# 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

**+ SFP Connectivity**

Up to two 100/1000BASE SFP option

**+ High Reliability**

Fanless design

**+ 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
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.**
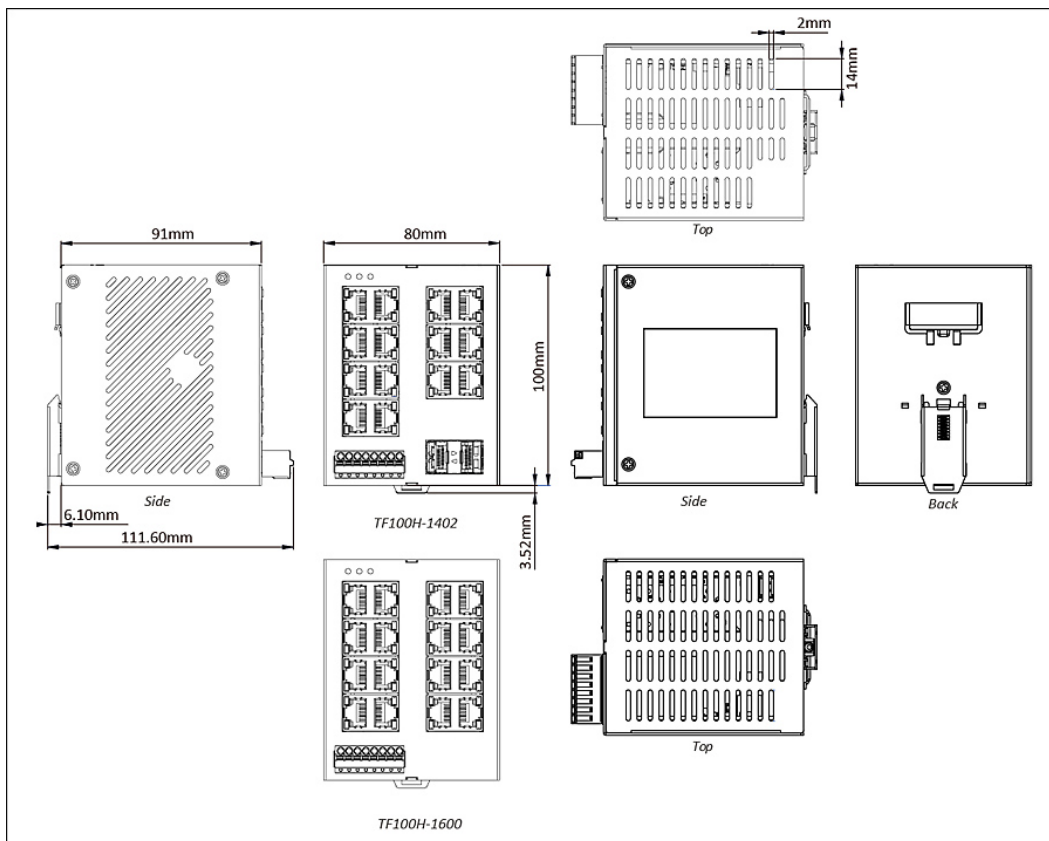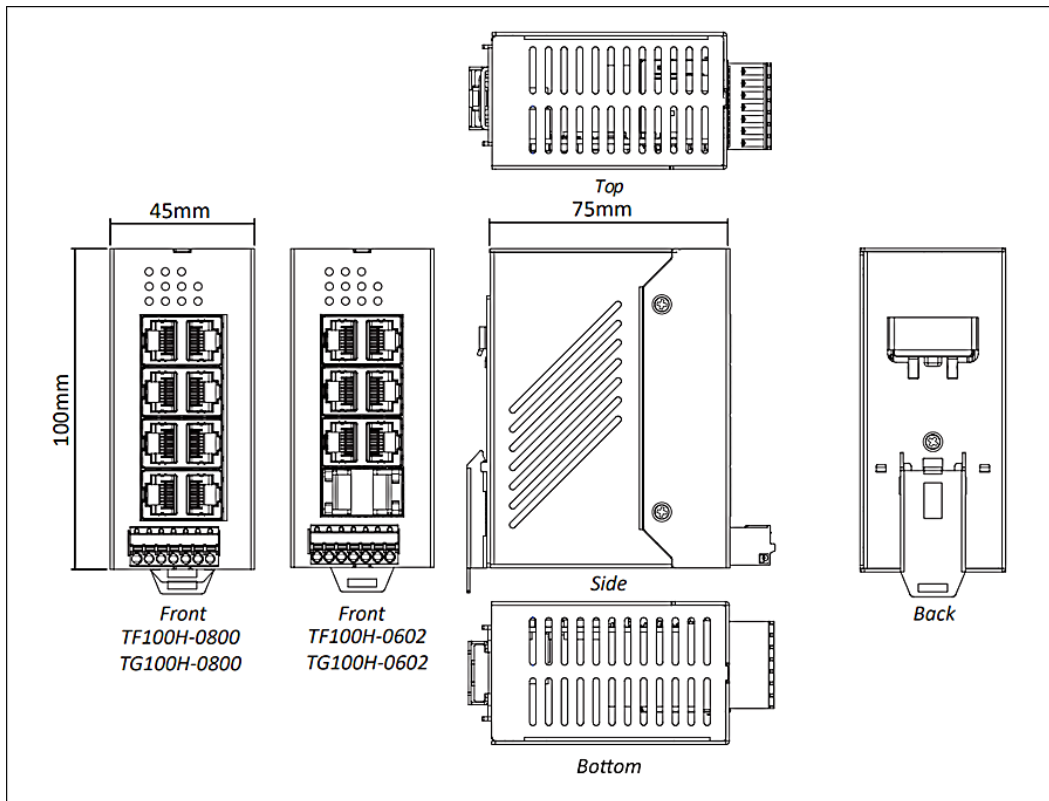-40 to 85°C (-40 to 185°F)

