FS S3400C Series Switches Data Sheet

Contents

Product overview

FS S3400C Series Switches are high-performance enterprise switches with half-width form factor, supporting Gigabit and 2.5GE, uplink 10G SFP+ port, and compact 1U shape. The switch combines advanced hardware and software to provide solutions for the next generation of home /SMB/ enterprise /Wi-Fi 6 access/high-speed NAS networks.

The S3400C-24MG4S is a Layer 2+ managed switch with 24x 100M/1000M/2.5GBase-T ports and 2x 10Gb SFP+ uplink ports in a compact half-width form factor. This powerful switch provides 200 Gbps switching capacity and 148.8 Mbps forwarding rate. It adopts an intelligent fan speed control scheme and silent design to create a green energy-saving network. The switch has advanced security features, high-end port density, easy management, and combines advanced hardware and software, making it ideal for next-generation SMB, enterprise, Wi-Fi 6AX access, and high-speed NAS networks.

The S3400C-24MG4S-P is a L2+ managed switch, equipped with 24x 2.5Gb RJ45 and 4x 10Gb SFP+ uplink ports support both IEEE 802.3af PoE and IEEE 802.3at PoE+ (up to 30W per port) for powering attached wireless access points, IP cameras or other standards-compliant PoE and PoE+ end network devices. And it provides 200 Gbps switching capacity and 148.8Mbps forwarding rate. The switch features a compact half-width form factor, adopting intelligent fan speed control scheme and silent design to create a green and energy-saving network. It provides enhanced Layer 2 functions, simplified management, and diversified multicast protocols, and is an ideal choice for small organizations.

Product highlights

- The Half-width Form Factor Enables Redundant Top-of-rack
- Intelligent Fans Configurable in Quiet Mode to Minimize Noise
- Support LACP, VLANS, ACL, QoS, DHCP Snooping, etc.
- Support 802.1X, RADIUS, TACACS+, AAA and ACL for Security
- Support CLI/WEB/SNMP/SSH for Flexible Operation
- Up to 24 PoE+ Ports, Total Budget 380W （Only for S3400C-24MG4S-P Switch）

Platform details

Switch models and configurations

Figures 1 through 2 show the FS S3400C series switches.

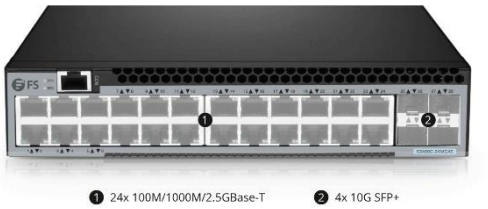

Figure 1.
S3400C-24MG4S, 24-Port Ethernet L2+ Switch, 24 x 100M/1000M/2.5GBase-T/Multi-Gigabit, with 4 x 10Gb SFP+ Uplinks

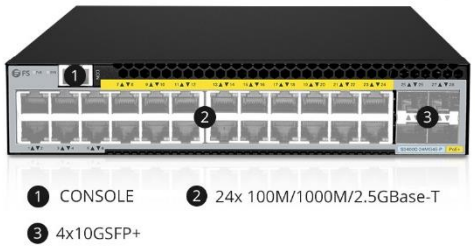

Figure 2.
S3400C-24MG4S-P, 24-Port Ethernet L2+ PoE+ Switch, 24 x 2.5GBASE-T/Multi-Gigabit, with 4 x 10Gb SFP+ Uplinks

Switch configurations and port density

Table 1 shows the FS S3400C series configurations and port density.

Table 1. Switch configuration and port density

FS P/N	S3400C-24MG4S	S3400C-24MG4S-P
Description	24-Port Ethernet L2+ Switch, 24 x 100M/1000M/2.5GBase-T/Multi-Gigabit, with 4 x 10Gb SFP+ Uplinks	24-Port Ethernet L2+ PoE+ Switch, 24 x 2.5GBASE-T/Multi-Gigabit, with 4 x 10Gb SFP+ Uplinks
Port		
2.5G port density	24	24
10G port density	4	4
Console port	1	1
Memory and processor		
Switch chip	RTL9313	RTL9313
CPU	MIPS dual/core@1GHz	MIPS dual/core@1GHz
SDRAM	512MB	512MB
Flash memory	32MB	32MB
Latency	2.5 ~7μs	2.5 ~7μs
Packet buffer	16MB	16MB

Note:

RJ45 ports can be used as 100M/1/2.5/5/10G ports for Ethernet connection, does not support 1G-T copper transceivers.
SFP+ ports can be used for 1/10G connection.
SFP28 can be used for 10/25G connection.
QSFP+ can be used for 40G or 4x 10G connection.
QSFP28 can be used for 40G/100G or 4x10G/4x25G connection.

