

OttoE PoE 08H GE

Hardened 8-Port 90W Gigabit PoE Unmanaged Switches



Overview

The **OttoE PoE 08H GE** is a hardened industrial-grade unmanaged PoE switch built to operate reliably in extreme environments. Designed with **IEEE 802.3bt (up to 90W per port)** support and **6kV surge protection**, this switch powers demanding PoE devices such as PTZ cameras, wireless access points, and edge AI equipment. Housed in a rugged metal casing, the OttoE PoE 08H GE features a wide operating temperature range of -40°C to 75°C, making it ideal for outdoor cabinets, roadside enclosures, and industrial field sites.

Engineered for plug-and-play deployment, OttoE PoE 08H GE includes **per-port PoE watchdog via DIP switch to auto-recover frozen PDs**, ensuring system uptime in unmanned locations. Built-in **QoS**, auto-negotiation, and auto MDI/MDIX provide seamless integration into industrial networks. This switch is a reliable solution for smart traffic systems, substation automation, smart grid infrastructure, renewable energy, and harsh industrial automation applications that demand high power, durability, and ease of use.

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

+ PoE Watchdog (Patented)

Remotely detect and reboot unresponsive
equipment by port

+ Rugged Design

Industrial 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

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

+ 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)

+ 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

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

+ 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

+ Warranty

Length

Limited Lifetime

Details

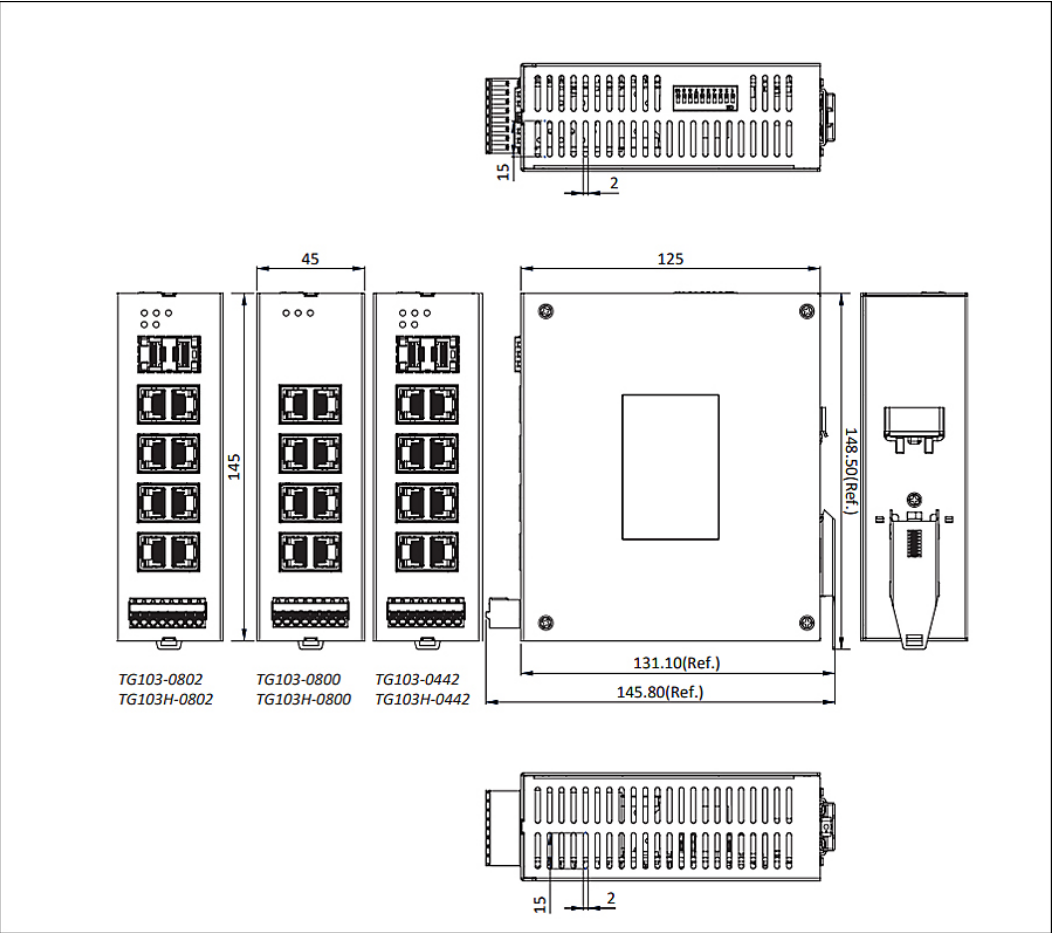
www.etherwan.com/support/warranty-policy

+ What's Included

Device

Ethernet switch

Dimensions



Ordering Info

+ Gigabit models



TG103(H)-0800



TG103-0800

	TG103(H)-0800	TG103-0800
10/100/1000BASE TX	8	8
PoE port	8	8
Power Input	2 (46~57VDC) Push-in spring terminal block	
QoS	EtherNet/IP & Profinet	
Corrosion Resistant	IP30	
Operating Temp.	-40 to 75°C	-10 to 60°C
	Quote	Quote

+ Gigabit models with 2 SFP Options



TG103-0442



TG103-0802



TG103(H)-0442



TG103(H)-0802

	TG103-0442	TG103-0802	TG103(H)-0442	TG103(H)-0802
10/100/1000BASE TX	8	8	8	8
PoE port	4	8	4	8
100/1000BASE SFP	2	2	2	2
Power Input	4 (46~57VDC) Push-in spring terminal block			
QoS	EtherNet/IP & Profinet			
Corrosion Resistant	IP30			



TG103-0442



TG103-0802



TG103(H)-0442



TG103(H)-0802

Operating Temp.	-10 to 60°C		-40 to 75°C	
	Quote	Quote	Quote	Quote

+ Optional
Accessories

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

