

# SmartE 系列

強固級網管型 5 - 16 埠 Fast/Gigabit 乙太網路交換器



## 產品介紹

SmartE 系列是強固級第 2 層網管型乙太網交換器。SmartE 提供兩種安裝方法，DIN 導軌式安裝和壁掛式安裝，並採用工業級無風扇設計，使 SmartE 能夠在寬範圍的操作溫度（攝氏 -40 至 75 度）內提供工業等級穩定度，並且可靠地運行。透過第 2 層的網路管理功能，SmartE 非常適合用於工業邊緣應用端的網路連接，即便在惡劣的工業環境中也能順利運作。SmartE 支援全快速乙太網路(Fast Ethernet)連接埠或全Gigabit 的乙太網路連接埠，其提供 5 埠、8 埠或 16 埠的 RJ-45 銅線網路埠，以及最多 2 個 SFP Gigabit 光纖連接埠，可用於長距離網路傳輸。SmartE 系列專為關鍵工業應用需求所設計，是可靠的網路管理解決方案。

EtherWAN — "When Connectivity is Crucial."

## 產品亮點

### + 適用於不通風和惡劣環境的強固等級

-40 至 75°C (-40 至 167°F) 寬工作溫度範圍  
無風扇設計  
高等級抗衝擊、防震動與抗電磁波干擾

### + 安規

UL 61010 安全認證

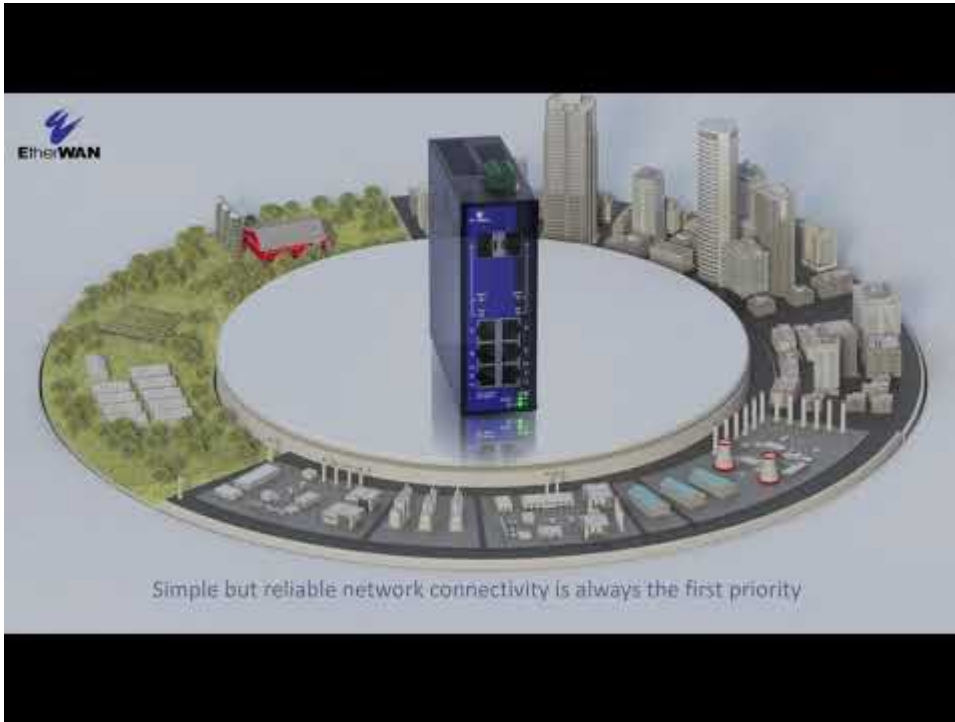
### + 支援多種管理選項

網頁管理界面 (HTTP/HTTPS)  
使用者權限管理 (角色類型)  
SNMP v1/v2/v3  
命令列界面 (CLI, Telnet, SSH)

### + 支援

提供技術支援  
免費韌體升級

## 介紹影片



## 軟體功能

### + Interface

CLI, Telnet, Web GUI, SSH

### + Management

Firmware upgrade  
Configuration backup  
RMON (Remote Monitoring, SNMP only)  
Port mirroring  
SNTP (Simple Network Time Protocol) synchronization  
LLDP (Link Layer Discovery Protocol)  
IPv4  
SNMP v1/v2c/v3  
DHCP Option 82, DHCP Server/Client

