

FS S5800 Series Switches Data Sheet

Copyright © 2023 FS.COM All Rights Reserved

Contents

Product overview 3

Product highlights 4

Platform details 5

Platform benefits 18

Software requirements 18

Product specifications 18

Quality certification 25

Optics supported 25

Warranty, service and support 25

Ordering information 26

Additional information 26

Document history 26

Copyright © 2023 FS.COM All Rights Reserved

Product overview

S5800 series routing switches are high performance 1G/10G switch designed to meet the requirements of next generation enterprise, data center, Metro and HCI (Hyper-Converged Infrastructure) networks. Based on FSOS, the S5800 series delivers performance and robust feature support, such as Priority Flow Control (PFC), Explicit Congestion Notification (ECN) and data center TCP, etc. It also support MLAG function which improves the reliability of the network links from single board grade to device grade.

S5800-48T4S is a high-performance Layer 3 Ethernet switch with 48x 10/100/1000BASE-T RJ45 access ports and 4x 10Gb uplink ports in a compact 1U form factor, the powerful switch delivers non-blocking forwarding of 176Gbps combined with feature rich L2 and L3 switching. Built from the ground up with the combination of advanced hardware and software, the switch provides a powerful Layer 3 routing solution for next generation enterprise, data center, Metro and HCI (Hyper Converged Infrastructure) networks

S5800-48F4SR is a high-performance Layer 3 Ethernet switch with 48x 1000M SFP and 4x 10Gb SFP+ ports in a compact 1U form factor. The FSOS delivers robust feature support, such as the leading edge data center features: Priority Flow Control (PFC), Explicit Congestion Notification (ECN) and data center TCP, etc. It also supports MLAG function which improves the reliability of the network links from single board grade to device grade.

The S5800-48MBQ 48-Port Multi-Gigabit Ethernet layer 3 switch features 48x 100M/1000M/2.5GBASE-T, 4x 10G/25G SFP28 and 2x 40G QSFP+ ports. This managed enterprise switch delivers 600 Gbps switching capacity and 445.76 Mpps forwarding rate for superior processing performance and network reliability. Supporting advanced features, including MLAG, IPv4/IPv6, SNMP etc., FS agile S5800-48MBQ managed switch is ideal for next generation enterprise, Wi-Fi 6 Access, Metro and HCI (Hyper Converged Infrastructure) networks.

S5800-8TF12S is a high-performance Layer 3 Ethernet switch with 8x 100M/1000M SFP, 8x 10/100/1000BASE-T combo and 12x 1Gb SFP/10Gb SFP+ in a compact 1U form factor. It comes with complete system software, comprehensive protocols and applications to facilitate the rapid service deployment and management for traditional L2/L3/IPv6 networks. Supporting advanced features, including MLAG, SFLOW, SNMP etc., this switch meets the next generation Metro and enterprise network requirements, and it is also ideal for traditional or fully virtualized data center.

S5800-48T4S-DC is a Layer 3 Ethernet switch with 48x 10/100/1000BASE-T RJ45 ports and 4x 10Gb ports.It offers dual hot-swappable DC power supplies and redundant variable-speed fans as standard features. The powerful switch delivers non-blocking forwarding of 176Gbps combined with feature rich L2 and L3 switching. Built from the ground up with the combination of advanced hardware and software, the switch provides a powerful Layer 3 routing solution for next generation enterprise, data center, Metro and HCI (Hyper Converged Infrastructure) networks.

S5800-48F4SR-DC is a Layer 3 Ethernet switch with 48x 1000M SFP and 4x 10Gb SFP+. It offers dual hot-swappable DC power supplies and redundant variable-speed fans as standard features. Built from the ground up with the combination of advanced hardware and software, the switch provides a powerful Layer 3 routing solution for next generation enterprise, data center, Metro and HCI (Hyper Converged Infrastructure) networks.

S5800-24T8S is a high-performance Layer 3 Ethernet switch with 24x 10/100/1000BASE-T RJ45 access ports and 8x 10Gb uplink ports in a compact 1U form factor, the powerful switch delivers non-blocking forwarding of 208Gbps combined with feature-rich L2 and L3 switching. Built from the ground up with the combination of advanced hardware and software, the switch provides a powerful Layer 3 routing solution for next-generation enterprise, data center, Metro, and HCI (Hyper-Converged Infrastructure) networks.

Copyright © 2023 FS.COM All Rights Reserved

Product highlights

- Support MLAG (Multi-Chassis Link Aggregation) for Uninterrupted Services
- 1+1 Redundant Power Supplies
- Support QoS, LACP, ACL, VLANs, DHCP, ERPS, etc.
- Support NVGRE for Knowledge Sharing and Community-based Problem Solving
- Support ECMP, VRRP, VARP, STP, RSTP, MSTP, ERPS
- Support CLI/WEB/SNMP/SSH for Flexible Operation
- Network Monitoring through Sampled Flow (sFlow)
- Support SSH, ACL, AAA, 802.1X, RADIUS, TACACS+, etc. for Security
- Support IEEE 1588v2 Precision Time Protocol TC Mode (Only for S5800-48T4S-PE / S5800-48T4S-DC / S5800-48F4SR-DC / S5800-48T4S / S5800-48F4SR)

Copyright © 2023 FS.COM All Rights Reserved

Platform details

Switch models and configurations

Figures 1 through 7 show the FS S5800 series switches.

