

OttoE PoE Series

Industrial Unmanaged PoE 8 to 10-port Gigabit Ethernet Switch



Overview

EtherWAN's OttoE PoE series is an industrial unmanaged Gigabit Ethernet switching platform, designed for easy deployment in harsh environments with limited space. Its operating temperature is ranging from - 10°C to 60°C. 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 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

+ High Reliability

Industrial Fanless Design
6Kv surge protection

+ PoE Watchdog (Patented)

Monitor data and remotely reboot the PD

+ Quality of Service

PROFINET, EtherNet/IP

+ SFP Connectivity

Up to two 100/1000BASE SFP option

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

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.

-10 to 60°C (14 to 140°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

NEMA TS2 (TG103H)

+ 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

+ Warranty

Length

Limited Lifetime

Details

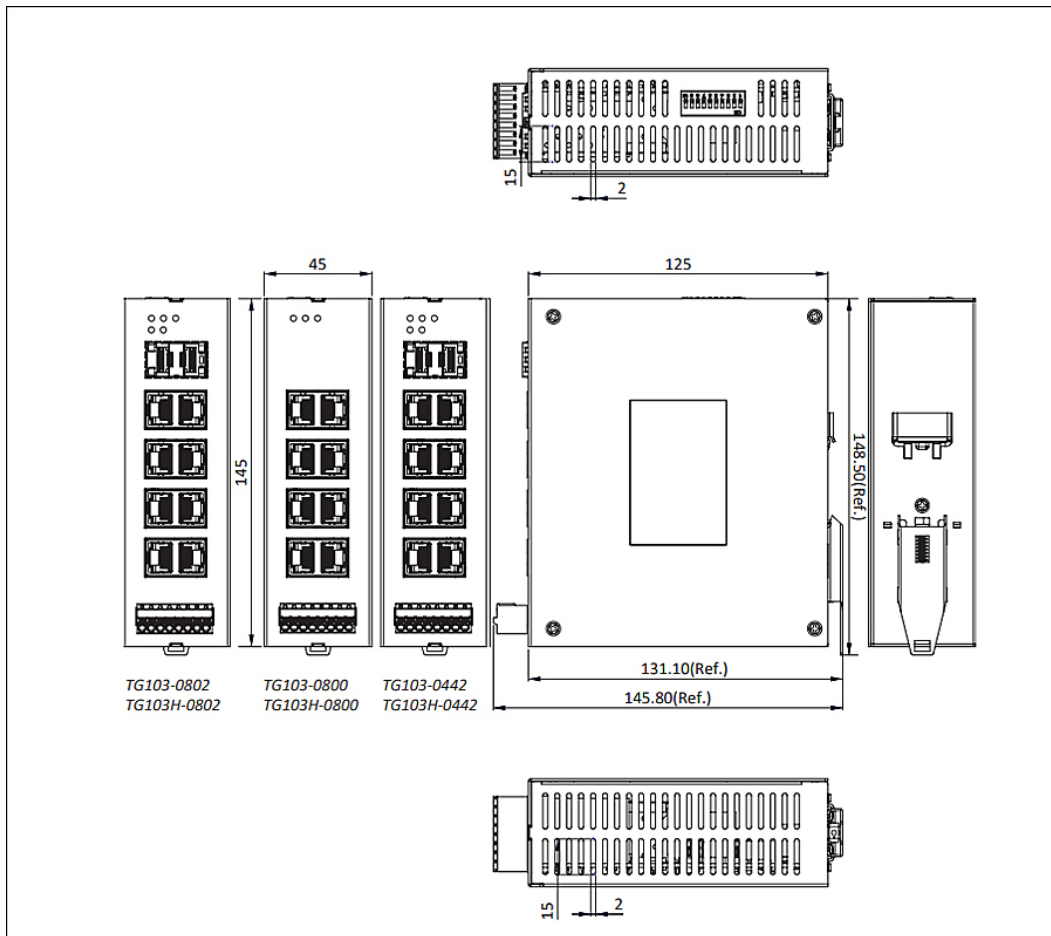
www.etherwan.com/support/warranty-policy

+ What's Included

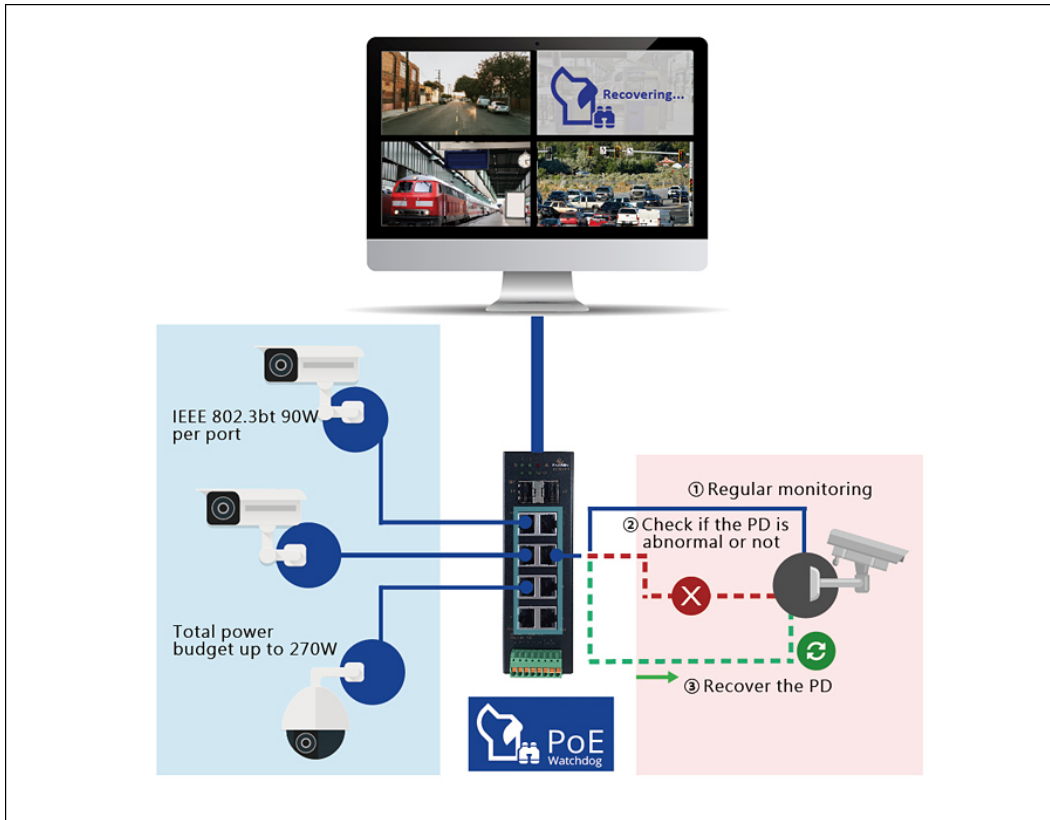
Device

Ethernet switch

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

