C) Unmanaged Switch

Part Number	Speed	Info	Speed	Info	Distance	Operating Temperature	Wavelength	DDM
EX-0155NSP-MB2L-A	100Mbps	Multi	2km	-40 to 85°C	1310nm			
SFPMIS20M	100Mbps	Single	20km	-40 to 85°C	1310nm		✓	
SFPGIM5AM	1000Mbps	Multi	275m/550m	-40 to 85°C	850nm		✓	
SFPGIM02M	1000Mbps	Multi	2km	-40 to 85°C	1310nm		✓	
SFPGIS10M	1000Mbps	Single	10km	-40 to 85°C	1310nm		✓	

### + Optional Accessories

**HDR-480-48** 480W 48VDC DIN-Rail Power Supply

**100BASE SFP Modules** [www.etherwan.com/products/sfp-fiber-transceiver](http://www.etherwan.com/products/sfp-fiber-transceiver)

**Gigabit SFP Modules** [www.etherwan.com/products/sfp-fiber-transceiver](http://www.etherwan.com/products/sfp-fiber-transceiver)

