TG100H Series

Hardened Unmanaged 8-Port Gigabit Ethernet Switch

Overview

➕ Range of Operating Temperatures

Supports Hardened Grades

➕ SFP Connectivity

Up to two 100/1000BASE SFP option

➕ High Reliability

Fanless design

➕ Quality of Service

PROFINET (TG100H), EtherNet/IP

EtherWAN's OttoE Series is a hardened unmanaged Gigabit Ethernet switching platform, designed for easy deployment in harsh environments with limited space. The OttoE Series is an economic easy-to-use device, which provides essential industrial Ethernet networking functionality.

It supports 9 to 55VDC redundant power input, and also provides relay alarm for power failure. The OttoE is equipped with eight Fast/Gigabit Ethernet ports, or a combination of Fast/Gigabit Ethernet copper ports and two 100 or 100/1000 Mbps dual rate SFP ports for long distance connectivity.

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 rugged, DIN rail mountable metal housing provides security and easy installation (mounting kit is included).

Specifications

Interface

Ethernet
10/100/1000BASE-TX: 8 or 6 ports
100/1000BASE-SFP: 0 or 2 ports

Alarm Contact
One relay output with current 0.5A@30V

LED Indicators
Per Unit: Power 1 (Green), Power 2 (Green), Fault (Red)
Per Port: Link/Activity (Green)

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

Forward/Filtering Rate
14,880pps for 10Mbps
148,810pps for 100Mbps
1,488,100pps for 1000Mbps

Packet Buffer Memory
1.5M bits (TG100H)

Processing Type
Store-and-Forward
Auto Negotiation
Half-duplex back-pressure
Auto MDI/MDIX

Address Table Size
4K MAC (TG100H)

Power

Input
9-55VDC (Terminal Block)

Power Consumption
5.55W max. (TG100H)

Protection
Reverse Polarity Protection

Physical

Casing Material
Metal

IP Rating
IP30

Dimensions
45 x 75 x 100mm (W x D x H) (1.77" x 2.95" x 3.94")

Weight
336g (0.74lbs)

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)
FED STD 101C Method 5007.1 (Free fall w/package)

Industrial
EN 50121-4

Traffic
NEMA TS2

➕ Warranty

Length
Limited Lifetime

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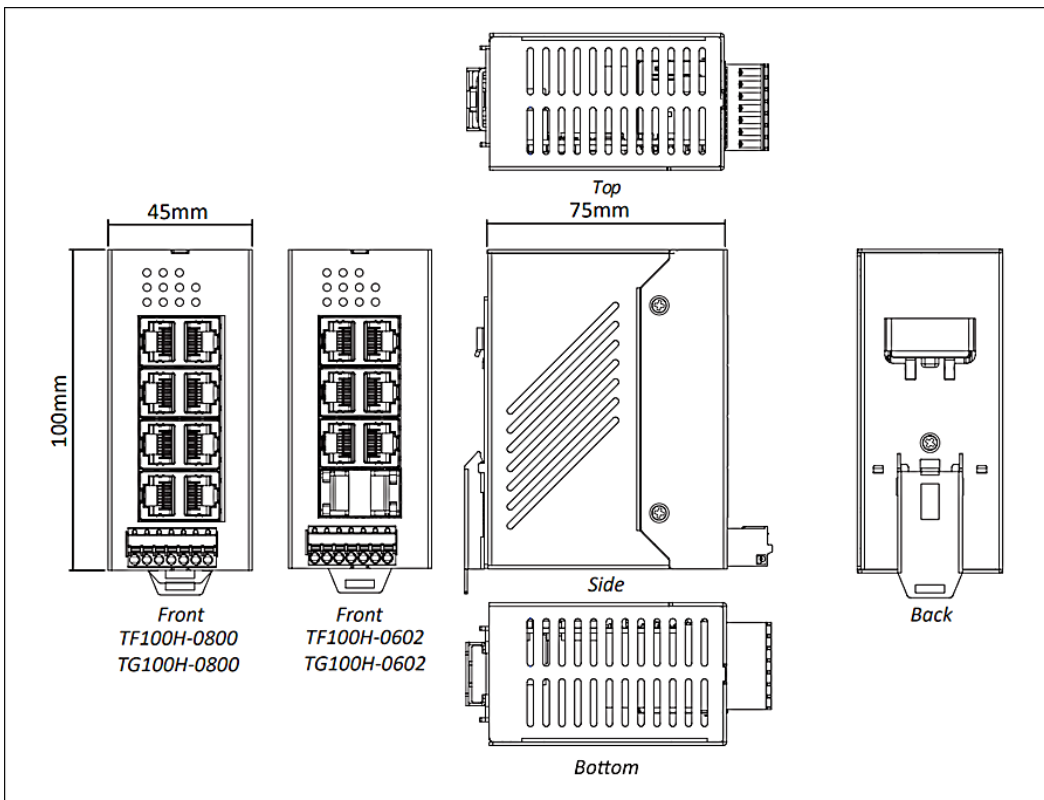www.etherwan.com/support/warranty-policy

➕ What's Included

Device
Ethernet switch

Installation
Mounting brackets, screws

Documentation
Quick install guide

Dimensions

Ordering Info

➕ Model

Gigabit Ethernet Models

TG100H-0800	8-port 10/100/1000BASE-TX Hardened Unmanaged Ethernet Switch
TG100H-0602	6-port 10/100/1000BASE-TX+2-port 100/1000BASE SFP Hardened Unmanaged Ethernet Switch

➕ Optional Accessories

EPOW-24-60	60W 24VDC NEMA TS2 Power Supply
EPHX-24-60	60W/2.5A DIN-Rail 24VDC Industrial Power Supply
SFP Modules	100/1000BASE SFPs available for the TG100H