Power supplies and fans

Table 2 provides more details on the FS S3400C series power supplies and fan specifications.

Table 2. Power supply and fan specifications

Description	S3400C-24MG4S	S3400C-24MG4S-P
Power supply	1 Built-in	1 Built-in
Fan number	3 Built-in	3 Built-in
Airflow	Front-to-Back	Front-to-Back
Acoustic noise	44.53dB	52.87dB
Maximum fan speed	27.9	25.76
Max. power consumption	150W	480W
Input-voltage range and frequency	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz
Power supply efficiency	≧0.88%	≧0.88%
Input current	2.5A	8A
Output ratings	12V/12.5A	54.5V/7.34A, 12V/7.0A
Power-supply input receptacles	AC01	AC01
Power cord rating	10A 250VAC	10A 250VAC
PoE standard	-	IEEE 802.3af/at
PoE Budget	-	380W

Table 3 lists the power cord information.

Table 3. Power cord information of S3400C Series Switches

Countries	Power Cord Standard	Male Plug	Female Connector	Voltage Compatibility
United States, Canada, Mexico, Puerto Rico, Guam, Japan, Virgin Islands (U.S.)	US	NEMA 5-15P	IEC60320 C13	100-250VAC
United Kingdom, Hong Kong, Singapore, Malaysia, Maldives, Qatar, India	UK	BS1363	IEC60320 C13	100-250VAC
Continental Europe, South Africa, Switzerland, Italy, Indonesia	EU	CEE 7	IEC60320 C13	100-250VAC
China, Australia, New Zealand, Argentina	CN	GB16A	IEC60320 C13	100-250VAC

Note:

Power cords are matched according to the delivery destination.

Switch performance

Table 4 shows performance specifications for the FS S3400C series switches.

Table 4. Performance specifications

Performance for all S3400C Series Switches	S3400C-24MG4S	S3400C-24MG4S-P
Switching capacity	200Gbps	200Gbps
Forwarding rate	148.8Mbps	148.8Mbps
Total number of MAC addresses	32K	32K
Total number of IPv4 routes (indirect routes)	5k	5k
Total number of IPv4 host routes (direct routes and ARP)	10k	10k
Total number of IPv6 routes (indirect routes)	5k	5k
Total number of IPv6 host routes (direct routes and NDP)	10k	10k
QoS scale	8 queues per port	8 queues per port
ACL scale	512	512
Ingress port ACL for IPv4	128	128
Egress port ACL for IPv4	128	128
STP virtual ports (port*VLANs) for MST	16	16
Total switched virtual interfaces(SVIs)	32	32
VLAN IDs	4K	4K
Jumbo frame	10000	10000

Platform benefits

Table 5 lists the software spotlights for the FS S3400C series switches.

Table 5. Software spotlights

Functionality	Description
For Wi-Fi 6 wireless APs (Only for S3400C-24MG4S-P switch)	Support 100M/1000M/2.5G Base-T adaptive Ethernet ports All RJ45 ports support IEEE 802.3at 30W PoE
Sound Security Protection Policies	Support IEEE 802.1x, Radius and TACACS+ perfect security authentication mechanisms Support DHCP snooping Support SSH V1/2, HTTPS and SSL Support IP Source Guard, DoS Protection Support IPv4/IPv6/MAC ACL
QoS	Support classifying and controlling various flows Support 802.1p, IP ToS, IP DSCP, SP, WRR Support flow bandwidth control, forwarding priority, and other flow policies
Easy Network Maintenance	Support CLI via console port or Telnet Support Web management, HTTP/HTTPS, Telnet, SSH Support SNMP v1, v2c, v3 Support firmware auto upgrade RMON Support MIB II, LLDP (802.1ab)
High Reliability	Support IEEE 802.1D Spanning Tree Protocol (STP) Support IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) Support IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) Support BPDU Guard/filtering/transparent Support Root Guard and Loopback detection Support FTP, TFTP and SFTP
Strong Multi-Service Support Capability	Support the IPv4 and IPv6 multicast functions Support IGMP v1/v2/v3, IGMP snooping, MLD Support 4K Active VLAN, Voice VLAN, MAC VLAN, GVRP Support Link aggregation, DHCP and ERPS Support Broadcast/Multicast/ Unknown Unicast Storm Control Support Dynamic Arp Inspection, UDLD
IP Routing	Support IPv4 VLAN Interface, IPv4 Static Routes, ARP Support IPv6 VLAN Interface, IPv6 Static Routes, IPv6 ND Support RIP V1/V2, OSFP Router-ID, Authentication, OSFP V2 "
Standards Compliance	IEEE 802.3x flow control and back pressure IEEE 802.3ad port trunk with LACPIEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1p Class of Service IEEE 802.1QVLAN tagging IEEE 802.1xPort Authentication Network Control IEEE 802.1ab LLDPIEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethemet Plus RFC 768 UD PRFC 793 TFTP RFC 791 IPRFC 792 ICMP RFC 2068 HTTP

Functionality	Description
Standards Compliance	RFC 1112 IGMP v1 RFC 2236 IGMP v2 RFC 3376 IGMP v3 RFC 2710 MLD v1 FRC 3810 MLD v2 RFC 2328 OSPF v2"

Software requirements

The FS S3400C Series Switches run on FS OS Software version.

