

OttoE 16H FE

Hardened 16-port Fast Ethernet Unmanaged Switches



Overview

The **OttoE 16H FE** Series from EtherWAN is a compact, Hardened-grade unmanaged Ethernet switch, built for reliable performance in space-constrained and harsh environments. Designed for simplicity and efficiency, it delivers essential Ethernet networking capabilities at a cost-effective price point.

Supporting a wide input voltage range of **9 to 55VDC** with redundant power options, the OttoE 16H FE also features a relay alarm to signal power failures. The switch offers multiple Fast Ethernet ports, with models available that include both copper and 100Mbps SFP ports for extended-distance connections.

With support for auto-negotiation (full/half duplex) and auto MDI/MDIX, device connection is straightforward and hassle-free. **QoS** (Quality of Service) functionality ensures traffic prioritization for optimized network performance. Housed in a rugged metal enclosure designed for DIN rail mounting, the OttoE 16H FE is built for easy installation and long-term durability—mounting kit included.

Deployment scenarios: Automation, Railway, Intelligent Intersection

EtherWAN — "When Connectivity is Crucial."

Highlight

+ Reliable Operation

- IEEE 802.3az Energy Efficient Ethernet
- Power failure notification

+ SFP Connectivity

- Up to two 100BASE SFP option

+ Rugged Design

- Fanless design (No moving parts)
- Reverse Polarity Protection

+ QoS Prioritized Messages

- EtherNet/IP (UDP 2222)

Specifications

+ Interface

Ethernet

- 10/100BASE-TX: 14/16-ports
- 100BASE-SFP: 0/2-ports

Alarm Contact

- One relay output with current 0.5A@48V

LED Indicators

- Per Unit: Power 1 (Green), Power 2 (Green), Fault (Red)
- Per Port: Link/Activity (Green)
- Per Port: Speed (Yellow)

+ Physical

Casing Material

- Metal

IP Rating

- IP30

Dimensions

- 80 x 91 x 100mm (W x D x H) (3.15" x 3.58" x 3.94")

Weight

- 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)

Forward/Filtering Rate

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps

Packet Buffer Memory

- 2M bits

Processing Type

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

Address Table Size

- 8K MAC

+ 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)
- IEC 60068-2-31
- (Free fall w/package)

Industrial

- EN 50121-4

Traffic

- NEMA TS2

+ Power

Input

- 9-55VDC (Terminal Block)

Power Consumption

- 3.72W max.

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

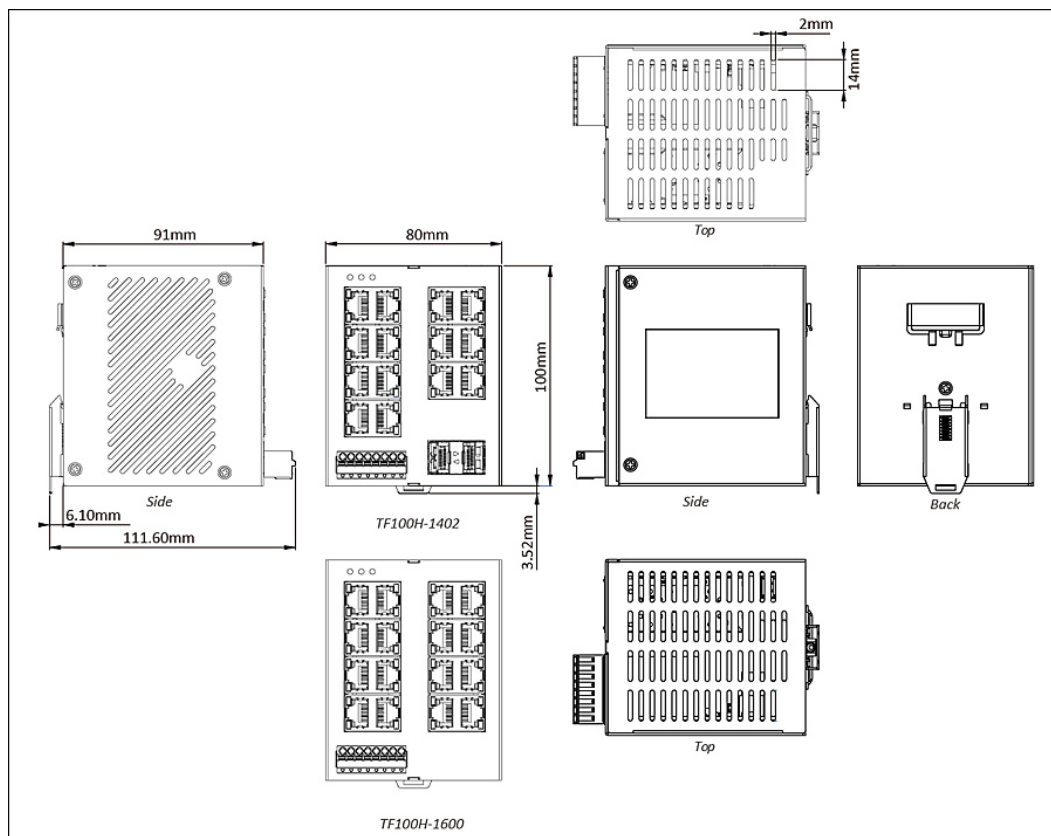
- 5% to 95% (non-condensing)

