

SmartE シリーズ

広範囲動作温度対応産業用5～16ポート ファースト/ギガビット イーサネットスイッチ



概要

The SmartE series is a portfolio of hardened Layer 2 managed Ethernet switches. SmartE provides two mounting methods, DIN-rail and wall mounting, and comes in a fanless design that incorporates industrial grade components. This allows the SmartE to provide industrial-grade reliability and reliable operation in wide temperature ranges (-40 to 75 degrees C). By offering Layer 2 management features that are perfect for supporting network connectivity for industrial edge applications even in industrial and harsh environments. The SmartE Layer 2 Ethernet switches are available in both Fast Ethernet and Gigabit Ethernet configurations, offering 5 port, 8 port, or 16 port 10/100 or gigabit Ethernet copper ports, and 2 optional SFP fiber ports for network expansion, the SmartE series provides a reliable Layer 2 management network solution for critical applications.

EtherWAN — "When Connectivity is Crucial."

特長

+ 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

機能

+ 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)

仕様

+ 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

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

+ 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

IEC 60068-2-32

+ Warranty

Length

3 Years

Details

www.etherwan.com/support/warranty-policy

+ What's Included

Device

Ethernet switch

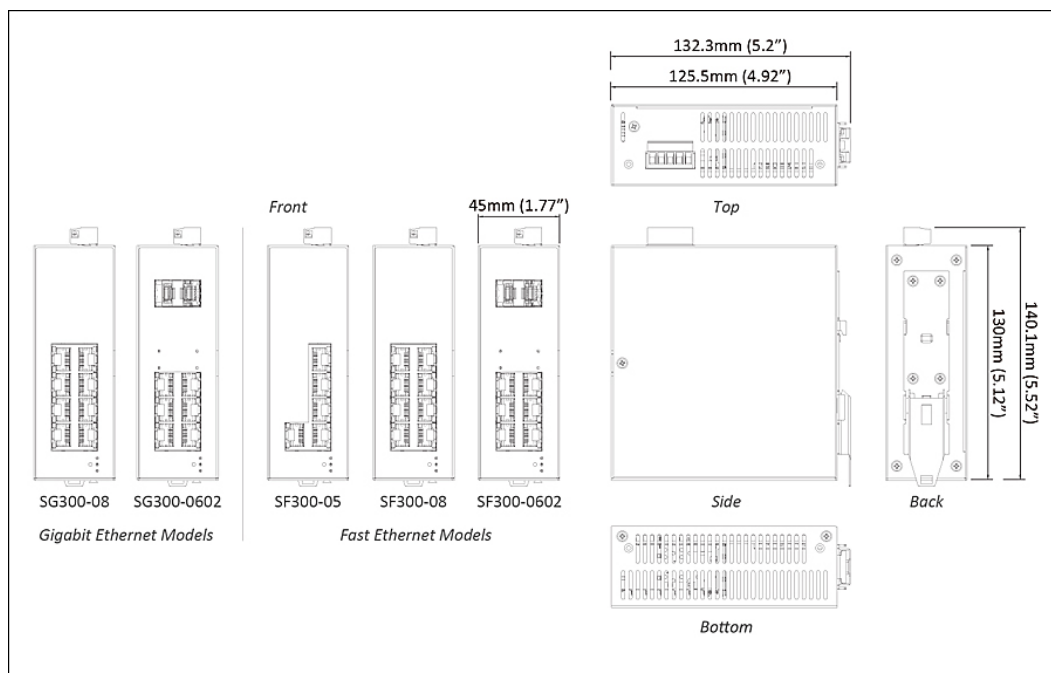
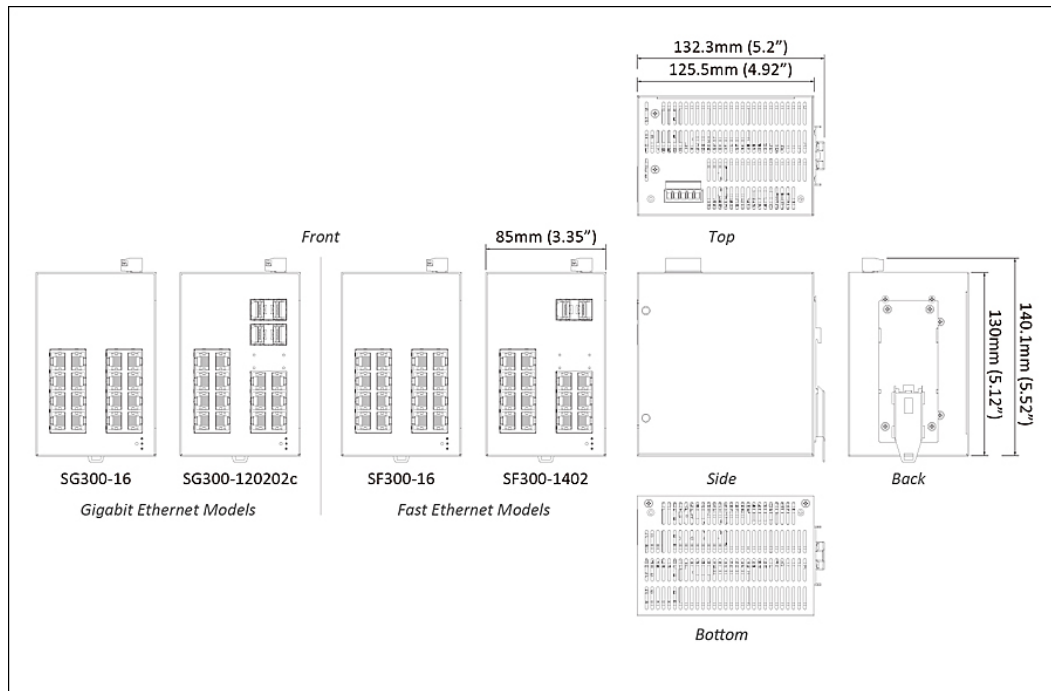
Installation

