

# OttoE PoE 10H GE

Hardened 10-Port 90W Gigabit PoE Unmanaged Switches



## Overview

**OttoE PoE 10H GE** is designed for easy deployment in harsh environments where extensive temperature tolerance, resistance to vibrations and shocks, and compliance with stringent safety standards are required. This low-cost, easy-to-use device combines essential industrial Ethernet networking functionality, real-time deterministic network operation, and advanced rugged performance.

The **OttoE PoE 10 GE** switches feature a built-in Watchdog mechanism that intelligently monitors network activity to prevent packet loss from powered devices. The feature can be enabled per port via DIP switch to enhance the feature flexibility. The switch offers multiple Gigabit Ethernet ports, with models available that include both copper and 100/1000Mbps dual rate **SFP ports** for extended-distance connections.

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.

Deployment scenarios: Automation, Smart Grid, Intelligent Intersection with Surveillance required."

## Highlight

### + PoE Features

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

### + PoE Watchdog (Patented)

- Remotely detect and reboot
- unresponsive equipment by port

### + SFP Connectivity

- Up to two 100/1000BASE SFP option

### + Rugged Design

- Hardened Fanless Design
- 6Kv surge protection

### + Quality of Service

- EtherNet/IP (UDP 2222)
- PROFINET (Ether type 0x8892)

## Specifications



## + Interface

### Ethernet

- 10/100/1000BASE-TX: 8 ports
- 100/1000BASE-SFP: 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

### Dip Switch

- No.1 - 8: Port 1 to 8 Watchdog ON/OFF
- EXT: The timer enables Watchdog (ON: 5 min. / OFF: 10 min.)

## + 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
- Auto MDI/MDIX

## + 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)
- IEC 60068-2-31 (Free fall w/package)

### Industrial

- EN 50121-4

### Traffic

## + 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

### \*\*

- 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

## + Warranty

### Length

- Limited Lifetime

### Details

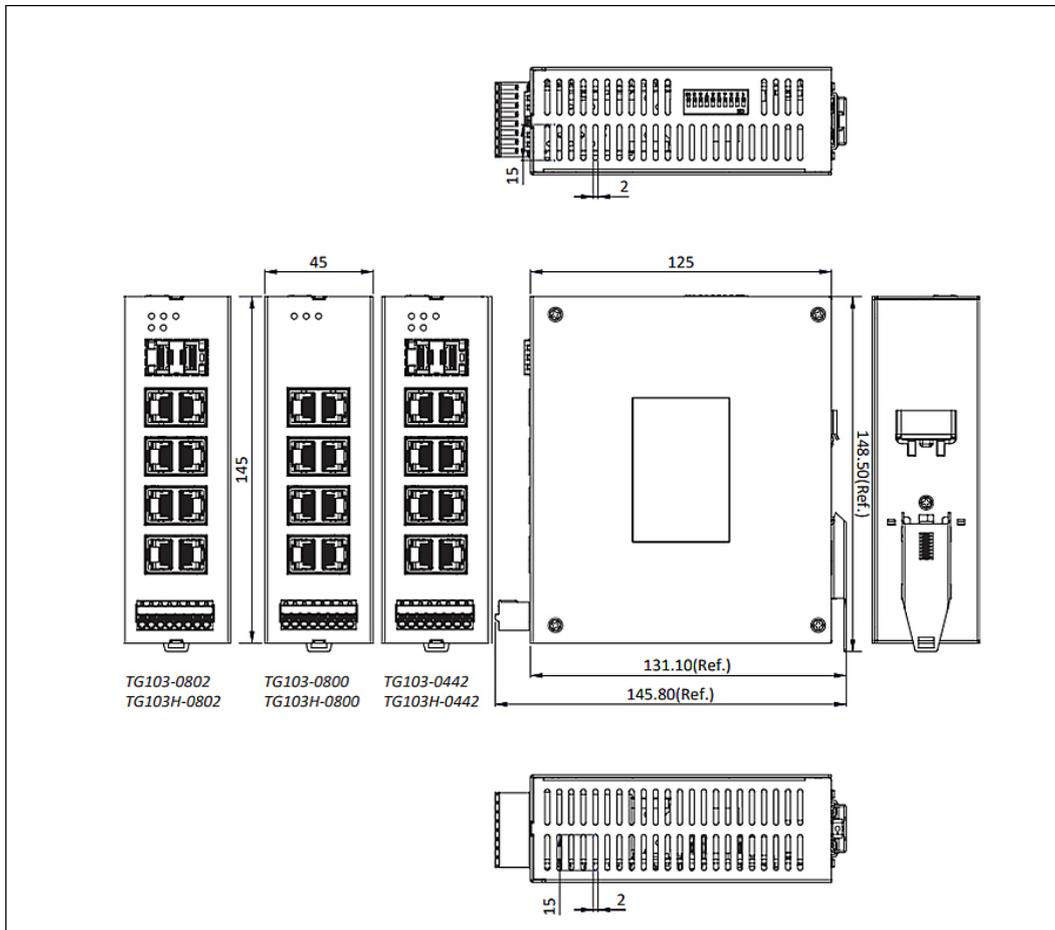
- [www.etherwan.com/support/warranty-policy](http://www.etherwan.com/support/warranty-policy)

