OttoE 16 FE

Industrial 16-port Fast Ethernet Unmanaged Switches



Overview

The **OttoE 16 FE Series** from EtherWAN is a robust, unmanaged Ethernet switching solution engineered for reliable operation in space-constrained and demanding industrial environments. Designed for simplicity and cost-efficiency, it delivers core networking functionality essential for industrial applications.

The switch supports a wide input voltage range of **9 to 55VDC** with redundant power capability and includes a relay alarm to signal power failure events, enhancing system reliability. Available models include up to 16 Fast Ethernet ports, or a mix of copper and 100Mbps SFP ports, offering flexible options for both local and long-distance connectivity.

Featuring auto-negotiation (full/half duplex) and auto MDI/MDIX, the **OttoE 16 FE** ensures seamless integration with diverse network devices. **Built-in QoS** (Quality of Service) enhances traffic management by enabling prioritization of critical data. The unit is housed in a rugged metal enclosure, DIN rail mountable for secure and straightforward installation—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.

-10 to 60°C (14 to 140°F)

Storage Temp.

-40 to 85°C (-40 to 185°F)

Relative Humidity

5% to 95% (non-condensing)

Warranty

Length

Limited Lifetime

Details

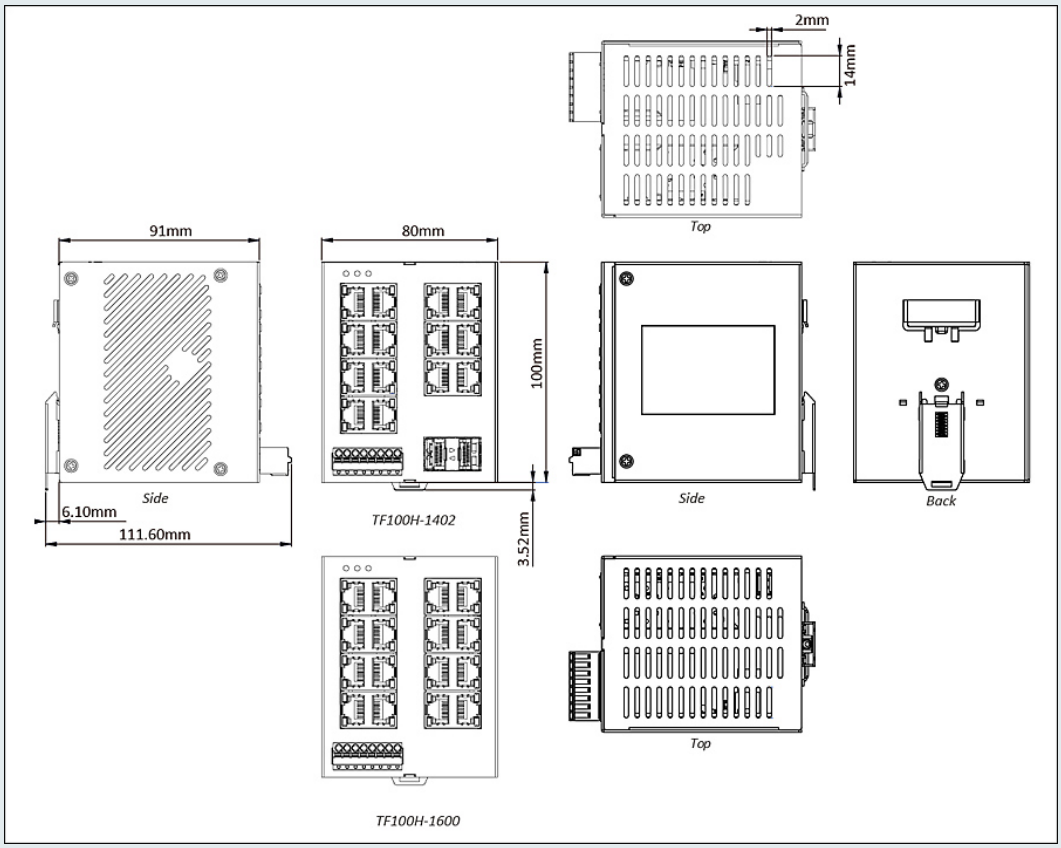
www.etherwan.com/support/warranty-policy

What's Included

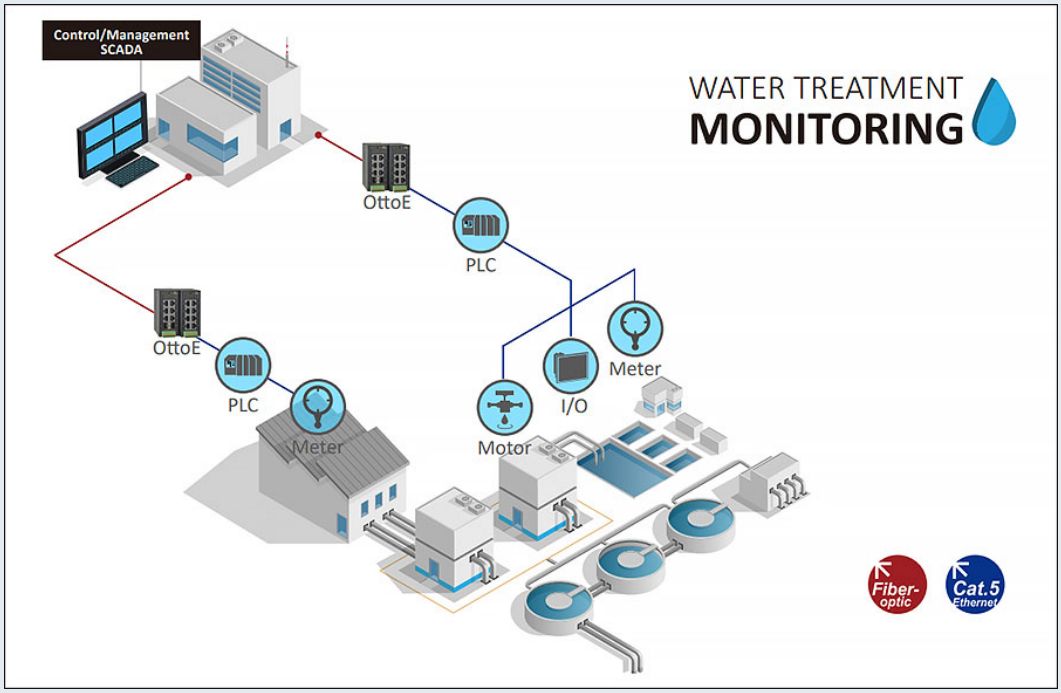
Device

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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