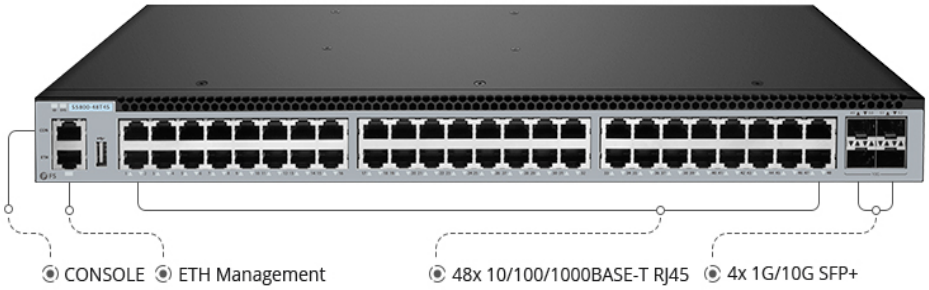


Figure 1.
S5800-48T4S, 48-Port Gigabit Ethernet L3 Switch, 48 x Gigabit RJ45, with 4 x 10Gb SFP+, Support MLAG

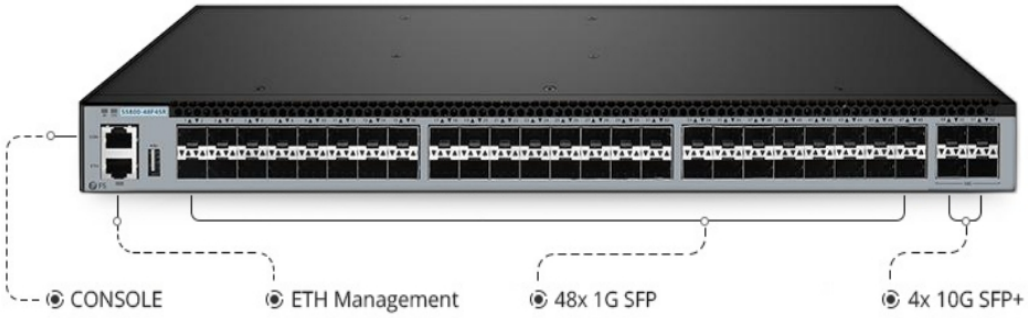


Figure 2.
S5800-48F4SR, 48-Port Gigabit Ethernet L3 Switch, 48 x 1Gb SFP, with 4 x 10Gb SFP+, Support MLAG

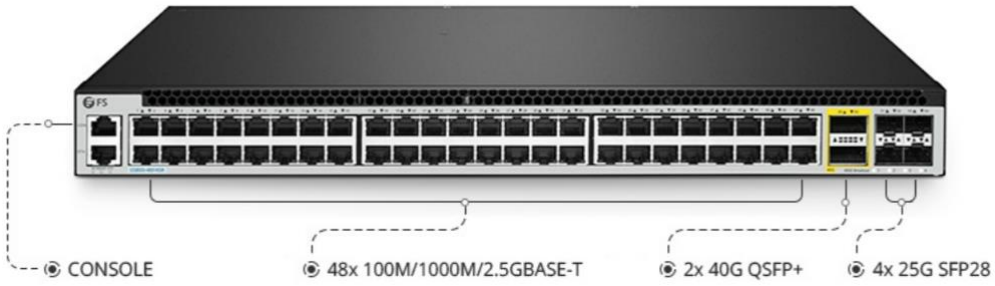


Figure 3.
S5800-48MBQ, 48-Port Ethernet L3 Switch, 48 x 100M/1000M/2.5GBASE-T/Multi-Gigabit, with 4 x 25Gb SFP28 and 2 x 40Gb QSFP+, Support MLAG

Copyright © 2023 FS.COM All Rights Reserved

Platform details

Switch models and configurations

Figures 1 through 7 show the FS S5800 series switches.

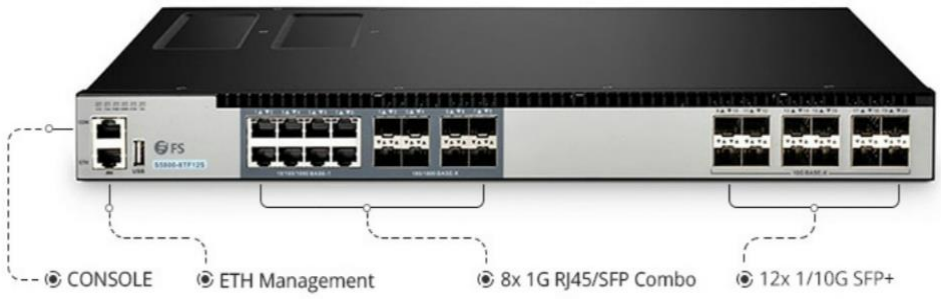


Figure 4.
S5800-8TF12S, 12-Port Ethernet L3 Switch,12 x 10Gb SFP+, with 8 x Gigabit Combo, Support MLAG

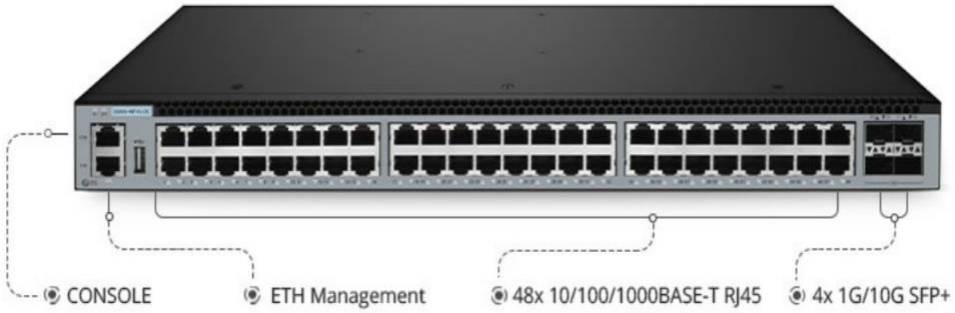


Figure 5.
S5800-48T4S-DC, 48-Port Gigabit Ethernet L3 Switch, 48 x Gigabit RJ45, with 4 x 10Gb SFP+, Support MLAG, Dual DC PSUs

