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.

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

✚ 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

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

Warranty

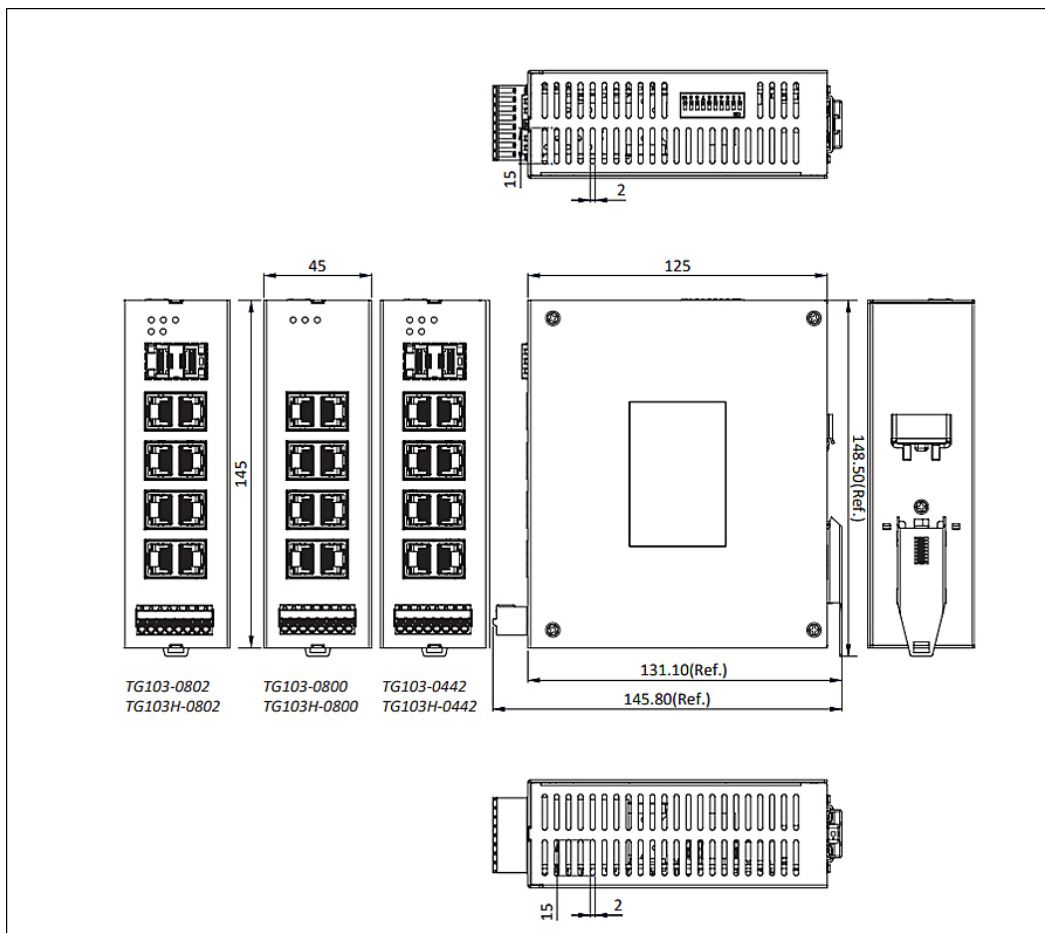**Length**

Limited Lifetime

Details
www.etherwan.com/support/warranty-policy

➕ What's Included

Device
Ethernet switch

Dimensions

TG103-0802   TG103-0800   TG103-0442
TG103H-0802   TG103H-0800   TG103H-0442

Ordering Info

✚ Gigabit models

	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

✚ Optional Accessories

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