### + Security

MAC Address filtering  
Enable/Disable port  
Storm Control  
System Logging  
IEEE 802.1x LAN Access Control  
IEEE 802.1x RADIUS Authentication  
Complex password support  
SSH for CLI and Telnet security  
SSL and HTTPS for Web security

### + Quality of Service (QoS)

Priority Queues: 8 queues per port  
Traffic classification based on IEEE 802.1p CoS (Cost of Service), DSCP (Differentiated Services Code Point), WRR (Weighted Round Robin) and strict mode

### + Layer 2 Features

**Auto-negotiation for port speed and duplex mode**  
Flow Control  
IEEE 802.3x full duplex mode  
Back-pressure half duplex mode

#### **Redundant Protocols**

IEEE 802.1w RSTP  
Large Tree Support  
Fast Ring Detection

#### **VLANs**

IEEE 802.1Q Tag VLANs

#### **Link Aggregation**

Static Trunk (4 groups)  
IEEE 802.3ad LACP

IGMP Snooping v1/v2

### + Software Properties and Performance

#### **Total VLAN Entries**

32

#### **Jumbo Frame Size**

9K bytes (Gigabit Ethernet Models only)

## 硬體規格

### + Interface

#### Ethernet

10/100BASE-T(X): 5, 6, 8, 14, or 16 ports

100BASE SFP: 0, or 2 ports

10/100/1000BASE-T(X): 6, 8, 12, or 16 ports

100/1000BASE SFP: 0, 2, or 4 ports

#### Alarm Contact

1 x Digital output, current capacity

Typ. 100mA, Max. 0.7A (1minute)

#### LED Indicators

Per Unit: Power 1 (Green), Power 2 (Green), Alarm (Red)

Per Port: Link/Activity (Green; Orange: when SFP link at Combo port), Speed (Off: 10Mbps; Green: 100Mbps; Orange: 1000Mbps)