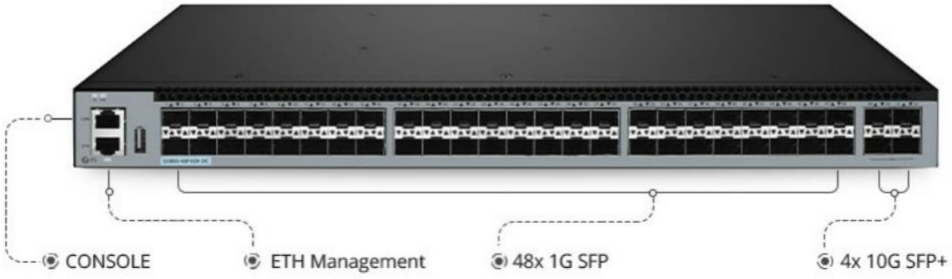


Figure 6.
S5800-48F4SR-DC, 48-Port Gigabit Ethernet L3 Switch, 48 x 1Gb SFP, with 4 x 10Gb SFP+, Support MLAG Dual DC PSUs

Copyright © 2023 FS.COM All Rights Reserved

Platform details

Switch models and configurations

Figures 1 through 7 show the FS S5800 series switches.

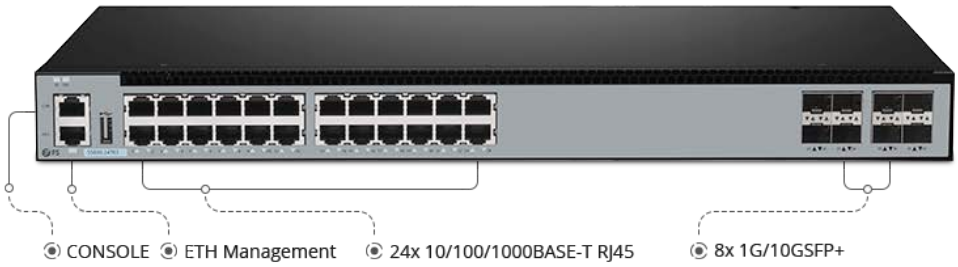


Figure 7.
S5800-24T8S, 24-Port Gigabit Ethernet L3 Switch, 24 x Gigabit RJ45, with 8 x 10Gb SFP+, Support MPLS&MLAG

Copyright © 2023 FS.COM All Rights Reserved

Switch configurations and port density

Table 1 through 3 show the FS S5800 series configurations and port density.

Table 1. Switch configuration and port density with S5800-48T4S, S5800-48F4SR, S5800-48MBQ

FS P/N	S5800-48T4S	S5800-48F4SR	S5800-48MBQ
Description	48-Port Gigabit Ethernet L3 Switch, 48 x Gigabit RJ45, with 4 x 10Gb SFP+	48-Port Gigabit Ethernet L3 Switch, 48 x 1Gb SFP, with 4 x 10Gb SFP+	48-Port Ethernet L3 Switch, 48 x 100M/1000M/2.5GBASE-T/Multi-Gigabit, with 4 x 25Gb SFP28 and 2 x 40Gb QSFP+
Port			
10M/100M/1000M BASE-T RJ45	48	-	48
1G port density	52	48	48
10G port density	4	4	-
25G port density	-	-	4
40G port density	-	-	2
Management ports	1	1	1
Console port	1	1	1
Memory and processor			
CPU	SOC (Dual core/ARM A53)	SOC (Dual core/ARM A53)	ARM A53 CPU
OS	FSOS	FSOS	FSOS
RAM	2GB	2GB	2GB
DDRIII Capacity	2GB	2GB	2GB
Flash memory	8GB (eMMC)	8GB (eMMC)	8GB EMMC (OS) 4MB SPI Flash (Boot)
Max./Min. Latency	0.96μs/0.66μs	0.96μs/0.66μs	0.96μs/0.66μs
Packet Buffer	9MB	9MB	9MB

Copyright © 2023 FS.COM All Rights Reserved

Table 2. Switch configuration and port density with S5800-8TF12S, S5800-48T4S-DC, S5800-48F4SR-DC

FS P/N	S5800-8TF12S	S5800-48T4S-DC	S5800-48F4SR-DC
Description	12-Port Ethernet L3 Switch,12 x 10Gb SFP+, with 8 x Gigabit Combo	48-Port Gigabit Ethernet L3 Switch, 48 x Gigabit RJ45, with 4 x 10Gb SFP+	48-Port Gigabit Ethernet L3 Switch, 48 x 1Gb SFP, with 4 x 10Gb SFP+
Port			
10/100/1000M BASE-T RJ45	8	48	-
1G port density	20	52	48
10G port density	12	4	4
Management ports	1	1	1
Console port	1	1	1
Memory and processor			
CPU	Freescale PowerPC P1010 533MHz	SOC (Dual core/ARM A53)	SOC (Dual core/ARM A53)
OS	FSOS	FSOS	FSOS
RAM	1GB	2GB	2GB
DDRIII Capacity	1GB	2GB	2GB
Flash memory	2GB (eMMC)	8GB (eMMC)	8GB (eMMC)
Max./Min. Latency	2.37μs/0.88μs	0.96μs/0.66μs	0.96μs/0.66μs
Packet Buffer	3MB	9MB	9MB

Copyright © 2023 FS.COM All Rights Reserved

Table 3. Switch configuration and port density with S5800-24T8S

FS P/N	S5800-24T8S
Description	24-Port Gigabit Ethernet L3 Switch, 24 x Gigabit RJ45, with 8 x 10Gb SFP+
Port	
10/100/1000M BASE-T RJ45	24
1G port density	32
10G port density	8
Management ports	1
Console port	1
Memory and processor	
CPU	SOC (Dual core/ARM A53)
OS	FSOS
RAM	2GB
DDRIII Capacity	2GB
Flash memory	8GB (eMMC)
Max./Min. Latency	0.96μs/0.66μs
Packet Buffer	9MB

Copyright © 2023 FS.COM All Rights Reserved

Power supplies and fans

The FS S5800 Series switches ship with the dual AC or DC power supply as default.

