

OttoE H Series

Hardened Unmanaged 8/16-port Fast/Gigabit Ethernet Switch



Overview

EtherWAN's OttoE H Series is a hardened unmanaged Ethernet switching platform, designed for easy deployment in harsh environments with limited space. The OttoE H 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 H is equipped with Fast/Gigabit Ethernet ports, or a combination of Fast/Gigabit Ethernet copper ports and 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).

EtherWAN — "When Connectivity is Crucial."

Highlight

+ 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

10/100BASE-TX: 6/8/14/16-ports

10/100/1000BASE-TX: 6/8-ports

100BASE-SFP: 0/2-ports

100/1000BASE-SFP: 0/2-ports

Alarm Contact

One relay output with current 0.5A@30V (8-port Series)/0.5A@48V (16-port Series)

LED Indicators

Per Unit: Power 1 (Green), Power 2 (Green), Fault (Red)

Per Port: Link/Activity (Green)

Per Port: Speed (Yellow) (16-port Series)

+ Physical

Casing Material

Metal

IP Rating

IP30

Dimensions

8-port series: 45 x 75 x 100mm (W x D x H) (1.77" x 2.95" x 3.94")

16-ports series: 80 x 91 x 100mm (W x D x H) (3.15" x 3.58" x 3.94")

Weight

8-port Series: 336g (0.74lbs)

16-port Series: 502g (1.11lbs)

Installation Type

DIN-Rail (Top hat type 35mm) mounting

+ 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

768K bits (TF100H)
1.5M bits (TG100H)

Processing Type

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

Address Table Size

2K MAC (TF100H)
4K MAC (TG100H)

+ 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 (8-port Series)
IEC 60068-2-31 (16-port Series)
(Free fall w/package)

Industrial

EN 50121-4

Traffic

NEMA TS2

+ Power

Input

9-55VDC (Terminal Block)

Power Consumption

3.4W max. (8-port Series)

3.72W max. (16-port Series)

Protection

Reverse Polarity Protection

+ Warranty

Length

Limited Lifetime

Details

www.etherwan.com/support/warranty-policy

+ Environmental

Operating Temp.

-40 to 75°C (-40 to 167°F)

Storage Temp.

-40 to 85°C (-40 to 185°F)

Relative Humidity

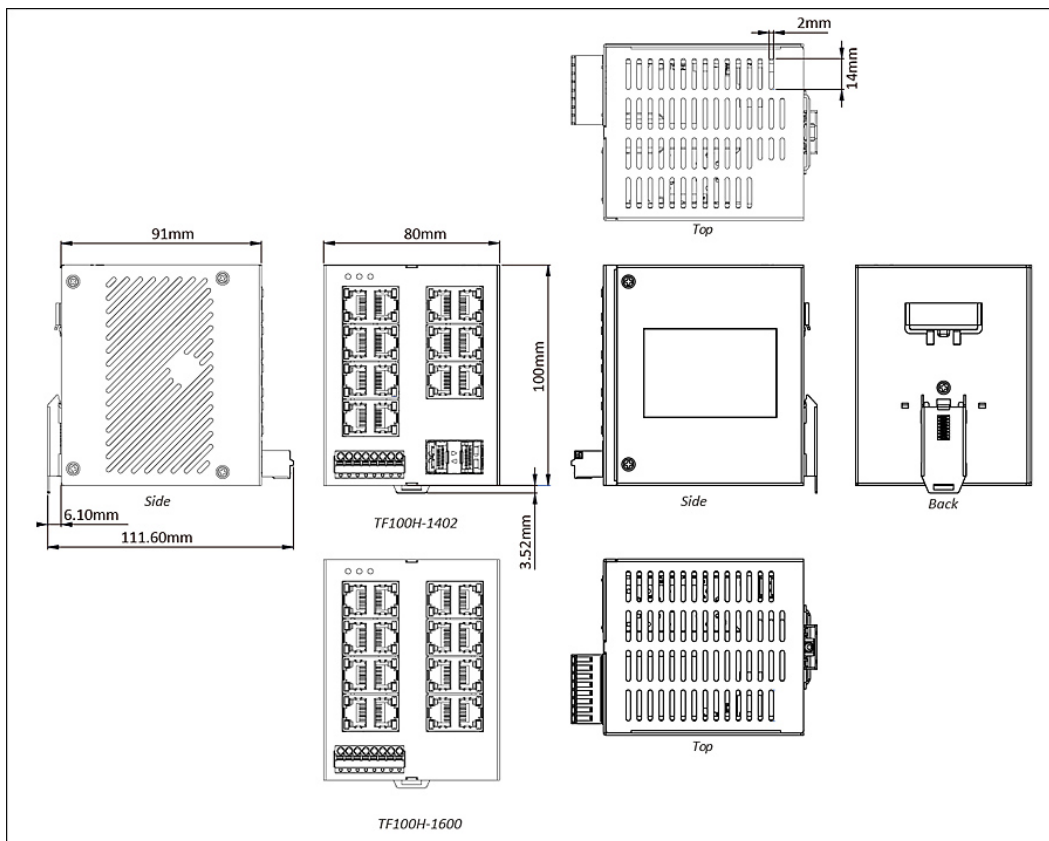
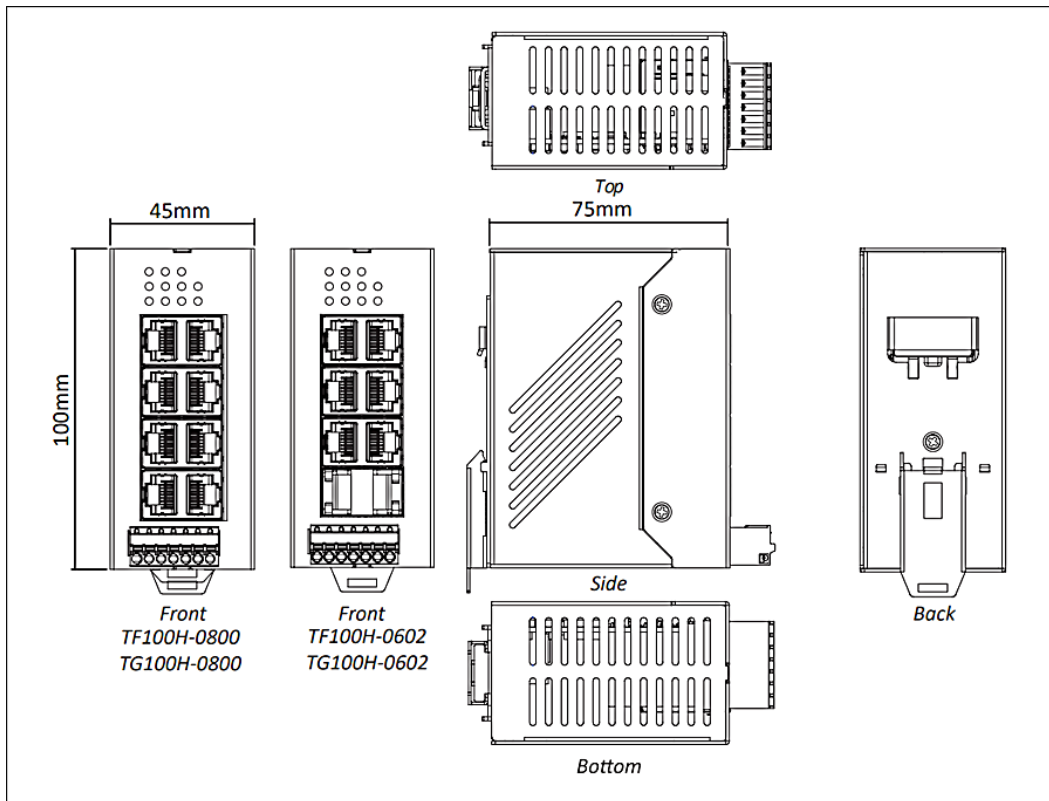
5% to 95% (non-condensing)

