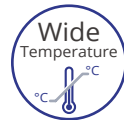


SmartE Series

Hardened Lite Managed 5 to 16-port Fast/Gigabit Ethernet Switch



Product Highlights

➔ Hardened Grade for Non-Ventilated & Harsh Environments

- Wide operating temperature -40 to 75°C (-40 to 167°F)
- Fanless design
- High impact, shock, and electrical noise resistance

➔ Compliance

- UL 61010 certified for safety

➔ Multiple Management Options

- Web-based management (HTTP/HTTPS)
- Role-based user management
- SNMP v1/v2/v3
- Command-line interface (Telnet, SSH)

➔ Support

- Complimentary Technical Support
- Free Firmware Upgrades

Overview

The SmartE series is a portfolio of hardened lite managed Ethernet switches. SmartE offers a key set of Layer 2 management features that are perfect for supporting network connectivity for edge applications even in extreme environments. With a wide range of models available in both Fast Ethernet and Gigabit Ethernet configurations, offering up to 16 Ethernet ports and 2 optional SFP ports for network expansion, the SmartE series provides a reliable and cost-effective network management solution for critical applications.

Ordering Information

Fast Ethernet Models

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

Gigabit Ethernet Models

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

* DIN-Rail mounting kit included.

Software Features

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	

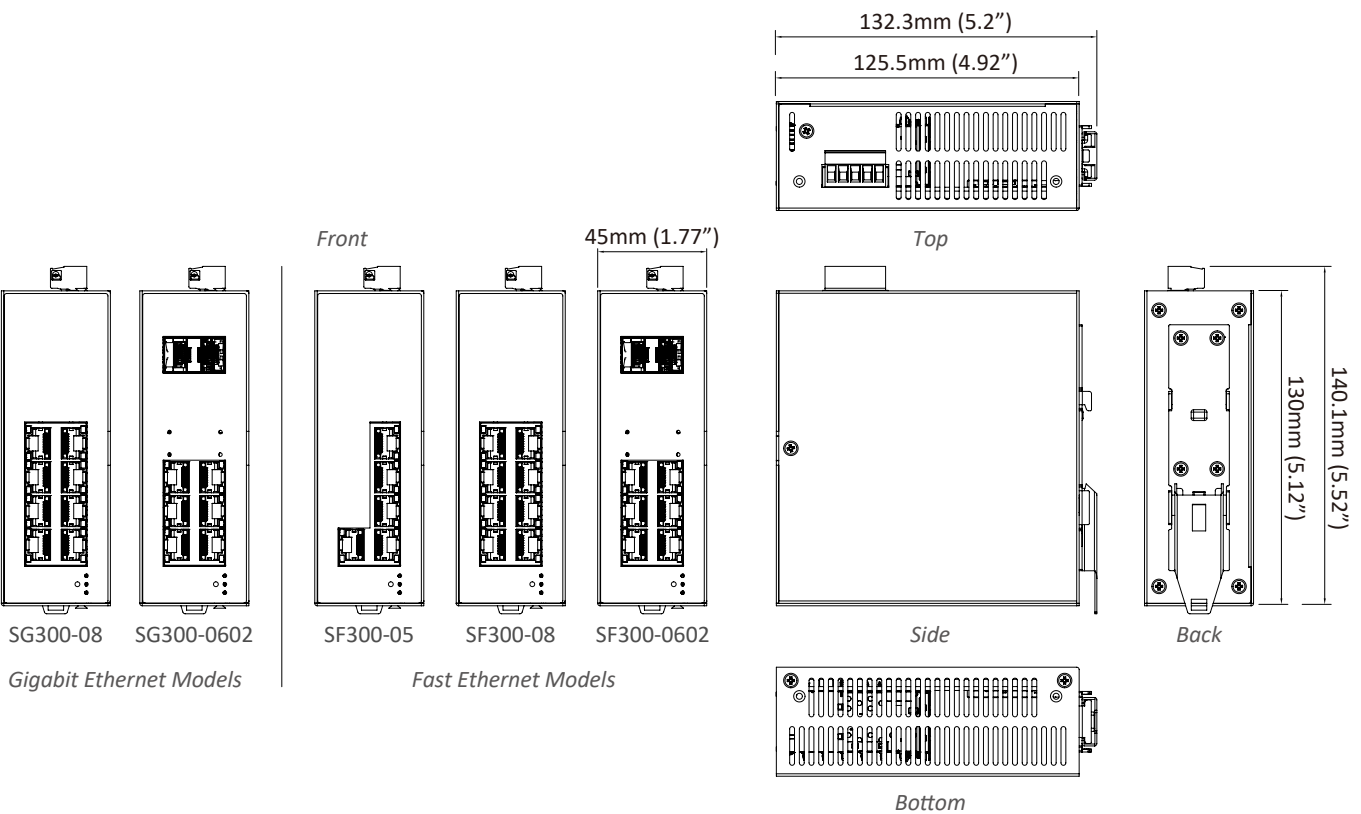
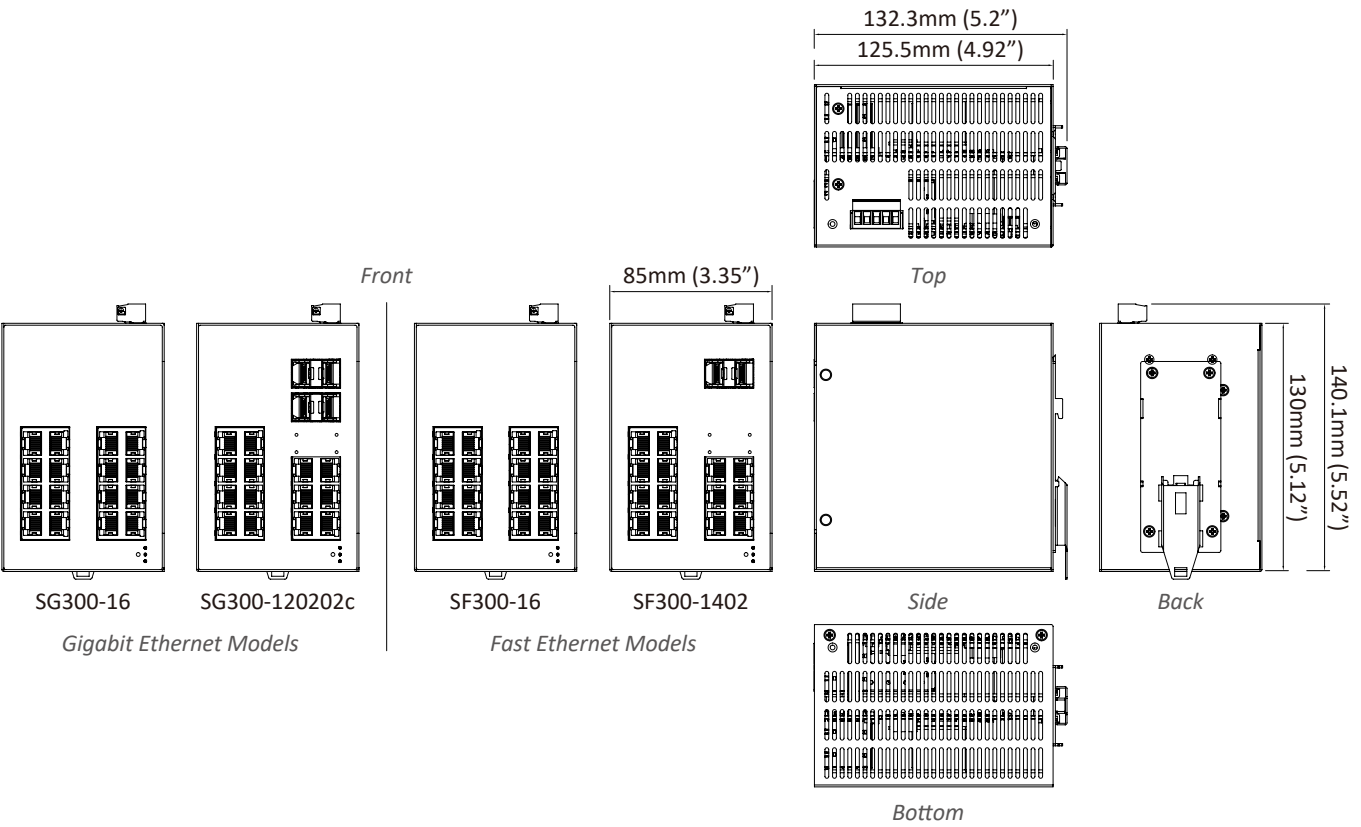
Quality of Service (QoS)	+
Priority Queues: 8 queues per port	
Traffic classification based on IEEE 802.1p CoS (Cost of Service), DSCP (Differentiated Services Code Point), WRR (Weighted Round Robin) and strict mode	
Layer 2 Features	+
Auto-negotiation for port speed and duplex mode	Flow Control IEEE 802.3x full duplex mode Back-pressure half duplex mode
Redundant Protocols	IEEE 802.1w RSTP Large Tree Support Fast Ring Detection
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)