#### Mode Button

Exiting reset mode without changes

Resetting to the factory settings

Operating with a fixed IP address

Resetting the IP configuration

Operating in unmanaged mode

### + Technology

#### Standards

IEEE 802.3 10BASE-T

IEEE 802.3u 100BASE-TX/100BASE-FX

IEEE 802.3ab 1000BASE-T

IEEE 802.3z 1000BASE-SX/1000BASE-LX

IEEE 802.3x Full duplex and flow control

IEEE 802.3ad LACP

IEEE 802.1p QoS

IEEE 802.1Q Tag VLANs

IEEE 802.1w RSTP

IEEE 802.1ab LLDP

IEEE 802.1x Port-based Network Access Control

#### Forward/Filtering Rate

14,880pps for 10Mbps

148,880pps for 100Mbps

1,488,000pps for 1000Mbps

#### Processing Type

Store-and-Forward

Auto-Negotiation

Half-duplex back-pressure full-duplex flow control

Auto MDI/MDIX

#### System Memory

4M bits

Flash Storage  
8K MAC

## + Power

Input  
12-57VDC Redundant

Power Consumption  
8 ports: 8.55W Max  
16 ports: 11.4W Max

Protection  
Reverse Polarity Protection

## + Physical

**Casing Material**  
Metal

**IP Rating**  
IP30

**Dimensions**  
5, 8 ports: 45 x 125.5 x 130mm (W x D x H)  
16 ports: 85 x 125.5 x 130mm (W x D x H)

**Weight**  
8 ports, 388g  
16 ports, 676g

**Installation Type**  
DIN-Rail  
Panel mounting (Optional)

## + Environmental

**Operating Temp.**  
-40 to 75°C (-40 to 167°F)

**Storage Temp.**  
-40 to 85°C (-40 to 185°F)

**Relative Humidity**  
10% to 95% (non-condensing)

**MTBF**  
8 ports: 2,937,277.25 hours  
16 ports: 2,255,206 hours

## + Regulatory

**ISO**  
Manufactured in ISO-9001 facility

**EMI**  
FCC Part 15B Class A  
VCCI Class A  
ICES-003  
EN 61000-6-4

**EMS**  
EN 61000-3-2  
EN 61000-3-3  
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

**Vibration**  
IEC 60068-2-6

**Shock**  
IEC 60068-2-27

**Free Fall**  
FED STD 101C Method 5007.1

## + Warranty

**Length**  
3 Years

**Details**  
[www.etherwan.com/support/warranty-policy](http://www.etherwan.com/support/warranty-policy)

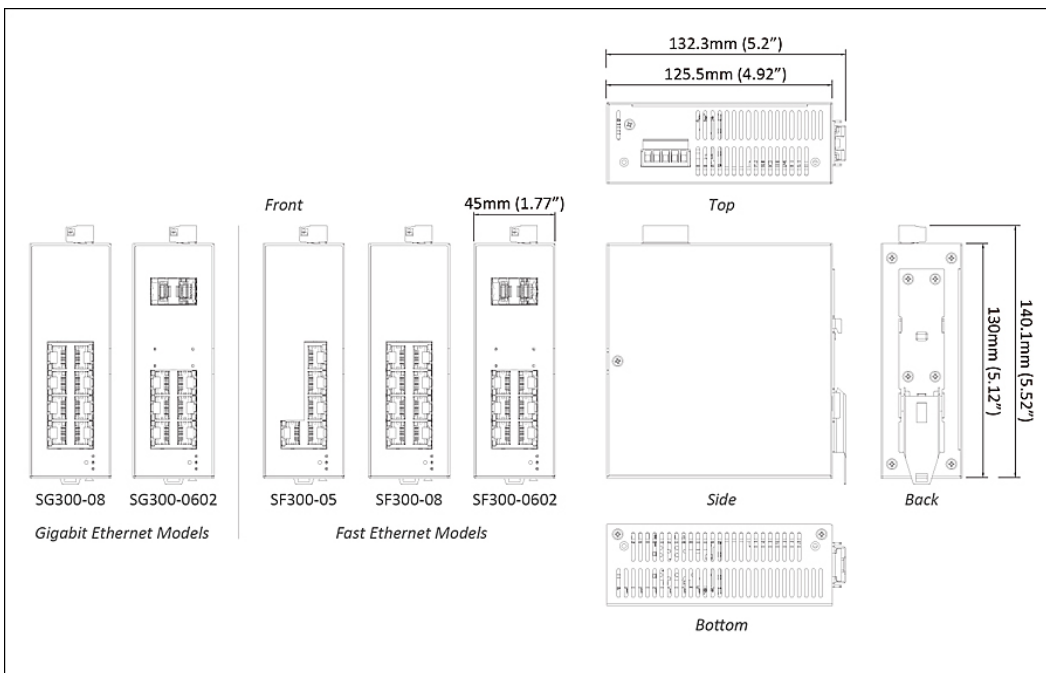
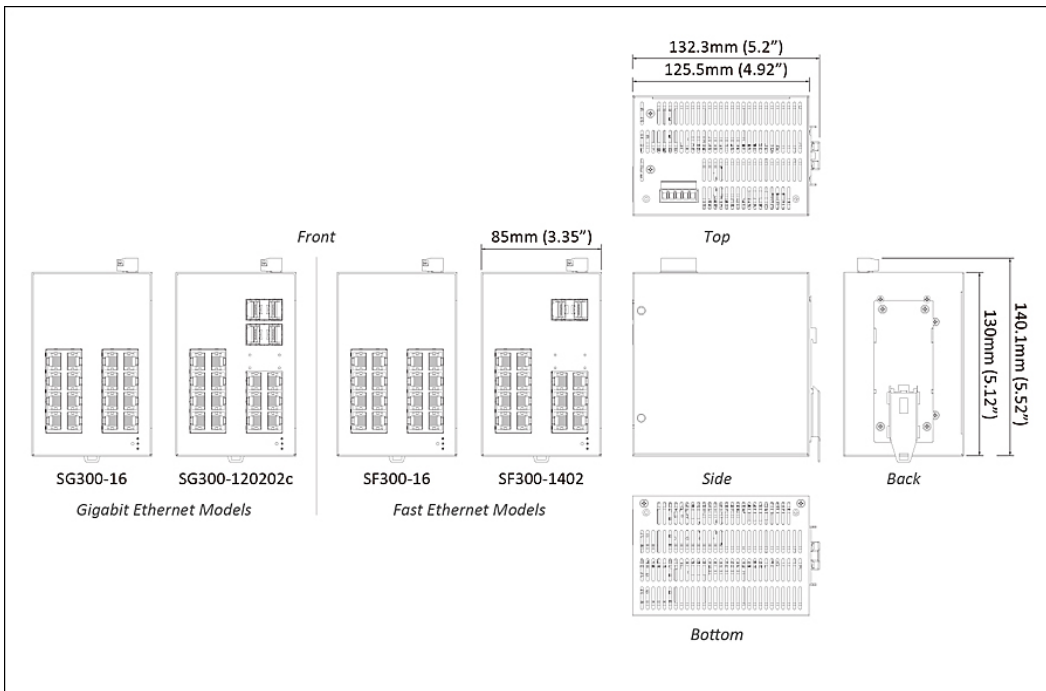
## + What's Included

