

SmartE 系列

強固級網管型 5-16埠乙太網路交換器



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

+ 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)

+ 安規

- UL 61010 安全認證

+ 支援

- 提供技術支援
- 免費韌體升級

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
MRP (Manager/Client)

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

+ 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)

+ 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
IEC 62439-2 MRP (Media Redundancy Protocol)

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

+ 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

+ What's Included

Device

Ethernet switch

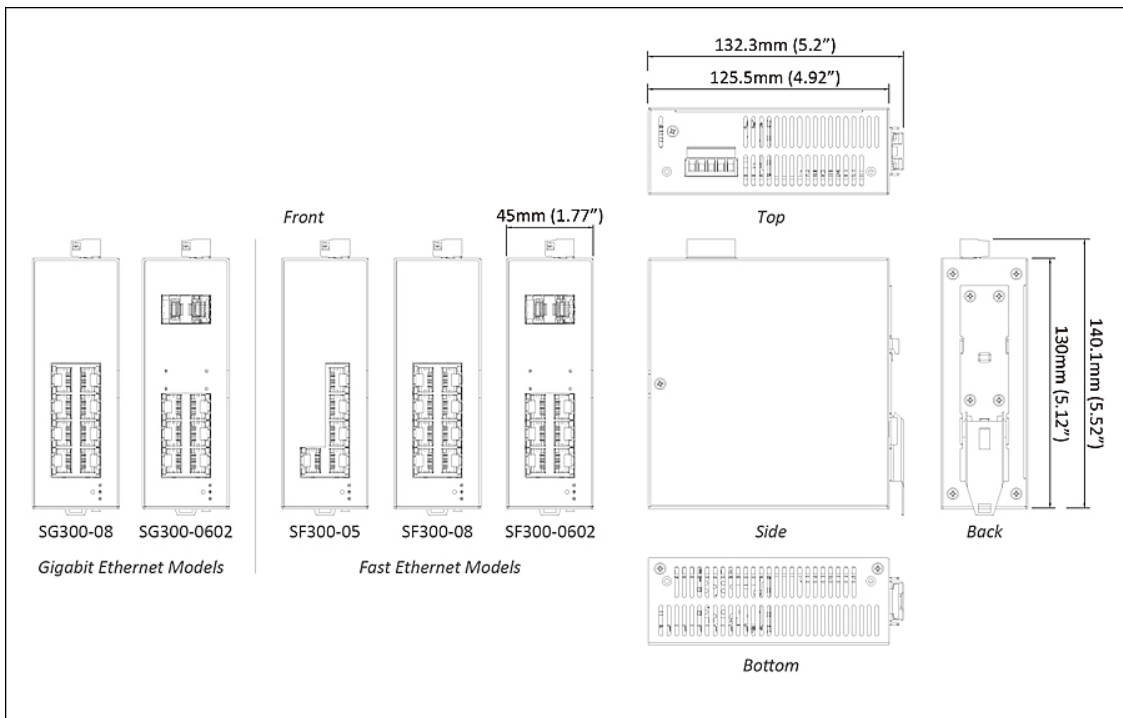
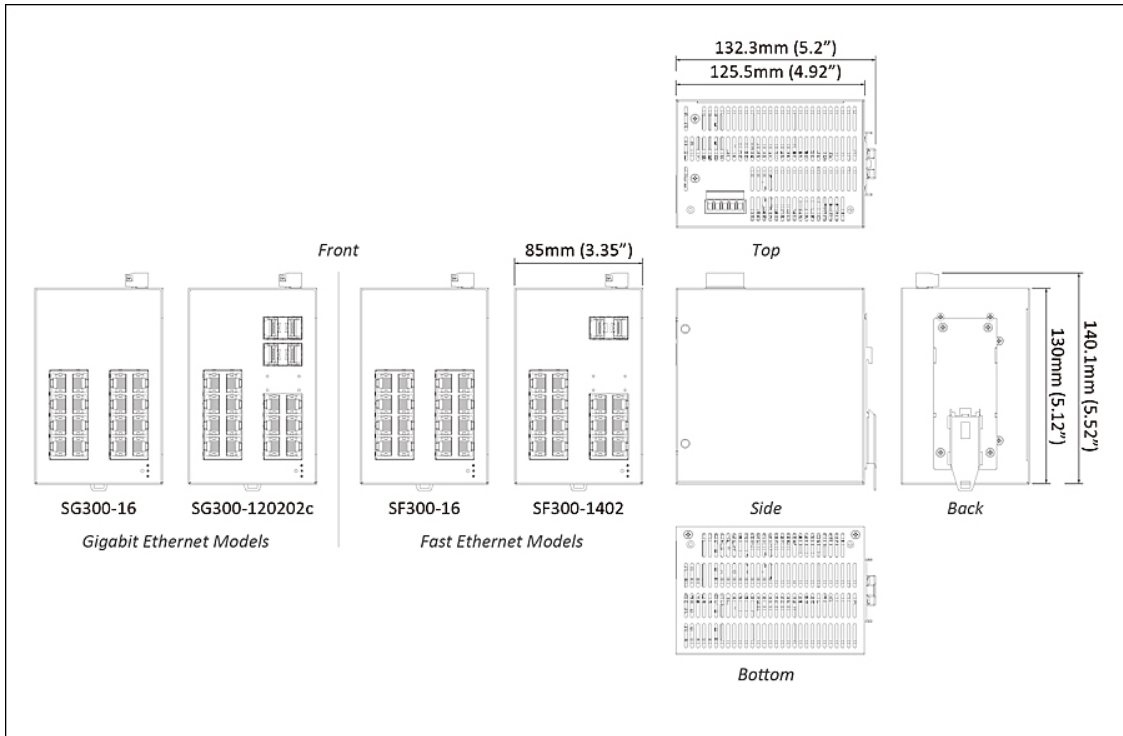
Installation