Table 4 through 6 provide more details on the FS S5800 series power supplies and fan specifications.

Table 4. Power supply and fan specifications with S5800-48T4S, S5800-48F4SR, S5800-48MBQ

Description	S5800-48T4S	S5800-48F4SR	S5800-48MBQ
Power supply	1+1 redundant power supplies	1+1 redundant power supplies	1+1 redundant power supplies
Fan number	2+1 redundancy fans	2+1 redundancy fans	3+1 redundancy fans
Airflow	Front-to-Back; Back-to-Front (S5800-48T4S-PE)	Front-to-Back	Front-to-Back
Acoustic noise	51.8dB	51.4dB	38dB
Maximum fan speed	10000rpm	10000rpm	9000rpm
Max. power consumption	55W	70W	92W
Power max rating	55W	70W	86.4W
Input-voltage range and frequency	• Rated voltage range: 100-240VAC; 50-60Hz		
Power supply efficiency	84% (50% load)	84% (50% load)	92% (230Vac 50% load)
Input current	2A	2A	5.5A
Output ratings	12V	12V	12V
Output holdup time	12ms	12ms	11ms
Power-supply input receptacles	C13	C13	C13
Power cord rating	10A	10A	10A

Copyright © 2023 FS.COM All Rights Reserved

Table 5. Power supply and fan specifications with S5800-8TF12S, S5800-48T4S-DC, S5800-48F4SR-DC

Description	S5800-8TF12S	S5800-48T4S-DC	S5800-48F4SR-DC
Power supply	1+1 hot-swappable power supplies	1+1 redundant power supplies	1+1 redundant power supplies
Fan number	3+1 redundant fans	2+1 redundant fans	2+1 redundant fans
Airflow	Front-to-Back	Front-to-Back	Front-to-Back
Acoustic noise	77dB	51.6dB	51.5dB
Maximum fan speed	9000rpm	10000rpm	10000rpm
Power max rating	47W	55W	70W
Input–voltage range and frequency	100-240VAC, 50-60Hz	-48V to -60VDC	-48V to -60VDC
Power supply efficiency	89% (50% load)	84% (50% load)	84% (50% load)
Input current	3A (90-136VAC) 1.5A (180-264VAC)	2A	2A
Output ratings	12V	12V	12V
Output holdup time	20ms	3ms	3ms
Power–supply input receptacles	C13	C13	C13
Power cord rating	10A	-	-

Copyright © 2023 FS.COM All Rights Reserved

Table 6. Power supply and fan specifications with S5800-24T8S

Description	S5800-24T8S
Power supply	1+1 redundant power supplies
Fan number	2 fixed fans
Airflow	Front-to-Back
Acoustic noise	51.8dB
Maximum fan speed	10000rpm
Power max rating	55W
Input-voltage range and frequency	100-240VAC, 50-60Hz
Power supply efficiency	84% (50% load)
Input current	2A
Output ratings	12V
Output holdup time	12ms
Power-supply input receptacles	C13
Power cord rating	10A

Copyright © 2023 FS.COM All Rights Reserved

Table 7. Power cord information of S5800 Series Switches

Countries	Power Cord Standard	Male Plug	Female Connector	Voltage Compatibility	Maximum Input Amps
United States, Canada, Mexico, Puerto Rico, Guam, Japan, Virgin Islands (U.S.)	US	NEMA 5-15P	IEC60320 C13	100-250VAC	10A
United Kingdom, Hong Kong, Singapore, Malaysia, Maldives, Qatar, India	UK	BS1363	IEC60320 C13	100-250VAC	13A
Continental Europe, South Africa, Switzerland, Italy, Indonesia	EU	CEE 7	IEC60320 C13	100-250VAC	16A
China, Australia, New Zealand, Argentina	CN	GB16A	IEC60320 C13	100-250VAC	10A

Note:

Power cords are matched according to the delivery destination.

Copyright © 2022 FS.COM All Rights Reserved。

Switch performance

Table 8 through 10 show performance specifications for the FS S5800 series switches.

Table 8. Performance specifications with S5800-48T4S, S5800-48F4SR, S5800-48MBQ

Performance for all S5800 Series Switches	S5800-48T4S	S5800-48F4SR	S5800-48MBQ
Switching capacity	176 Gbps	176 Gbps	600 Gbps
Forwarding rate	132 Mpps	132 Mpps	445.76 Mpps
Total number of MAC addresses	114K	48K	98K
Total number of IPv4 routes (indirect routes)	56K	57344	57344
Total number of IPv4 host routes (direct routes and ARP)	12288 (default)	12288 (default)	12288 (default)
Total number of IPv6 routes (indirect routes)	4K	4096	4096
Total number of IPv6 host routes (direct routes and NDP)	2048 (default)	2048 (default)	2048 (default)
Total number of IPv4 multicast routes	/	2048	1024
Total number of IPv6 multicast routes	256	512	512
QoS ACL scale	1532	1532	1532
Security ACL scale	IPv4: 1488 (ingress), 464 (egress) IPv6: 744 (ingress), 232 (egress)	IPv4: 1488 (ingress), 464 (egress) IPv6: 744 (ingress), 232 (egress)	IPv4: 1488 (ingress), 464 (egress) IPv6: 744 (ingress), 232 (egress)
VLAN IDs	4K	4K	4K
STP virtual ports (port* VLANs) for MST	64	64	64
Total switched virtual interfaces (SVIs)	256	256	256
Jumbo frame	9600 bytes	9600 bytes	9600 bytes

