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

IEC 62443-4-2 Compliance – Built and reviewed according to IEC 62443-4-1 secure development practices.

EtherWAN — "When Connectivity is Crucial."

Highlight

Reliable Operation

IEEE 802.3az Energy Efficient Ethernet

Power failure notification

Rugged Design

Fanless design (No moving parts)

Reverse Polarity Protection

SFP Connectivity

Up to two 100BASE SFP option

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

Cybersecurity

IEC 62443-4-1

IEC 62443-4-2

Environmental Test Compliance

IEC 60068-2-6 Fc (Vibration)

IEC 60068-2-27 Ea (Shock)

IEC 60068-2-31

(Free fall w/package)

Traffic

NEMA TS2

Railway

EN 50121-4

Power

Input

9-55VDC (Terminal Block)

Power Consumption

3.72W max.

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

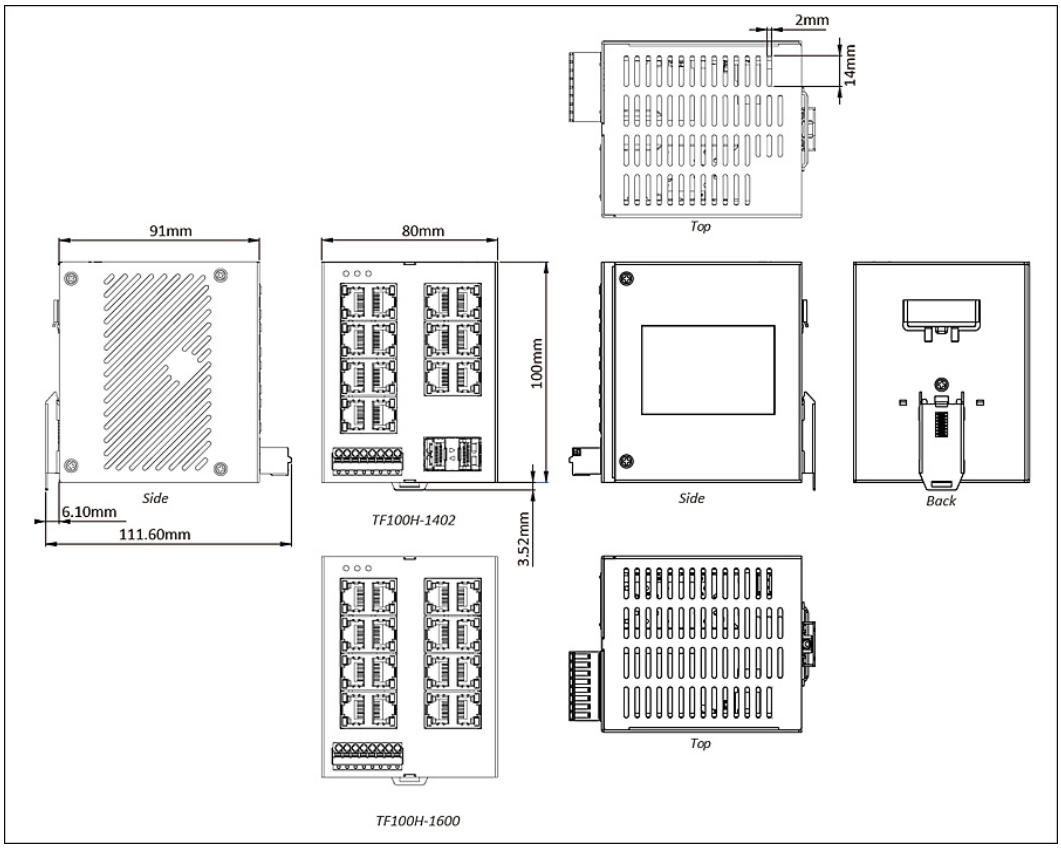
www.etherwan.com/support/warranty-policy

What's Included

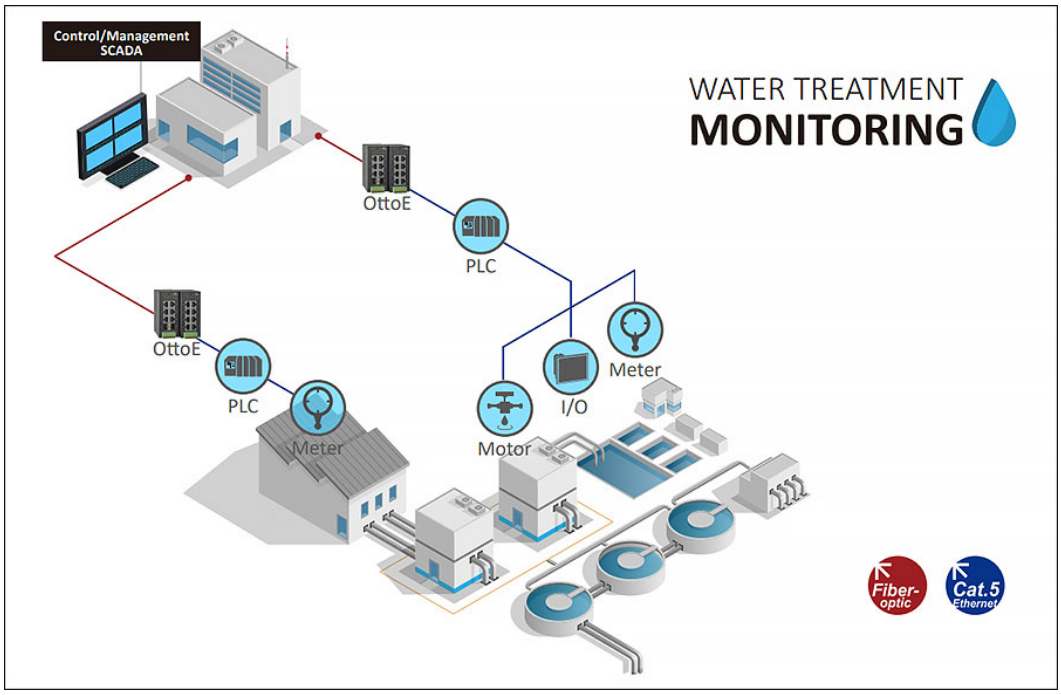
Device

Ethernet switch

Dimensions



Application



Ordering Info

Fast Ethernet models

				
	TF100H-1600	**TF100H-1402**	**TF100-1600**	**TF100-1402**
10/100BASE TX	16	14	16	14
100BASE SFP	-	2	-	2
Power Input	2 (9~55VDC) Push-in spring terminal block			
QoS	EtherNet/IP			
Corrosion Resistant	IP30			
Operating Temp.	-40 to 75°C		-10 to 60°C	
	Quote	Quote	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

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