Table 6 lists the latest software requirements for the switch models.

Table 6. Latest software requirements

FS P/N	Description	Latest software requirements
S3400C-24MG4S	S3400C-24MG4S, 24-Port Ethernet L2+ Switch, 24 x 100M/1000M/2.5GBase-T/Multi-Gigabit, with 4 x 10Gb SFP+ Uplinks	-
S3400C-24MG4S-P	S3400C-24MG4S-P, 24-Port Ethernet L2+ PoE+ Switch, 24 x 2.5GBASE-T/Multi-Gigabit, with 4 x 10Gb SFP+ Uplinks	-

Product specifications

Table 7 shows the product specifications for the FS S3400C series switches.

Table 7. Product specifications

Description	S3400C-24MG4S	S3400C-24MG4S-P
Environmental		
Operating temperature	-10 to 50°C (14 to 122°F)	-10 to 50°C (14 to 122°F)
Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Operating humidity	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)
Storage humidity	5% to 95% (Non-condensing)	5% to 95% (Non-condensing)
Acoustic noise		
Physical specifications		
Dimensions (HxWxD)	1.73"x8.46"x14.02" (44x215x356mm)	1.73"x8.46"x14.02" (44x215x356mm)
Rack units (RU)	1 RU	1 RU
Weight	5.95 lbs (2.7kg)	6.61 lbs (3kg)

Description	S3400C-24MG4S	S3400C-24MG4S-P
Electrical		
Voltage (auto ranging)	100-240V	100-240V
Frequency	50-60Hz	50-60Hz
Current	2.5A Max	8A Max
Power rating (maximum consumption)	46.9W	458.14W
Mean-time between failures		
MTBF (hours)	≥70000h	≥70000h
Connectors		
Power connectors	• Customers can provide power to a switch by using the internal power at the back of the switch • Internal power supply connector: The internal power supply is an auto-ranging unit. It supports input voltages between 100 (115 for 1100WAC) and 240 VAC. Use the supplied AC power cord to connect the AC power connector to an AC power outlet	
Standards		
Standards	802.1s, 802.1w, 802.1x, 802.1ad, 802.1d, 802.1p, 802.1q, RMON, SNMPV1 V2 V3	

Quality certification

At FS, our Quality Commitment lies in all aspects of processes, resources, and methods that enable us to build superior networks for our customers. Through a quality policy focusing on continuous improvement of products and services, we're able to achieve the highest levels of satisfaction for our customers. To that end, every FS employee is accountable for contributing to the value of the products and services we deliver.

Warranty, service and support

FS S3400C Series Switches enjoy 5 years limited warranty against defects in materials or workmanship. For more information for FS Returns & Refunds policy, visit https://www.fs.com/policies/warranty.html or https://www.fs.com/policies/day_return_policy.html

FS provides a personal account manager, free professional technical support, and 24/5 live customer service to each customer.

- Professional Lab: Test each product with the latest and advanced networking equipment.
- Free Technical Support: Provide free & tailored solutions and services for your businesses.
- 80% Same-day Shipping: Immediate shipping for in-stock items.
- Fast Response: Direct and immediate assistance from an expert.

For more information, visit https://www.fs.com/service/fs_support.html

Ordering information

Table 8 provides the ordering information for S3400C series switches.

Table 8. Ordering information

FS P/N	Product description
Switch hardware	
S3400C-24MG4S	S3400C-24MG4S, 24-Port Ethernet L2+ Switch, 24 x 100M/1000M/2.5GBase-T/Multi-Gigabit, with 4 x 10Gb SFP+ Uplinks
S3400C-24MG4S-P	S3400C-24MG4S-P, 24-Port Ethernet L2+ PoE+ Switch, 24 x 2.5GBASE-T/Multi-Gigabit, with 4 x 10Gb SFP+ Uplinks

Additional information

For more information about the S5860 Series Switches, contact your account manager or visit https://www.fs.com/search_result?keyword=S3400C

Document history

New or revised topic	Described in	Date
Updates to FS S3400C Series Switches Data Sheet	Updated all	10/15/2024