

OttoE PoE 10 GE

Industrial 10-Port 90W Gigabit PoE Unmanaged Switches



Overview

OttoE PoE 10 GE are 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.

IEC 62443-4-2 Compliance – Built and reviewed according to IEC 62443-4-1 secure development practices.

EtherWAN — "When Connectivity is Crucial."

Highlight

+ PoE Features

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

+ Rugged Design

Industrial Fanless Design
6Kv surge protection

+ PoE Watchdog (Patented)

Remotely detect and reboot unresponsive equipment by port

+ QoS Prioritized Messages

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

+ SFP Connectivity

Up to two 100/1000BASE SFP option

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.)

+ 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)

+ 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

+ 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

Cybersecurity

IEC 62443-4-1
IEC 62443-4-2

Environmental Test Compliance

IEC 60068-2-6 Fc (Vibration)
IEC 60068-2-27 Ea (Shock)
IEC 60068-2-31 (Free fall w/package)

Traffic

NEMA TS2

Railway

EN 50121-4

+ 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

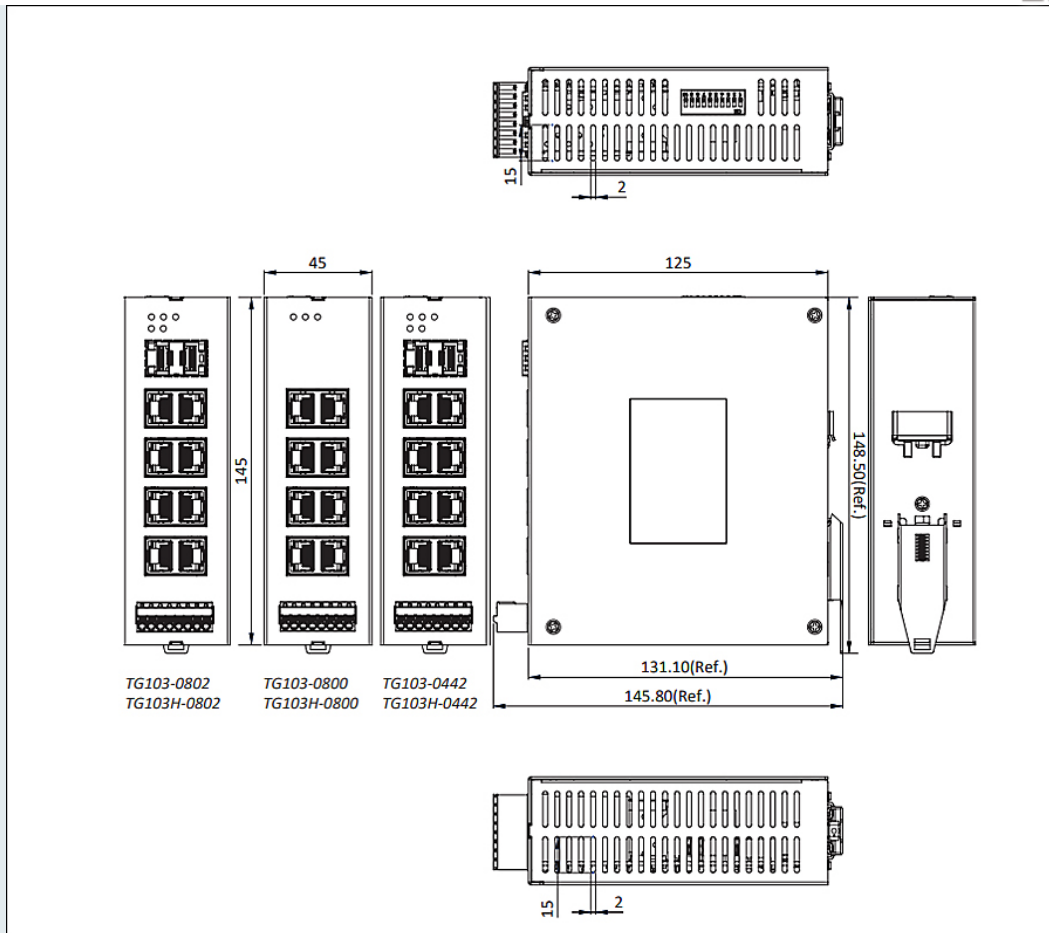
www.etherwan.com/support/warranty-policy

+ What's Included

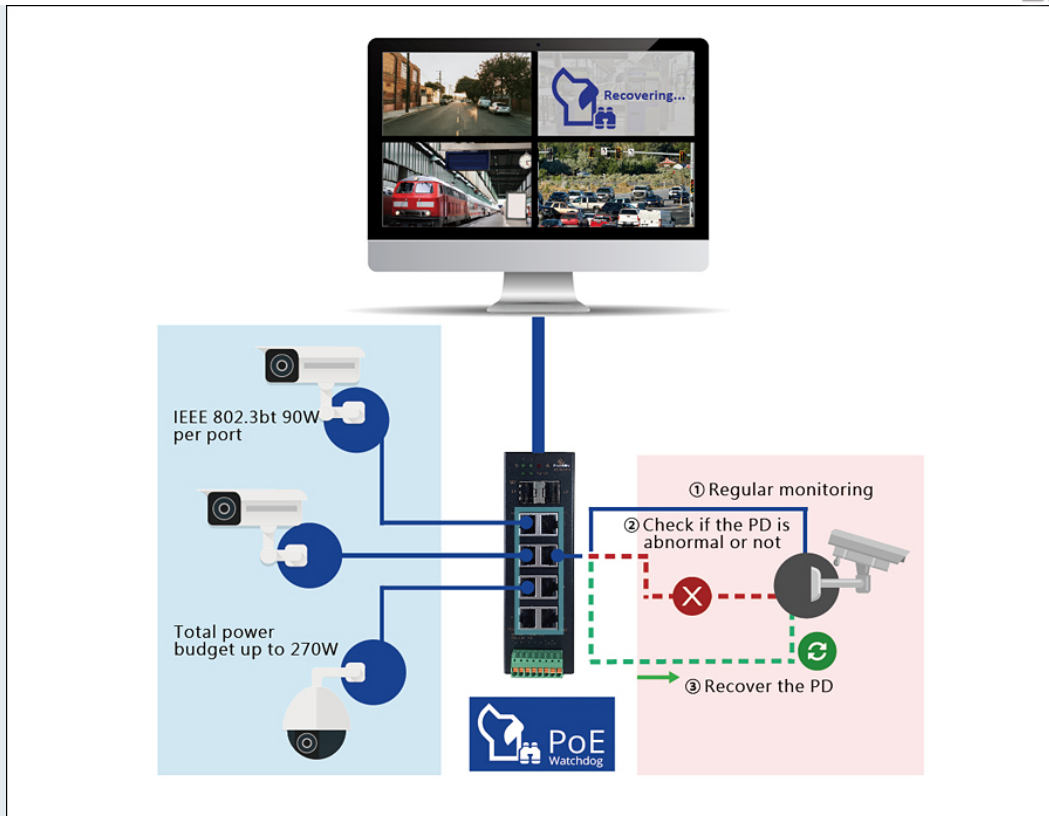
Device

Ethernet switch

Dimensions



Application



Ordering Info

+ Gigabit models

	 TG103-0442	 TG103-0802
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	
	Quote	Quote



Optional Accessories

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