

OttoE H 16 Series

Hardened 16-port Unmanaged Ethernet Switch



Overview

The OttoE 16-port unmanaged Ethernet switches are designed for space-limited environments, standing just 100 mm tall. The **TG100-1600 and TG100-1402 (Fast Ethernet)** offer flexible network options to meet various performance needs.

Both models support a wide voltage range of **9 to 55VDC** redundant power input and include a relay alarm for power failure, ensuring reliable and continuous operation. They feature **Auto MDI/MDIX, full/half-duplex auto-negotiation**, and **Quality of Service (QoS)** support to enhance overall network performance and traffic management. Housed in rugged metal, these switches are built to withstand challenging environments. Their DIN rail-mountable design, with a mounting kit included, ensures easy and secure installation.

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 8-port)
- 2M bits (TF100H 16-port)
- 1.5M bits (TG100H)

Processing Type

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

Address Table Size

- 2K MAC (TF100 8-port)
- 8K MAC (TF100 16-port)
- 4K MAC (TG100)

+ Regulatory

ISO

- Manufactured in ISO-9001 facility

EMI

- FCC Part 15 Class A
- VCCI Class A
- EN 61000-6-4
- ICES-003
- EN 55032
- BSMI

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)

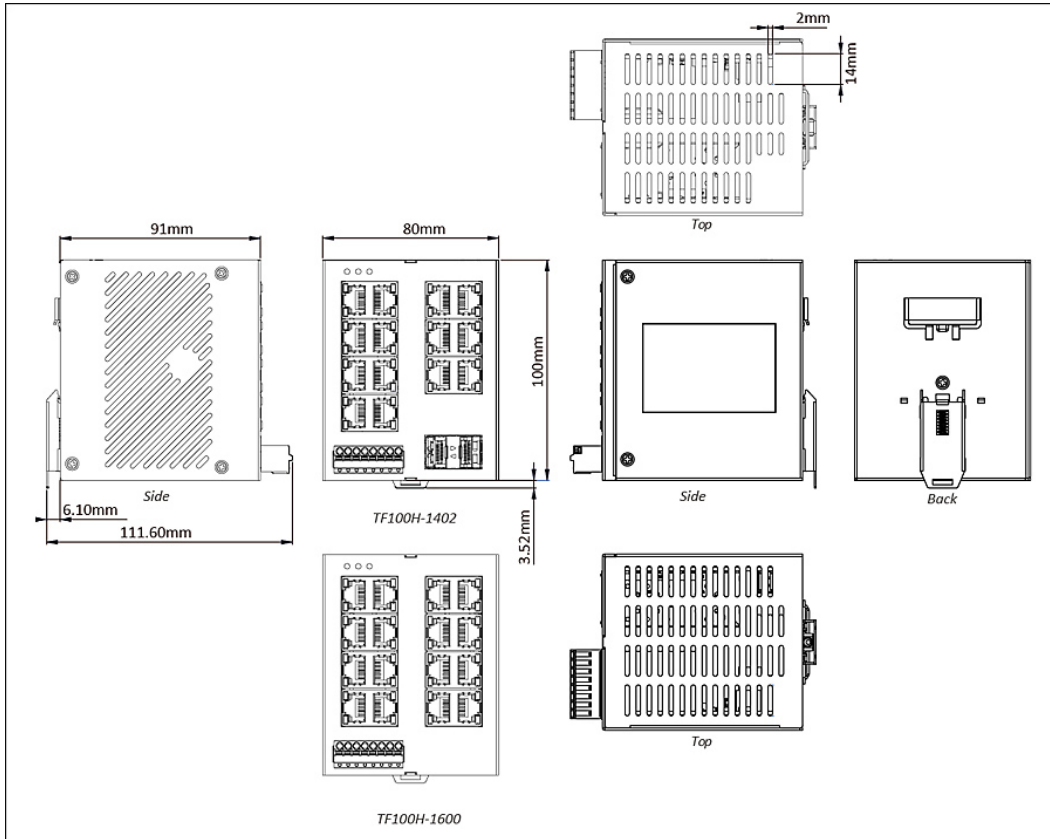
+ What's Included

Device

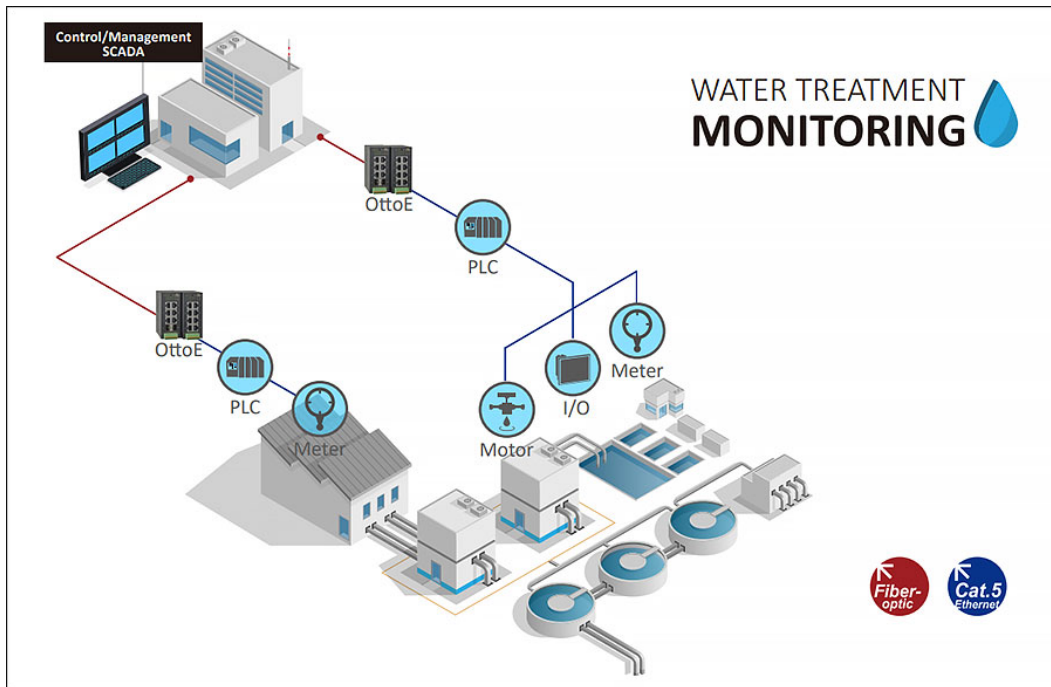
- Ethernet switch

Dimensions

Hardened grade unmanaged 8 ports Ethernet switch

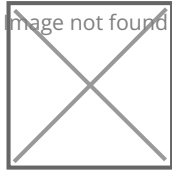


Application



Ordering Info

+ Fast Ethernet models



TF100(H)-1600

TF100(H)-1402

10/100Base TX	16	14
100Base SFP	-	2
Power input	2 (9~55VDC) Push-in spring terminal block	
QoS	EtherNet/IP	EtherNet/IP
Product level	IP30	IP30
	Quote	Quote

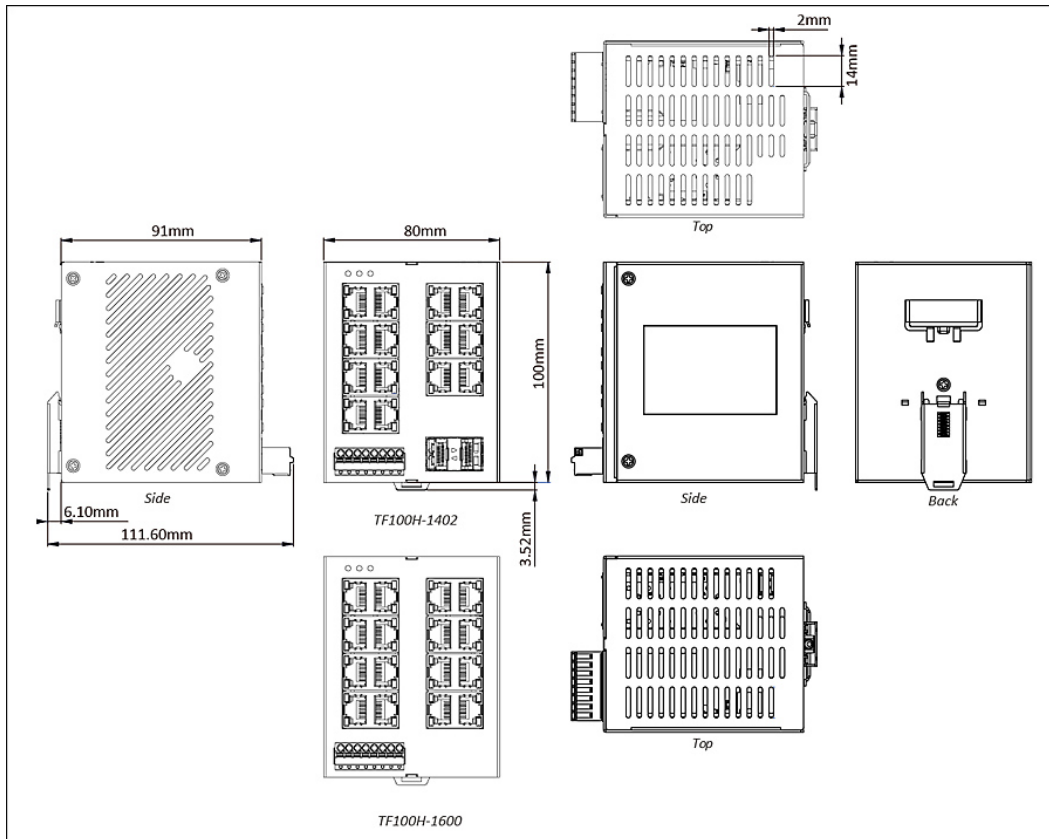
+ Optional Accessories

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

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

Dimensions

Hardened grade unmanaged 8 ports Ethernet switch



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