OttoE Series

Industrial Unmanaged 8-port Fast/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. Its operating temperature is ranging from - 40? to 75?. 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

Features

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

- **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

- **Address Table Size**
  - 4K MAC

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)

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
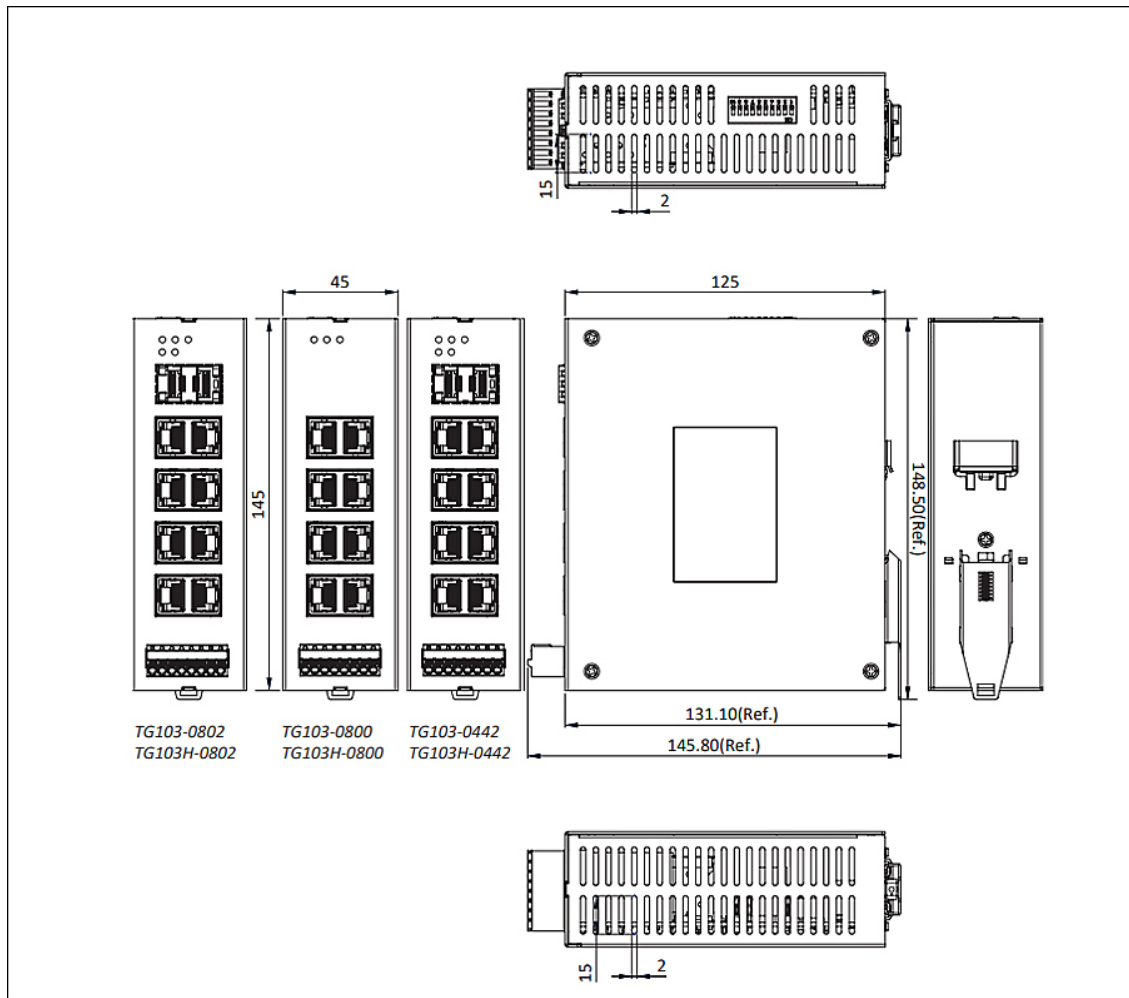
What's Included

- **Device**
- Ethernet switch

- **Documentation**
- Quick install guide

Dimensions

Application
Ordering Info

Model

Gigabit Ethernet Models

TG103-0800

8-port 10/100/1000BASE-TX PoE Industrial (-10 to 60°C) Unmanaged Switch

TG103-0802

8-port 10/100/1000BASE-TX PoE + 2-port 100/1000BASE SFP Industrial (-10 to 60°C) Unmanaged Switch

TG103-0442

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

TG103H-0800

8-port 10/100/1000BASE-TX PoE Hardened (-40 to 75°C) Unmanaged Switch

TG103H-0802

8-port 10/100/1000BASE-TX PoE + 2-port 100/1000BASE SFP Hardened (-40 to 75°C) Unmanaged Switch

TG103H-0442

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

NDR-480-48

480W 48VDC DIN-Rail Power Supply

100BASE SFP Modules
www.etherwan.com/products/sfp-fiber-transceiver
Gigabit SFP Modules
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