

OttoE PoE 08 GE

Industrial 8-Port 90W Gigabit PoE Unmanaged Switches



Overview

The **OttoE PoE 08 GE** is a cost-effective, industrial-grade unmanaged PoE switch engineered for reliable operation in harsh environments. Supporting **IEEE 802.3bt PoE++ (up to 90W per port)** and **6kV surge protection**, it powers high-consumption devices such as PTZ cameras, wireless access points, and industrial IoT gateways. The switch offers a wide operating temperature range (-10°C to 60°C, or **-40°C to 75°C for H models**) and is housed in a rugged metal enclosure for DIN-rail mounting. These features make it ideal for mission-critical applications where durability and high power delivery are essential.

Designed for plug-and-play simplicity, OttoE PoE 08 GE features auto-negotiation, auto MDI/MDIX, and **QoS** traffic prioritization to ensure smooth data transmission. Its **per-port PoE watchdog function**, configurable via DIP switch, automatically recovers unresponsive PDs to maintain network uptime. This industrial PoE switch is perfectly suited for deployments in smart transportation, intelligent intersections, smart grid infrastructure, industrial automation, outdoor surveillance, and renewable energy systems where consistent performance and easy integration are key.

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
- [安裝設定（含 DIP 圖解）](#) | [疑難排解](#)

+ 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.
-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

+ Warranty

Length

Limited Lifetime

Details

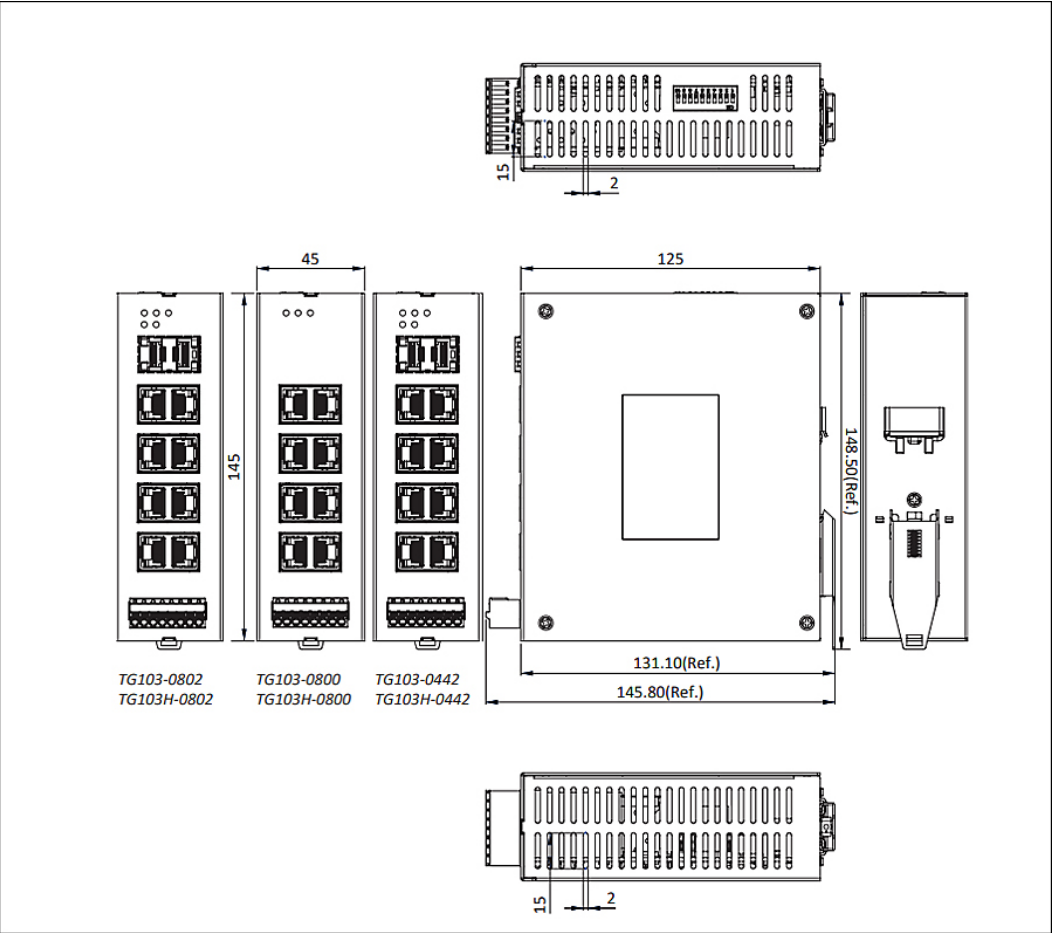
www.etherwan.com/support/warranty-policy

+ What's Included

Device

Ethernet switch

Dimensions



Ordering Info

+ Gigabit models



TG103-0800

TG103(H)-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.	-10 to 60°C	-40 to 75°C
	Quote	Quote

+ Optional Accessories

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

FAQ

+ 什麼是 PoE Watchdog？

當攝影機、感測器或無線 AP 因軟體當機而不回應時，OttoE 內建的 PoE Watchdog 會監測該埠的封包活動；若偵測為「無活動」，即自動關閉並恢復該埠供電，等同遠端重新插電，減少到場維護。

+ PoE Watchdog 提要

自動復原：每 30 秒檢測一次封包活動，無回應即自動斷電再供電。

各埠獨立：Per-port 判斷與復位，不影響其他 PoE 埠。

延遲啟動：DIP #9 (EXT) 可選 5 或 10 分鐘，避免冷開機誤判。

免 IP 設定：非網管即可使用，無需 IP、Ping 或 SNMP。

+ 適用情境

路口/偏遠監控：人力不易即時到場時，自動復原可降低停機時間。

零售數位看板：避免黑屏影響服務或廣告播放。

工業 IoT：無人化場域或夜間維運的關鍵備援機制。

+ 設定重點

對應 Port 1-8 的 Watchdog 開/關。

DIP #9 (EXT)：OFF=10 分鐘 ON=5 分鐘延遲啟動。

變更需重啟：切換 DIP 後需重新啟動交換器才會生效。

+ 常見疑問（精簡）

判斷頻率：每 30 秒為一個檢測週期；該週期未收到 PD 封包即觸發重供。

會誤判嗎？對「低頻/僅取電」裝置，建議關閉該埠 Watchdog，或在裝置端啟用 keep-alive 心跳（例如 NTP、MQTT）。

+ 延伸閱讀

[安裝設定（含 DIP 圖解）](#) | [疑難排解](#)

