

SmartE 系列

強固級網管型 5-16 埠 Fast/Gigabit 乙太網路交換器



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) 的寬工作溫度範圍
 - 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

產品介紹

SmartE 系列是強固級 Layer 2 網管型乙太網路交換器。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 Layer 2 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。

訂購型號

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 型號

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

軟體功能

Interface	+
CLI, Telnet, Web GUI	
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	

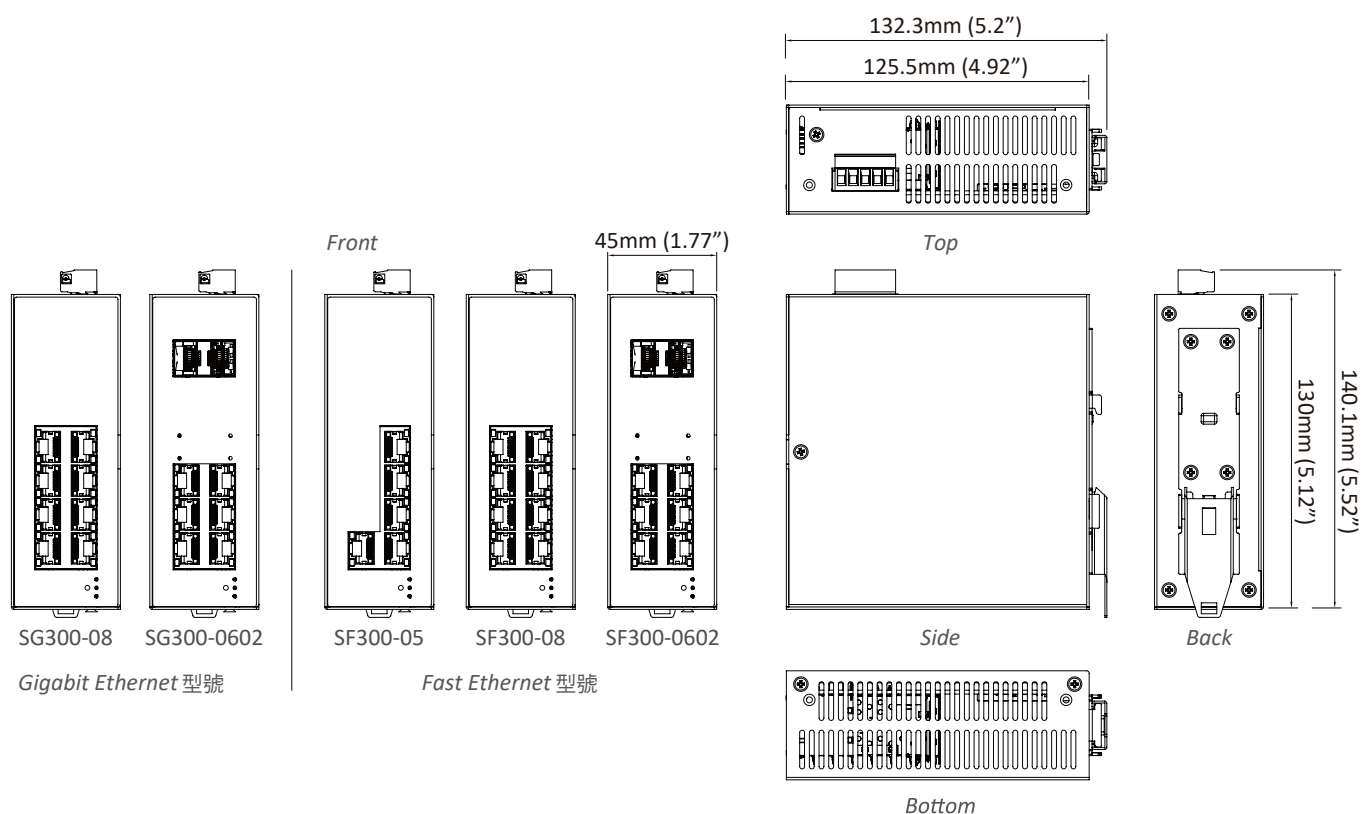
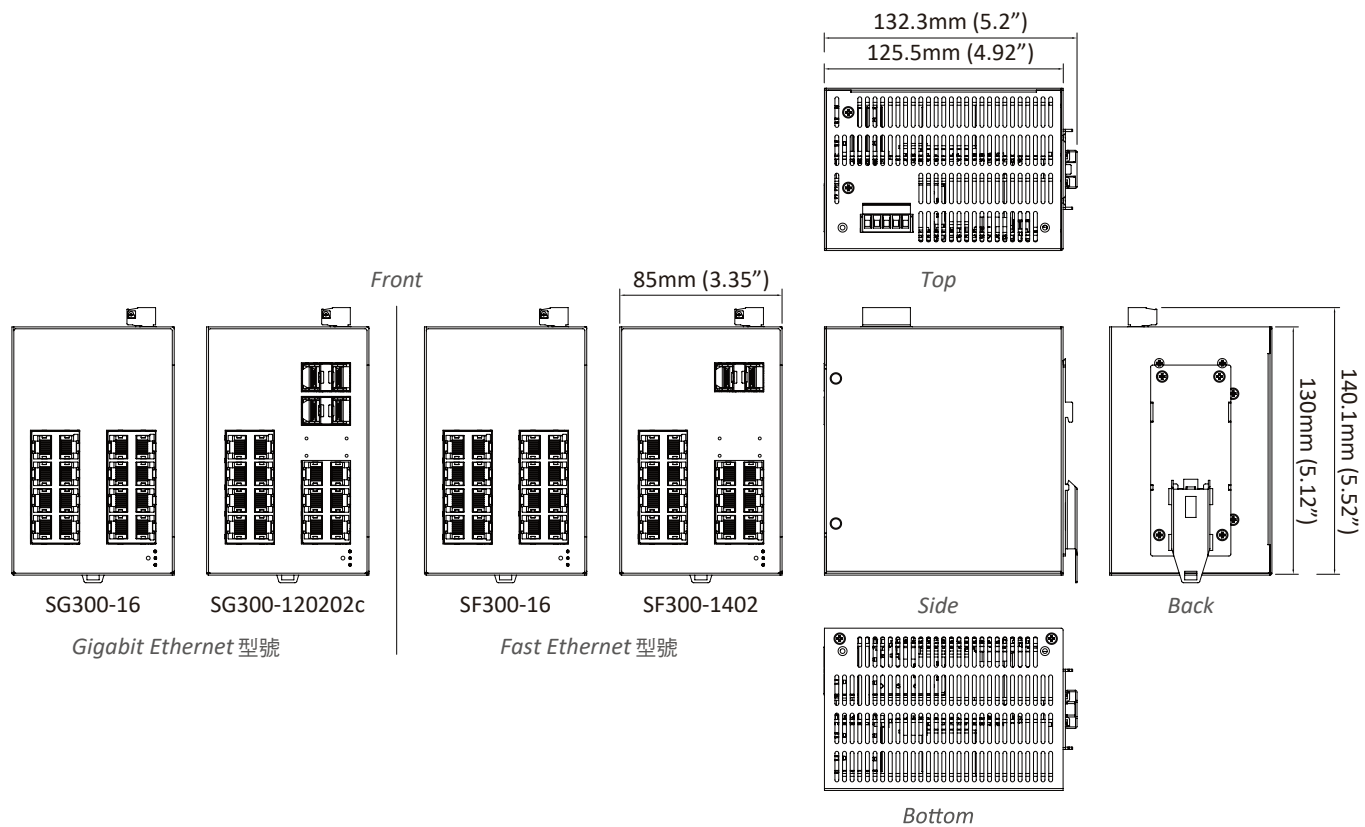
Quality of Service (QoS)	+
Priority Queues: 8 queues per port	
Traffic classification based on IEEE 802.1p CoS (Cost of Service), DSCP (Differentiated Services Code Point), WRR (Weighted Round Robin) and strict mode	
Layer 2 Features	+
Auto-negotiation for port speed and duplex mode	Flow Control IEEE 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)* *MRP will be available in Q1, 2023
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