+ What's Included

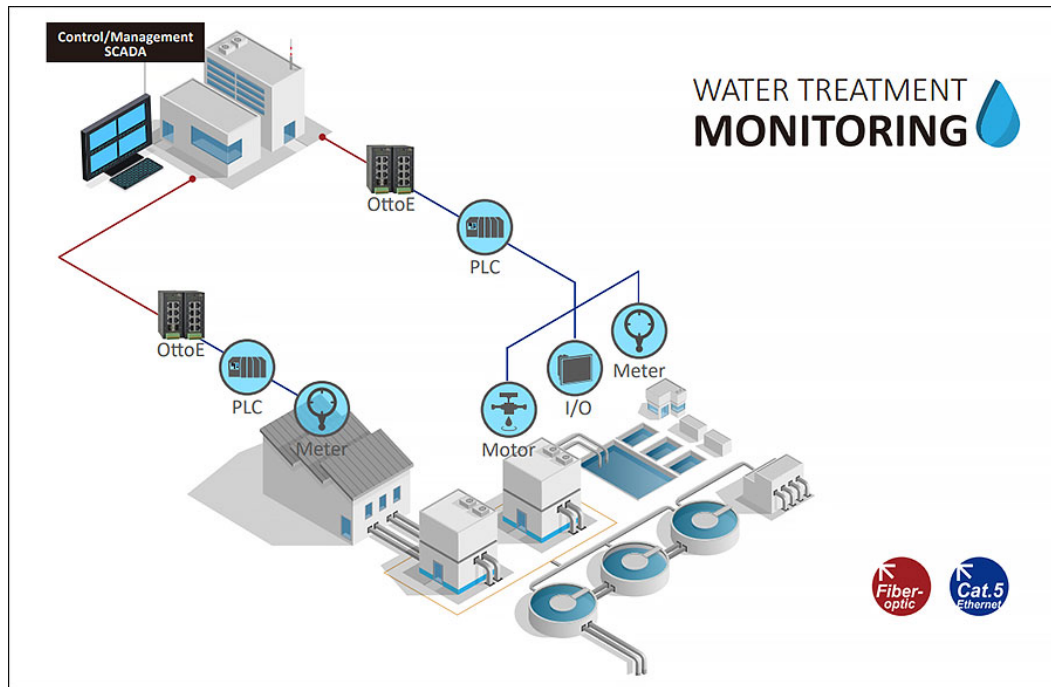
Device

- Ethernet switch

Dimensions



Application



Ordering Info

+ Fast Ethernet models

		
	TF100H-1600	TF100H-1402
10/100Base TX	16	14
100Base SFP	-	2
Power Input	2 (9~55VDC) Push-in spring terminal block	
QoS	EtherNet/IP	
Corrosion Resistant	IP30	
	Quote	Quote

+ Optional Accessories

HDR-30-24	30W/1.5A DIN-Rail 24VDC Hardened Power Supply
HDR-60-24	60W/2.5A DIN-Rail 24VDC Hardened Power Supply
100BASE SFP Modules	www.etherwan.com/products/sfp-fiber-transceiver