DIN-Rail bracket, screws

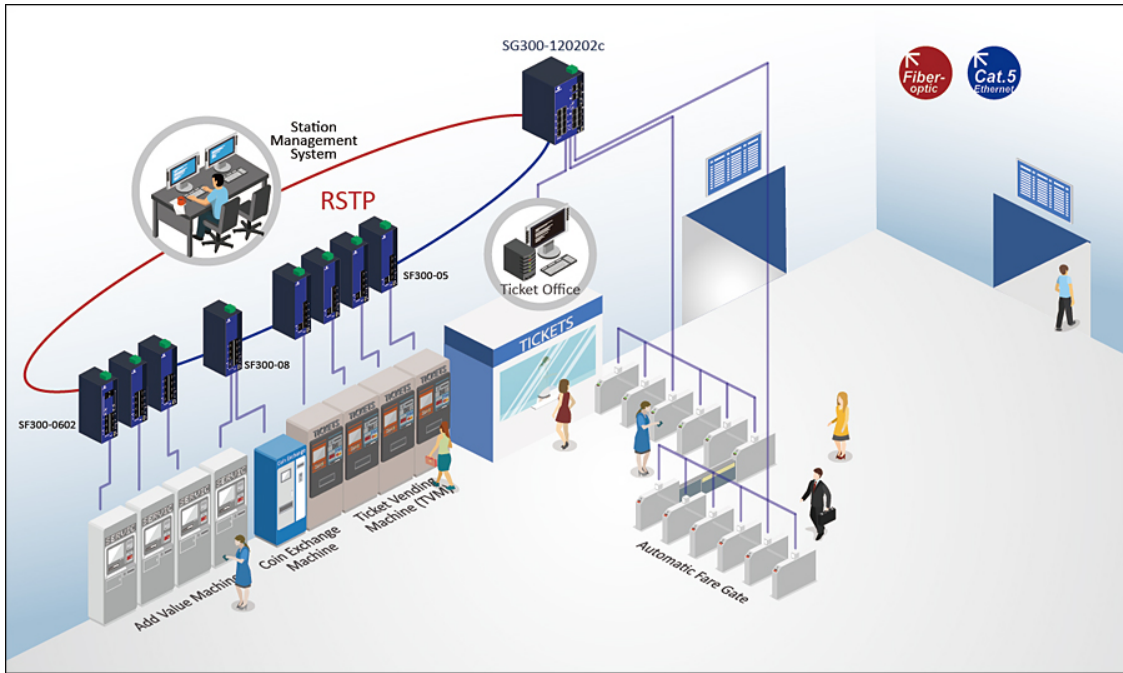
Documentation

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	www.etherwan.com/tw/products/sfp-fiber-transceiver
強固級 Gigabit SFP 模組	www.etherwan.com/tw/products/sfp-fiber-transceiver
安裝配件	www.etherwan.com/tw/products/mounting-kits
» KP-AA96-480	
» KP-S300	