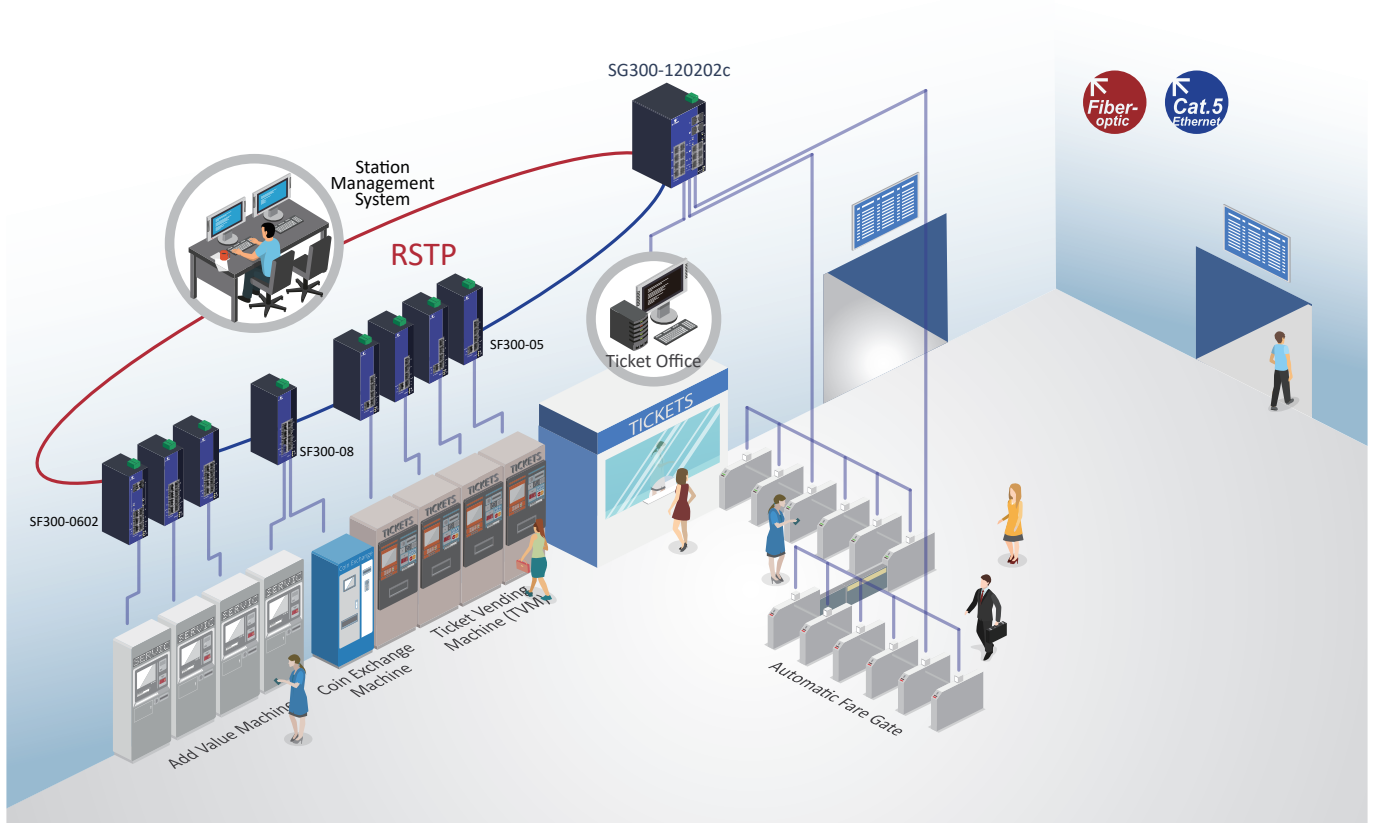
Interface		+
Ethernet	10/100BASE-T(X): 5, 6, 8, 14, or 16 ports 100BASE SFP: 0, or 2 ports 10/100/1000BASE-T(X): 6, 8, 12, or 16 ports 100/1000BASE SFP: 0, 2, or 4 ports	
Alarm Contact	1 x Digital output, current capacity Typ. 100mA, Max. 0.7A (1 minute)	
LED Indicators	Per Unit: Power 1 (Green), Power 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 IEC 62439-2 MRP (Media Redundancy Protocol)* *MRP will be available in Q1, 2023	
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	
Address Table Size	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.	-45 to 85°C (-49 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



應用案例



配件選購

強固級 100BASE SFP 模組	+
www.etherwan.com/products/sfp-fiber-transceiver	
強固級 Gigabit SFP 模組	+
www.etherwan.com/products/sfp-fiber-transceiver	

安裝配件選購

型號	配件照片	+
KP-AA96-480		
KP-S300		

*更多資訊: www.etherwan.com/products/mounting-kits