DIN-Rail bracket, screws

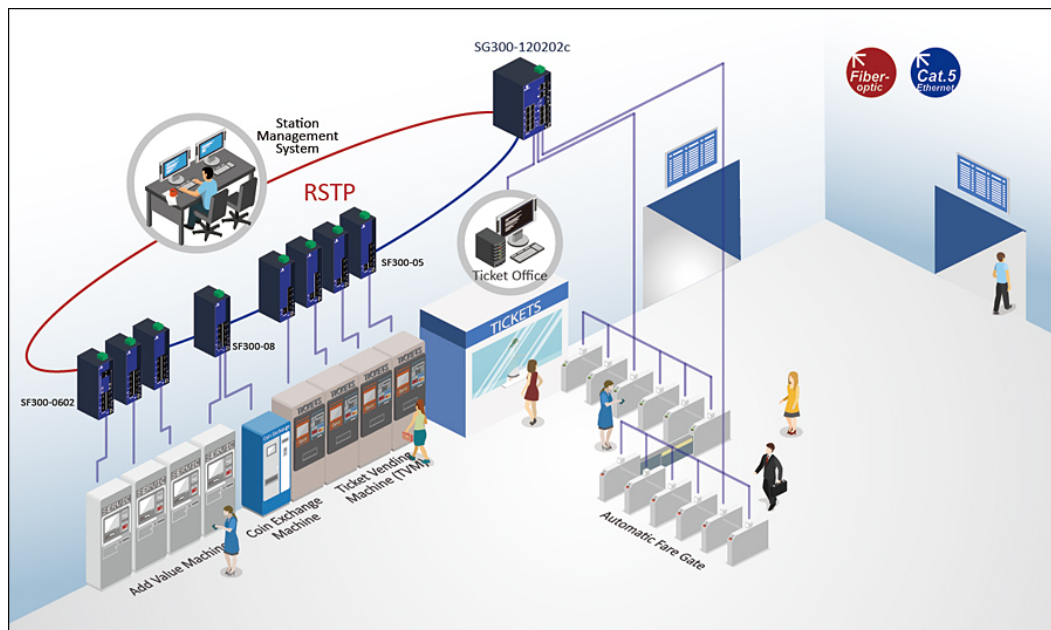
Documentation

Quick install guide

寸法図



応用例



製品型番

+ Model

Gigabit Ethernet Models



SG300-08



SG300-0602

10/100/1000BASE T(X)	8	6
1G SFP	-	2
	お問い合わせ	お問い合わせ

Gigabit Ethernet Models - SF300 Series EOL Notice ([Click here](#))

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

Fast Ethernet Models - SF300 Series EOL Notice ([Click here](#))

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

+ Accessories

Hardened 100BASE SFP Modules	www.etherwan.com/jp/products/sfp-fiber-transceiver
Hardened /jpGigabit SFP Modules	www.etherwan.com/jp/products/sfp-fiber-transceiver
Panel Mounting Kit	www.etherwan.com/jp/products/mounting-kits
» KP-AA96-480	
» KP-S300	



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