**Relative Humidity**
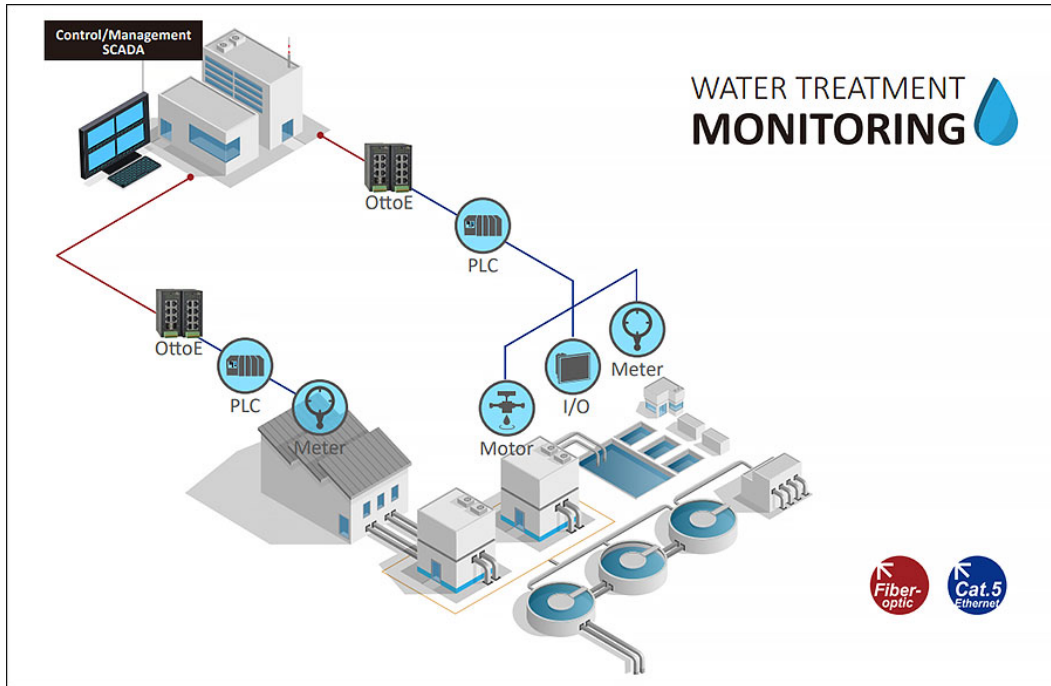5% to 95% (non-condensing)

## ➕ What's Included

**Device**
Ethernet switch

# Dimensions



Top
75mm

45mm

100mm

Front
TF100H-0800
TG100H-0800

Front
TF100H-0602
TG100H-0602

Side

Bottom

Back



2mm

14mm

Top

91mm

80mm

100mm

Side

6.10mm

111.60mm

TF100H-1402

3.52mm

Side

Back

TF100H-1600

Top

# 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 |

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