Copyright © 2023 FS.COM All Rights Reserved

Table 9. Performance specifications with S5800-8TF12S, S5800-48T4S-DC, S5800-48F4SR-DC

Performance for all S5800 Series Switches	S5800-8TF12S	S5800-48T4S-DC	S5800-48F4SR-DC
Switching capacity	240 Gbps	176 Gbps	176 Gbps
Forwarding rate	178.6 Mpps	132 Mpps	132 Mpps
Total number of MAC addresses	65K	96K	96K
Total number of IPv4 host routes (direct routes and ARP)	3072 (default)	12288 (default)	12288 (default)
Total number of IPv6 routes (indirect routes)	2048 (default)	4096 (default)	4096 (default)
Total number of IPv6 host routes (direct routes and NDP)	1024 (default)	2048 (default)	2048 (default)
Total number of IPv4 multicast routes	511	/	/
Total number of IPv6 multicast routes	127	256	256
QoS ACL scale	/	1532	1532
Security ACL scale	IPv4: 2048 IPv6:1024 (default)	IPv4: 1488 (ingress), 464 (egress) IPv6: 744 (ingress), 232 (egress)	IPv4: 1488 (ingress), 464 (egress) IPv6: 744 (ingress), 232 (egress)
VLAN IDs	4K	4K	4K
STP virtual ports (port* VLANs) for MST	64	64	64
Total switched virtual interfaces (SVIs)	256	256	256
Jumbo frame	9600 bytes	9600 bytes	9600 bytes

Copyright © 2023 FS.COM All Rights Reserved

Table 10. Performance specifications with S5800-24T8S

Performance for all S5800 Series Switches	S5800-24T8S
Switching capacity	208 Gbps
Forwarding rate	155 Mpps
Total number of MAC addresses	98304
Total number of IPv4 host routes (direct routes and ARP)	12288 (default)
Total number of IPv6 routes (indirect routes)	4k
Total number of IPv6 host routes (direct routes and NDP)	2048 (default)
Total number of IPv4 multicast routes	2048 (default)
Total number of IPv6 multicast routes	256
QoS ACL scale	1532
Security ACL scale	IPv4: 2926 (ingress), 878 (egress) IPv6: 2926 (ingress), 878 (egress)
VLAN IDs	4094
STP virtual ports (port* VLANs) for MST	64
Total switched virtual interfaces (SVIs)	256
Jumbo frame	9600 bytes

Copyright © 2023 FS.COM All Rights Reserved

Platform benefits

Table 11 lists the software spotlights for the FS S5800 series switches.

Table 11. Software spotlights

Functionality	Description
Multi-Chassis Link Aggregation (MLAG)	All 1G/10G ports support MLAG Connects to other switches and servers by LAG or LACP without other proprietary protocols The software supports up to 63 MLAG members Support mixed configuration MLAG with S3950, S5800, S5850 and S8050 series switches
Data Center Features	Support PFC, ECN, Data Center TCP Support VXLAN, NVGRE, GENEVE Support DCBX, GRE Tunnel
Metro Advanced License	Support advanced features of MPLS, LDP, MPLS-L2VPN, MPLS-L3VPN, VxLAN-BGP-EVPN, IPFIX LIC-FIX-MA license is required to enable the advanced features
High Reliability	Support 64-way ECMP routing for load balancing and redundancy Support LACP, VRRP, VARP, Smart Link, BFD, ERPS, G.8031, G.8032, Load-Balancing, etc Support the Spanning Tree Protocols (IEEE802.1d STP, IEEE802.1w RSTP, standard 802.1s MSTP) Support STP Protocol Protection (BPDU Guard, Root Guard, Loop Guard, Anti TC-BPDU attack) Support modular power redundancy Support modular fan redundancy
Triple-play Service Support	Offer high bandwidth for Triple-Play services such as IPTV, video monitoring The built-in QoS capabilities and flexible queuing technologies guarantee high quality of services Support rich multicast protocol set (IGMP Snooping, IGMP v1/v2/v3, PIM-SM) Support up to 2K multicast groups and 4K logical replications per group Support IPTV service and multicast latency control
Sound Security Protection Policies	Support IPv4/IPv6 ACL and MAC whitelisting Support ARP inspection Support IP source guard Support IEEE802.1X RADIUS authentication, TACAS+ Support DHCP Server Relay/Snooping Support Control Plane Protect (CoPP) black & white list and rate limit features
QoS	Support 13 hardware queues per-port (8 unicast queues, 4 multicast queues and 1 monitor queue) Support Weighted Random Early Detection (WRED) Support Tail Drop (TD) Support Strict Priority (SP) scheduling Support Weighted Deficit Round Robin (WDRR) scheduling Support SP + WDRR mixed scheduling Support traffic classification based on COS/DSCP (simple classification)
VLAN	Support 4K Active VLAN Support IEEE 802.1Q VLAN Support Voice VLAN Support GVRP (similar to VTP)
Easy Network Maintenance	Support CLI-based, using console ports Support WEB UI, Telnet, SSH, using 10/100/1000Mbps management port or service ports Support SNMP (Managed by Zabbix) v1, v2, and v3 Support RPC-API for Software Defined Network (SDN)

Copyright © 2023 FS.COM All Rights Reserved

Software requirements

The FS S5800 Series Switches run on FS OS Software version.

Table 12 lists the latest software requirements for the switch models.