+ What's Included

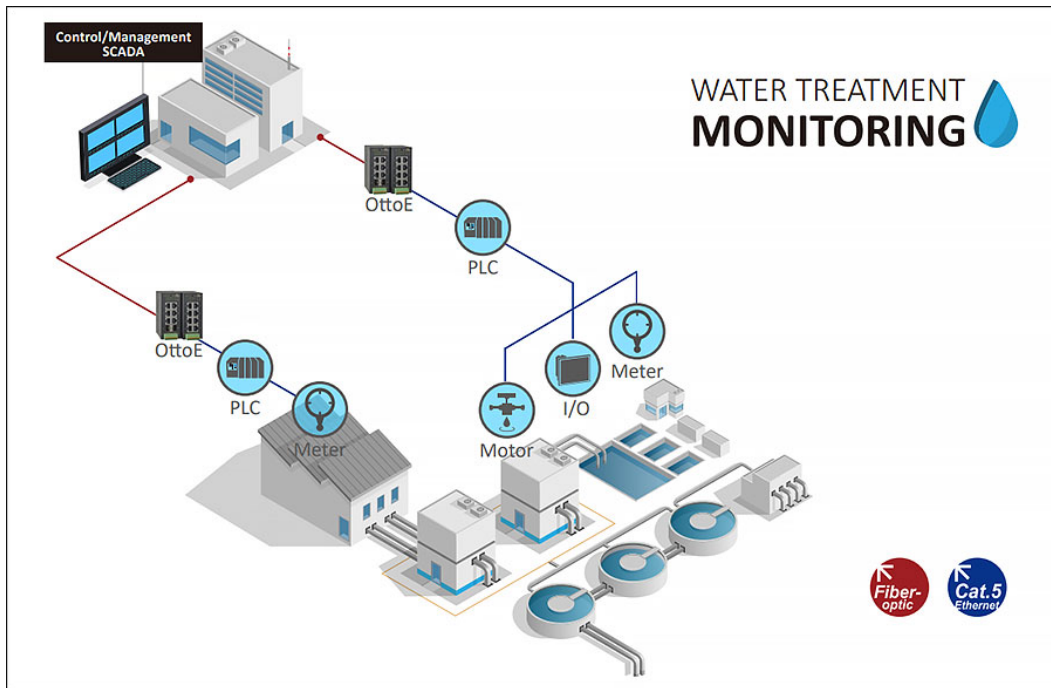
Device

Ethernet switch

Dimensions



Application



Ordering Info

+ Model

Fast Ethernet Models

| | |
|--------------------|---|
| TF100H-0800 | 8-port 10/100BASE-TX Hardened Unmanaged Ethernet Switch |
| TF100H-0602 | 6-port 10/100BASE-TX+2-port 100BASE SFP Hardened Unmanaged Ethernet Switch |
| TF100H-1600 | 16-port 10/100BASE-TX Hardened Unmanaged Ethernet Switch |
| TF100H-1402 | 14-port 10/100BASE-TX+2-port 100BASE SFP Hardened Unmanaged Ethernet Switch |

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

| | |
|------------------|---|
| HDR-30-24 | 30W/1.5A DIN-Rail 24VDC Industrial Power Supply |
| HDR-60-24 | 60W/2.5A DIN-Rail 24VDC Industrial Power Supply |

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|----------------------------|--|
| 100BASE SFP Modules | www.etherwan.com/products/sfp-fiber-transceiver |
| Gigabit SFP Modules | www.etherwan.com/products/sfp-fiber-transceiver |