**Device**  
Ethernet switch

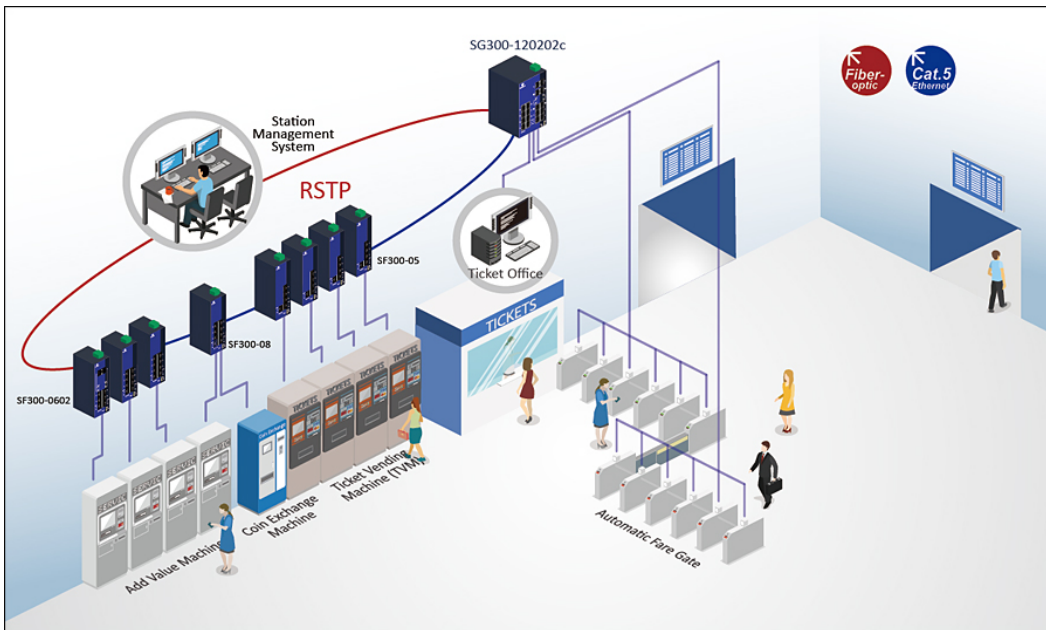
**Installation**  
DIN-Rail bracket, screws

**Documentation**  
Quick install guide

# 產品尺寸圖



## 應用圖



## 訂購型號

### + Model

Fast Ethernet 型號

SF300-05	5埠 10/100BASE-T(X)
SF300-08	8埠 10/100BASE-T(X)
SF300-0602	6埠 10/100BASE-T(X) + 2埠 100BASE SFP
SF300-16	16埠 10/100BASE-T(X)
SF300-1402	14埠 10/100BASE-T(X) + 2埠 100BASE SFP

Gigabit Ethernet Models

SG300-08	8埠 10/100/1000BASE-T(X)
SG300-0602	6埠 10/100/1000BASE-T(X) + 2埠 100/1000BASE SFP
SG300-16	16埠 10/100/1000BASE-T(X)
SG300-120202c	12埠 10/100/1000BASE-T(X) + 2埠 100/1000BASE SFP Combo + 2埠 100/1000BASE SFP

### + 配件選購

強固級 100BASE SFP 模組  
 強固級 Gigabit SFP 模組  
 安裝配件

[www.etherwan.com/tw/products/sfp-fiber-transceiver](http://www.etherwan.com/tw/products/sfp-fiber-transceiver)

[www.etherwan.com/tw/products/sfp-fiber-transceiver](http://www.etherwan.com/tw/products/sfp-fiber-transceiver)

[www.etherwan.com/tw/products/mounting-kits](http://www.etherwan.com/tw/products/mounting-kits)

» KP-AA96-480

» KP-S300