Table 12. Latest software requirements

FS P/N	Description	Latest software requirements
S5800-48T4S	S5800-48T4S, 48-Port Gigabit Ethernet L3 Switch, 48 x Gigabit RJ45, with 4 x 10Gb SFP+, Support MLAG	FSOS_V7.4.3.R5 Software
S5800-48F4SR	S5800-48F4SR, 48-Port Gigabit Ethernet L3 Switch, 48 x 1Gb SFP, with 4 x 10Gb SFP+, Support MLAG	FSOS_V7.4.3.R5 Software
S5800-48MBQ	S5800-48MBQ, 48-Port Ethernet L3 Switch, 48 x 100M/1000M/2.5GBASE-T/Multi-Gigabit, with 4 x 25Gb SFP28 and 2 x 40Gb QSFP+, Support MLAG	FSOS V7.0.4.34 Software
S5800-8TF12S	S5800-8TF12S, 12-Port Ethernet L3 Switch,12 x 10Gb SFP+, with 8 x Gigabit Combo, Support MLAG	FSOS V5.3.12.R Software
S5800-48T4S-DC	S5800-48T4S-DC, 48-Port Gigabit Ethernet L3 Switch, 48 x Gigabit RJ45, with 4 x 10Gb SFP+, Support MLAG, Dual DC PSUs	FSOS_V7.4.3.R5 Software
S5800-48F4SR-DC	S5800-48F4SR-DC, 48-Port Gigabit Ethernet L3 Switch, 48 x 1Gb SFP, with 4 x 10Gb SFP+, Support MLAG, Dual DC PSUs	FSOS_V7.4.3.R5 Software
S5800-24T8S	S5800-24T8S, 24-Port Gigabit Ethernet L3 Switch, 24 x Gigabit RJ45, with 8 x 10Gb SFP+, Support MPLS&MLAG	FSOS_V7.4.3.R5 Software

Licensing

Metro Advanced License includes the functions of MPLS, LDP, MPLS-L2VPN, MPLS-L3VPN, VxLAN-BGP-EVPN, IPFIX. The license is specific to the switch for which it is issued and is not valid on any other switch, so the license is not portable across devices.

Metro Advanced License is offered as perpetual license, it is applicable to multiple devices, including S5800-48T4S, S5800-48F4SR, S5850-24T16S, S5850-24T16B, S5850-24XMG, S5850-32S2Q, S5850-48S6Q, S5850-48S2Q4C, S5850-48T4Q, S8050-20Q4C, S5800-48T4S-DC, S5800-48F4SR-DC, S5800-24T8S.

For more information, visit: https://www.fs.com/products/100590.html

Product specifications

Table 13 through 15 show the product specifications for the FS S5800 series switches.

Table 13. Product specifications with S5800-48T4S, S5800-48F4SR, S5800-48MBQ

Description	S5800-48T4S	S5800-48F4SR	S5800-48MBQ
Environmental			
Operating temperature	0 to 50°C (32 to 122°F)	0 to 45°C (32 to 113°F)	0 to 45°C (32 to 113°F)

Copyright © 2023 FS.COM All Rights Reserved

Description	S5800-48T4S	S5800-48F4SR	S5800-48MBQ
Storage temperature	-40 to 70ºC (-40 to 158°F)	-40 to 70ºC (-40 to 158°F)	-40 to 70ºC (-40 to 158°F)
Operating humidity	0% to 90% (Non-condensing)	0% to 90% (Non-condensing)	10% to 90% (Non-condensing)
Storage humidity	0% to 90% (Non-condensing)	0% to 90% (Non-condensing)	0% to 95% (Non-condensing)
Temperature alarm	Supported	Supported	Supported
Acoustic noise	51.8dB	51.4dB	38dB
Physical specifications			
Dimensions (HxWxD)	1.73''x17.5''x14.6'' (43.6x440x370mm)	1.73''x17.5''x14.6'' (43.6x440x370mm)	1.72''x14.92''x17.40'' (43.6x379x442mm)
Rack units (RU)	1U	1U	1U
Weight	13.44 lbs (6.1kg)	13.77 lbs (6.25kg)	lbs (6.96kg)
Distance	100M	100M	100M
Electrical			
Voltage (auto ranging)	100-240VAC	100-240VAC	100-240VAC
Frequency	50-60Hz	50-60Hz	50-60Hz
Current	2A Max	2A Max	5.5A
Power rating (maximum consumption)	55W	70W	350W
Mean-time between failures			
MTBF (hours)	204,935	189,901	99,936.04
Connectors			
Connectors and cabling	• SFP transceivers: LC fiber connectors (single-mode or multimode fiber) • SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber) • Ethernet management port: RJ-45 connectors • Management console port: RJ-45-to-DB9 cable for PC connections		
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		

Copyright © 2023 FS.COM All Rights Reserved

Description	S5800-48T4S	S5800-48F4SR	S5800-48MBQ
Standards			
Standards	802.1x, AAA, RMON, SNMPV1 V2 V3, HTTP Telnet, SSH		

Table 14. Product specifications with S5800-8TF12S, S5800-48T4S-DC, S5800-48F4SR-DC

Description	S5800-8TF12S	S5800-48T4S-DC	S5800-48F4SR-DC
Environmental			
Operating temperature	0 to 45°C (32 to 113°F)	0 to 45°C (32 to 113°F)	0 to 45°C (32 to 113°F)
Storage temperature	-40 to 70°C (-40 to 158°F)	-40 to 70°C (-40 to 158°F)	-40 to 70°C (-40 to 158°F)
Operating humidity	10% to 90% (Non-condensing)	5% to 95% (Non-condensing)	5% to 95% (Non-condensing)
Storage humidity	10% to 90% (Non-condensing)	5% to 95% (Non-condensing)	5% to 95% (Non-condensing)
Temperature alarm	Supported	Supported	Supported
Acoustic noise	77dB	51.6dB	51.5dB
Physical specifications			
Dimensions (HxWxD)	1.72”x17.32x13.39" (43.6x440x340mm)	1.73"x17.5"x14.6" (43.6x440x370mm)	1.73"x17.5"x14.6" (43.6x440x370mm)
Rack units (RU)	1U	1U	1U
Weight	10.58 lbs (4.8kg)	13.44 lbs (6.1kg)	13.77 lbs(6.25kg)
Distance	100M	100M	/
Electrical			
Voltage (auto ranging)	100-240VAC	-48V to -60VDC	-48V to -60VDC
Frequency	50-60Hz	/	/
Power rating (maximum consumption)	47W	55W	70W