Hardware Specifications

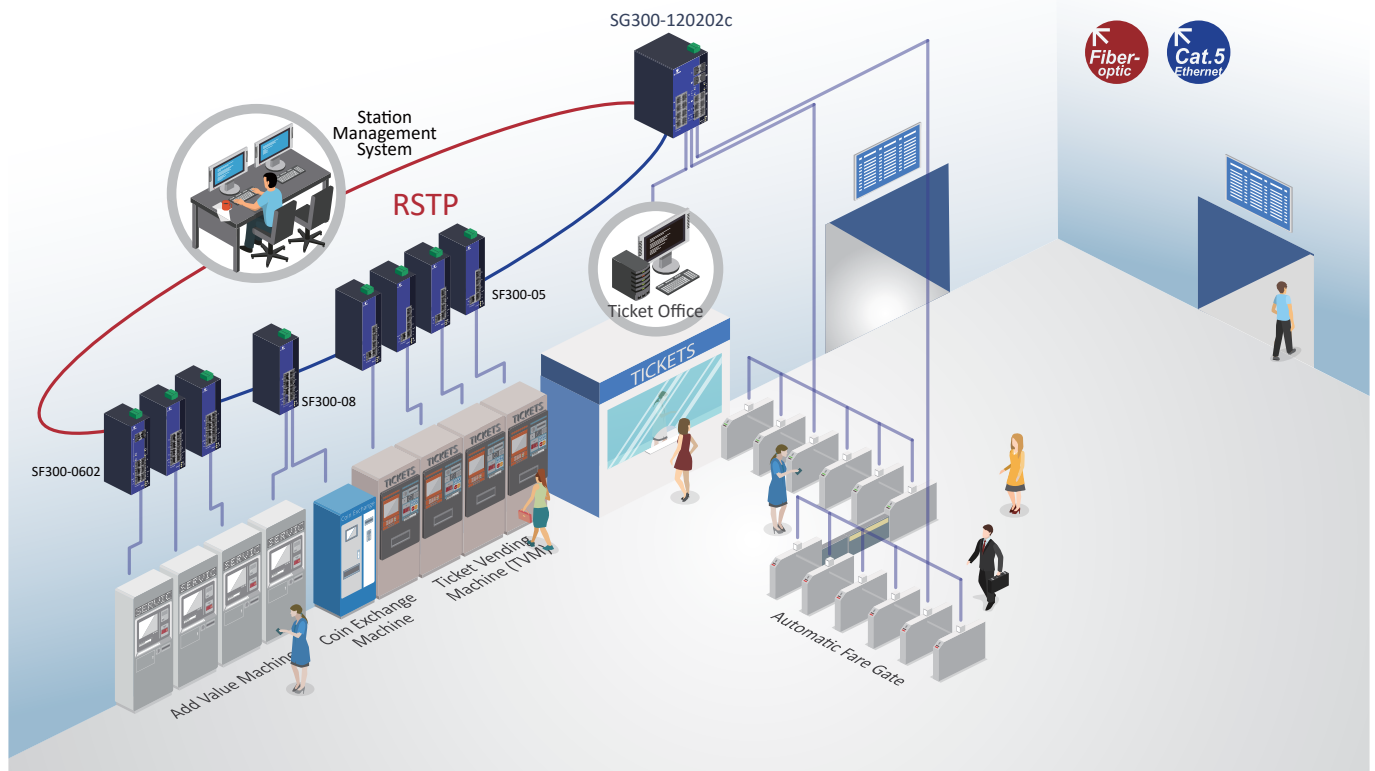
Interface +	
Ethernet	10/100BASE-T(X): 5, 6, 8, 14, or 16 ports
	100BASE SFP: 0, or 2 ports
	10/100/1000BASE-T(X): 6, 8, 12, or 16 ports
	100/1000BASE SFP: 0, 2, or 4 ports
Alarm Contact	1 x Digital output, current capacity 1A/24VDC
LED Indicators	Per Unit: Power 1 (Green), Power 2 (Green), Alarm (Red)
	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
Address Table Size	8K MAC
Power +	
Input	12-57VDC Redundant
Power consumption	8Port: 8.55W Max 16Port: 11.4W Max
Protection	Reverse Polarity Protection

Physical +	
Casing Material	Metal
IP Rating	IP30
Dimensions	5, 8 port: 45 x 125.5 x 130mm (W x D x H)
	16 port: 85 x 125.5 x 130mm (W x D x H)
Weight	TBD
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	5% to 95% (non-condensing)
MTBF	8Port: 2,937,277.25 hours
	16Port: 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

Dimensions



Application



Accessories

Hardened 100BASE SFP Modules	+
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www.etherwan.com/products/sfp-fiber-transceiver	
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Hardened Gigabit SFP Modules	+
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www.etherwan.com/products/sfp-fiber-transceiver	
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Flat Panel Mounting Kit	+
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www.etherwan.com/products/mounting-kits	
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