## + What's Included

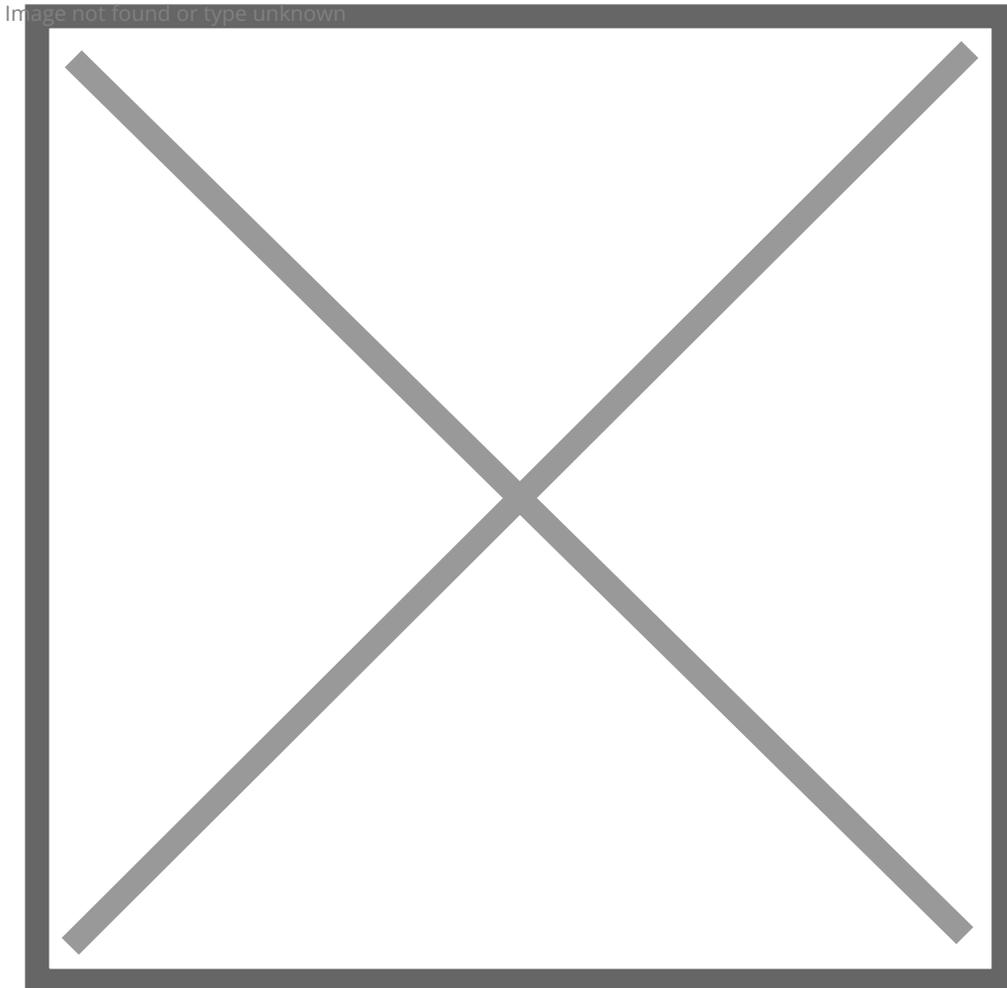
### Device

- Ethernet switch

# Dimensions



## Application



## Ordering Info

### + Gigabit models



**TG103H-0442**



**TG103H-0802**

10/100/1000BASE TX	8	8
PoE port	4	8
100/1000BASE SFP	2	2
Power Input	2 ( 46~57VDC ) Push-in spring terminal block	
QoS	EtherNet/IP & Profinet	
Corrosion Resistant	IP30	
	<a href="#">Quote</a>	<a href="#">Quote</a>

### + Optional Accessories

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