Copyright © 2023 FS.COM All Rights Reserved

Description	S5800-8TF12S	S5800-48T4S-DC	S5800-48F4SR-DC
Mean-time between failures			
MTBF (hours)	131,271	204,935	189,901
Connectors			
Connectors and cabling	• SFP transceivers: LC fiber connectors (single-mode or multimode fiber) • SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber) • FS StackWise stacking ports: copper-based FS StackWise cabling • Ethernet management port: RJ-45 connectors • Management console port: RJ-45-to-DB9 cable for PC connections		
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	802.1x, AAA, RMON, SNMPV1 V2 V3, HTTP Telnet, SSH		

Copyright © 2023 FS.COM All Rights Reserved

Table 15. Performance specifications with S5800-24T8S

Description	S5800-24T8S
Environmental	
Operating temperature	0 to 45°C (32 to 113°F)
Storage temperature	-40 to 70°C (-40 to 158°F)
Operating humidity	0 to 90% (Non-condensing)
Storage humidity	0 to 90% (Non-condensing)
Temperature alarm	Supported
Acoustic noise	51.8dB
Physical specifications	
Dimensions (HxWxD)	1.7"x17.4"x9.7"(44x442x245mm)
Rack units (RU)	1 RU
Weight	7.93lbs (3.6kg)
Distance	100M
Electrical	
Voltage (auto ranging)	100-240VAC
Frequency	50-60Hz
Power rating (maximum consumption)	55W

Power supply

Copyright © 2023 FS.COM All Rights Reserved

Description	S5800-24T8S
Mean-time between failures	
MTBF (hours)	215,299
Connectors	
Connectors and cabling	• SFP transceivers: LC fiber connectors (single-mode or multimode fiber) • SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber) • Ethernet management port: RJ-45 connectors • Management console port: RJ-45-to-DB9 cable for PC connections
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	802.1x, AAA, RMON, SNMPV1 V2 V3, HTTP Telnet, SSH

Copyright © 2023 FS.COM All Rights Reserved

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.

Figures 8 shows some of the authoritative certifications obtained by FS S5800 Series Switches.



Figure 8.

Optics supported

For details about the optical modules available, visit

S5800-48T4S: Transceivers DACs and AOCs Supported on S5800-48T4S Switch

S5800-48F4SR: Transceivers DACs and AOCs Supported on S5800-48F4SR Switch

S5800-48MBQ: Transceivers DACs and AOCs Supported on S5800-48MBQ Switch

S5800-8TF12S: Transceivers DACs and AOCs Supported on S5800-8TF12S Switch

Warranty, service and support

FS S5800 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 24/7 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

Copyright © 2023 FS.COM All Rights Reserved

Ordering information

Table 15 provides the ordering information for S5800 series switches.

Table 15. Ordering information

FS P/N	Product description
Switch hardware	
S5800-48T4S	S5800-48T4S, 48-Port Gigabit Ethernet L3 Switch, 48 x Gigabit RJ45, with 4 x 10Gb SFP+, Support MLAG
S5800-48F4SR	S5800-48F4SR, 48-Port Gigabit Ethernet L3 Switch, 48 x 1Gb SFP, with 4 x 10Gb SFP+, Support MLAG
S5800-48MBQ	S5800-48MBQ, 48-Port Ethernet L3 Switch, 48 x 100M/1000M/2.5GBASE-T/Multi-Gigabit, with 4 x 25Gb SFP28 and 2 x 40Gb QSFP+, Support MLAG
S5800-8TF12S	S5800-8TF12S, 12-Port Ethernet L3 Switch,12 x 10Gb SFP+, with 8 x Gigabit Combo, Support MLAG
S5800-48T4S-DC	S5800-48T4S-DC, 48-Port Gigabit Ethernet L3 Switch, 48 x Gigabit RJ45, with 4 x 10Gb SFP+, Support MLAG, Dual DC PSUs
S5800-48F4SR-DC	S5800-48F4SR-DC, 48-Port Gigabit Ethernet L3 Switch, 48 x 1Gb SFP, with 4 x 10Gb SFP+, Support MLAG, Dual DC PSUs
S5800-24T8S	Hot-swappable AC Power Module 150W, for S5850-32S2Q, S5800-8TF12S, S5850-24T16B, T5850-32S2Q and T5800-8TF12S
Software licenses	
LIC-FIX-MA	Metro Advanced License for S5800, S5850, S8050 Series Switches, Includes MPLS, VXLAN-BGP-EVPN, Permanent
Power supplies	
GPR150-A1M	Hot-swappable AC Power Module 150W, for S5800-48F4SR, S5800-48T4S, S5850-24S2Q, S5850-24S2C
FSP150-HS12	Hot-swappable DC Power Module 150W, for S5800-48F4SR, S5800-48T4S, S5850-24S2Q
GW-T150WV12	Hot-swappable AC Power Module 150W, for S5850-32S2Q, S5800-8TF12S, S5850-24T16B, T5850-32S2Q and T5800-8TF12S

Additional information

For more information about the S5800 Series Switches, contact your account manager or visit https://www.fs.com/search_result?keyword=S5800

Document history

New or revised topic	Described in	Date
Updates to FS S5800 Series Switches Data Sheet	Updated all	9/20/2023

