TG100H Series

Hardened Unmanaged 8-Port Gigabit Ethernet Switch



Overview

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).

Highlights

Range of Operating Temperatures

Supports Hardened Grades

High Reliability

Fanless design

SFP Connectivity

Up to two 100/1000BASE SFP option

Quality of Service

PROFINET (TG100H), EtherNet/IP

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)

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

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

Power

Input

9-55VDC (Terminal Block)

Power Consumption

5.55W max. (TG100H)

Protection

Reverse Polarity Protection

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)

Warranty

Length

Limited Lifetime

Details

www.etherwan.com/support/warranty-policy

What's Included

Device

Ethernet switch

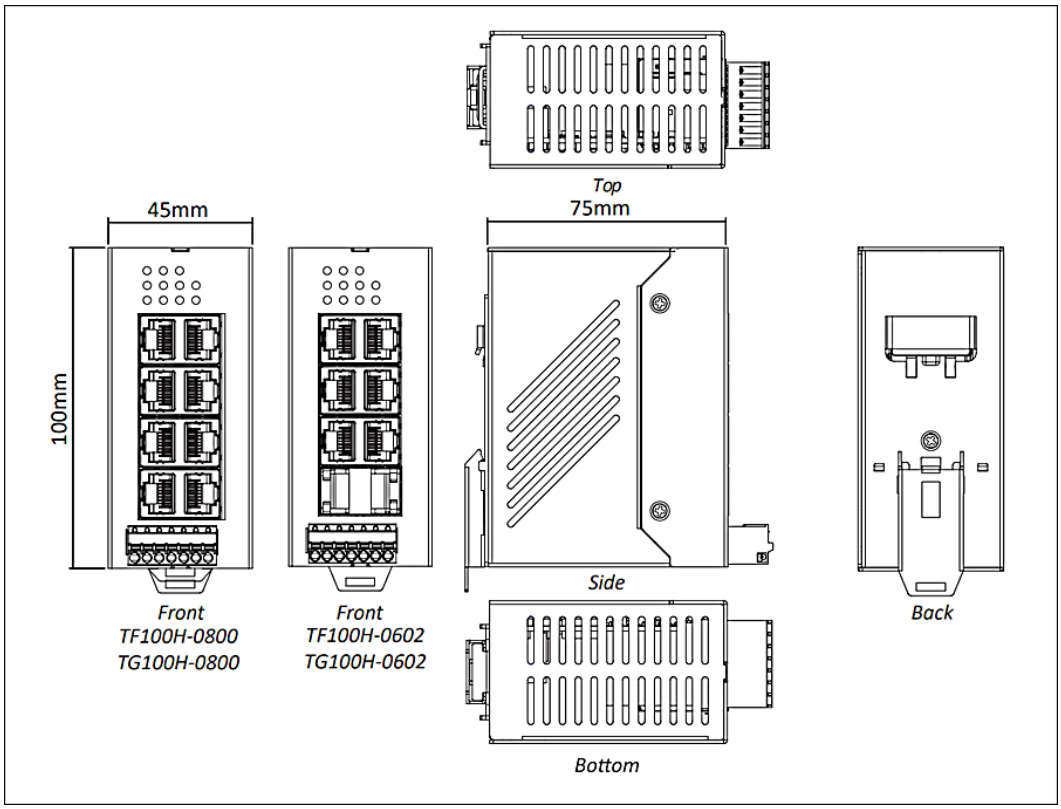
Installation

Mounting brackets, screws

Documentation

Quick install guide

Dimensions


Top
45mm
75mm
100mm
Front
TF100H-0800
TG100H-0800
Front
TF100H-0602
TG100H-0602
Side
Back
Bottom

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

Accessories

SFP Modules

Hardened SFP Modules	www.etherwan.com/products/sfp-fiber-transceiver

Power Supplies

EPOW-24-60	Power Supply, Hardened (-40°C - +75°C) External 100-277 VAC Input; NEMA-TS2 rated; 60W, 24VDC, 0-11.1A with Open Wire (US Plug) - No Deration at High Temps
EPHX-24-60	60W/2.5A DIN-Rail 24VDC Industrial Power Supply - No Deration at High Temps
EPHX-48-240	240W/5A DIN-Rail 48VDC (42-56VDC Adjustable) Industrial Power Supply - No Deration at High Temps
EPHX-48-480	480W/10A DIN-Rail 48VDC (36-55VDC Adjustable) Industrial Power Supply - No Deration at High Temps

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