Copyright © 2023 FS.COM All Rights Reserved

Shenzhen (China)

Address: 24F, Yingfeng Center, Haitian 2nd Rd, Nanshan District, Shenzhen
Tel: +86 (755) 8357 1351
Email: sales@feisu.com

Delaware (United States)

Address: 380 Centerpoint Blvd, New Castle, DE 19720, United States
Tel: +1 (888) 468 7419
Email: us@fs.com

Munich (Germany)

Address: NOVA Gewerbepark Building 7, Am Gfild 7,85375 Neufahrn bei Munich, Germany
Tel: +49 (0) 8165 4099 260
Email: de@fs.com

Singapore

Address: 30A Kallang Pl, #11-10/11/12 Singapore 339213
Tel: +65 6443 7951
Email: sg@fs.com

Wuhan (China)

Address: 9-14F, Optical Valley Software Park A7, Guanshan Ave, Wuhan
Tel: +86 (027) 8808 9195
Email: sales@feisu.com

Birmingham (United Kingdom)

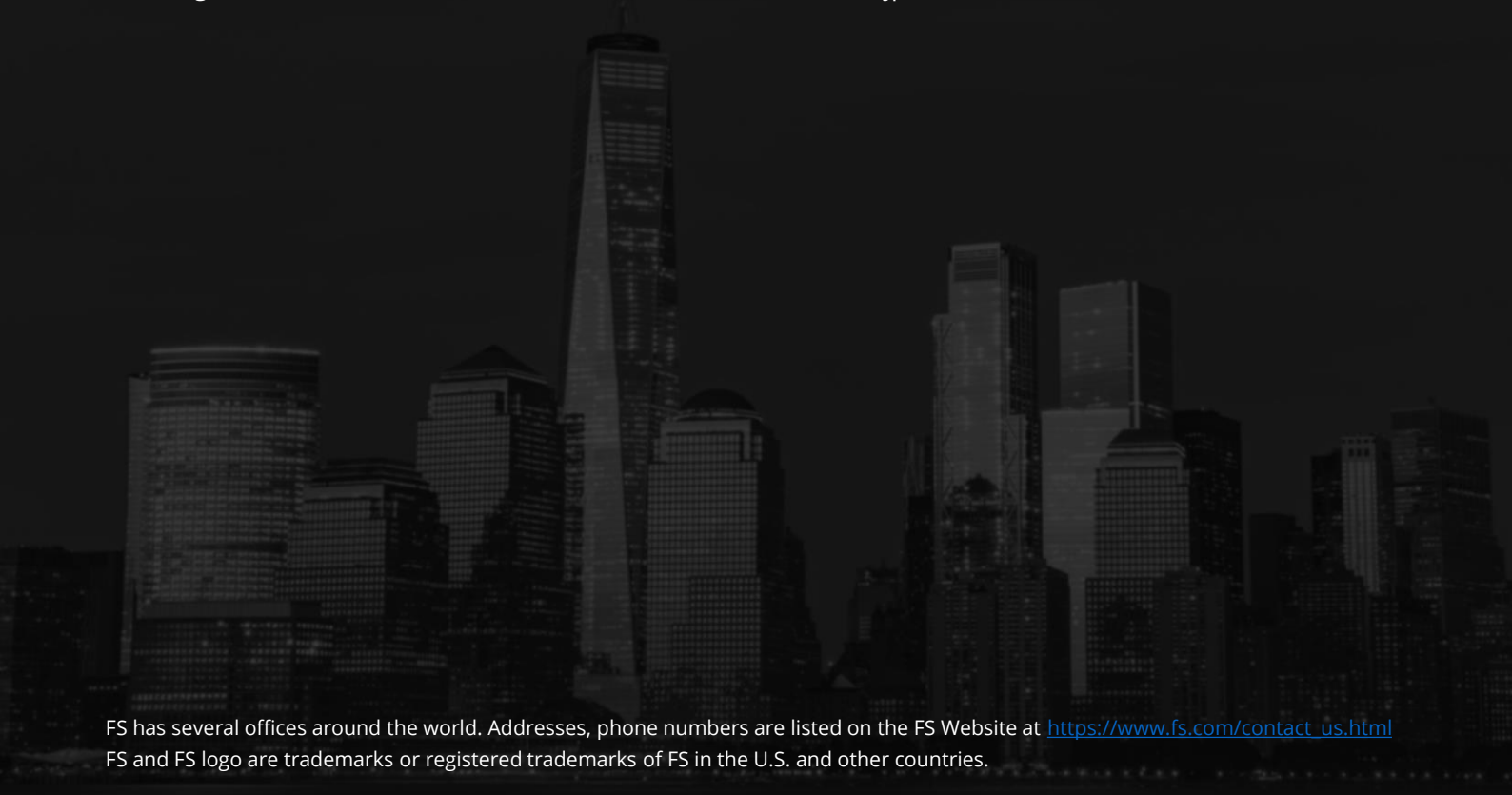
Address: Regus Edmund House, 12-22 Newhall Street, Birmingham, B3 3AS
Tel: +49 (0) 8165 4099 260
Email: uk@fs.com

Melbourne (Australia)

Address: 57-59 Edison Rd, Dandenong South, VIC 3175, Australia
Tel: +61 3 9693 3488
Email: au@fs.com

Tokyo (Japan)

Address: JS Progress Building, 4-1-23 Heiwajima, Ota-ku, Tokyo 〒143-0006
Tel: 03-5826-8305
Email: jp@fs.com



FS has several offices around the world. Addresses, phone numbers are listed on the FS Website at https://www.fs.com/contact_us.html
FS and FS logo are trademarks or registered trademarks of FS in the U.S. and other countries.

Copyright © 2023 FS.COM All Rights Reserved