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FS S3260 Series Switches Data Sheet

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Product overview

Full gigabit Ethernet PoE+ switches are the new-generation intelligent access switches designed for enterprise networks, which can be used as Ethernet Power Sourcing Equipment (PSE). They can automatically identify the connected devices whether compatible with IEEE 802.3af or IEEE 802.3at standard and supply power for them.

S3260-8T2FP is equipped with 8x 10/100/1000BASE-T ports, 2x SFP uplinks, 8x RJ45 ports support both IEEE 802.3af PoE and IEEE 802.3at PoE+ (up to 30W per port) for powering attached IP phones, wireless access points, or other standards-compliant PoE and PoE+ terminal network devices. 2x SFP uplink ports are provided to support connections to higher layer devices.

S3260-16T4FP is equipped with 16x 10/100/1000BASE-T ports, 2x RJ45/SFP combo ports and 2x SFP uplinks, 16x RJ45 ports support both IEEE 802.3af PoE and IEEE 802.3at PoE+ (up to 30W per port) for powering attached IP phones, wireless access points, or other standards-compliant PoE and PoE+ end network devices. 2x SFP uplink ports are provided to support connections to higher layer devices. 2x RJ45/SFP combo ports meet the different network expand needs.

These access switches deliver a compact, cost-effective solution for the carrier's IP MAN and enterprise networks. Based on the high-performance hardware and FSOS platform, it supports functions such as ACL, QinQ, and QoS. Its simple management mode and flexible installation can meet the requirement of any complicated scenario.

Product highlights

- Support WEB/SNMP/SSH for Flexible Operation
- Network Monitoring through Sampled Flow (sFlow)
- Support SSH, ACL, AAA, 802.1X, RADIUS, TACACS+, etc. for Security
- Support ERPS, QoS, L2 Multicast Functions, DHCP Server, RIP, OSPF

Platform details

Switch models and configurations

Figures 1 through 2 show these switches.

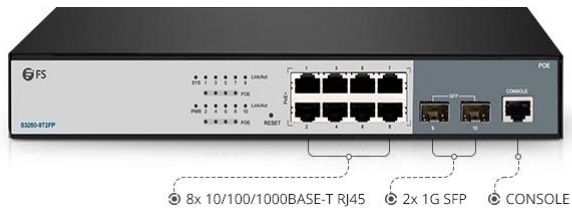


Figure 1.

S3260-8T2FP, 8-Port Gigabit Ethernet L2+ PoE+ Switch, 8 x PoE+ Ports @240W, with 2 x 1Gb SFP Uplinks, Support ERPS

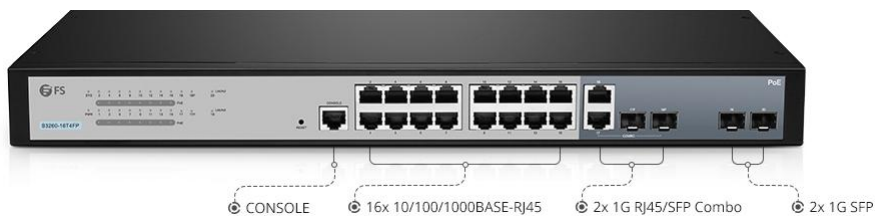


Figure 2.

S3260-16T4FP, 16-Port Gigabit Ethernet L2+ PoE+ Switch, 16 x PoE+ Ports @250W, with 2 x 1Gb SFP Uplinks and 2 x Combo SFP Ports, Support IEEE 802.3af/at

Switch configurations and port density

Table 1 shows these series configurations and port density.

Table 1. Switch configuration and port density

FS P/N	S3260-8T2FP	S3260-16T4FP
Description	8-Port Gigabit Ethernet L2+ PoE+ Switch, 8 x PoE+ Ports @240W, with 2 x 1Gb SFP Uplinks, Support ERPS	16-Port Gigabit Ethernet L2+ PoE+ Switch, 16 x PoE+ Ports @250W, with 2 x 1Gb SFP Uplinks and 2 x Combo SFP Ports, Support IEEE 802.3af/at
Port		
1G port density	10	20
Console port	1	1

Memory and processor

Switch chip	RTL8380M	RTL8382M
CPU	MIPS-4KEc	MIPS-4KEc
RAM	128MB	128MB
Flash memory	16MB (NOR)	16MB (NOR)
Max./Min. Latency	20.02us/18.15us	38.6us/35.31us
Packet buffer	0.5MB	0.5MB

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.

Power supplies and fans

Table 2 provides more details on the FS S3260 series power supplies and fan specifications.

Table 2. Power supply and fan specifications

Description	S3260-8T2FP	S3260-16T4FP
Power supply	1 Built-in	1 Built-in
Fan number	2 Built-in	2 Built-in
Airflow	Left-to-Right	Left-to-Right
Acoustic noise	48dB	45dB
Maximum fan speed	6000RPM $\pm$ 10%	6000RPM $\pm$ 10%
Max. power consumption	260W/13W (PoE is not included)	250W/31W
Power max rating	288W	260W
Input-voltage range and frequency	100-240VAC,50/60Hz	100-240VAC,50/60Hz
Power supply efficiency	$\geq$ 88%	$\geq$ 86%
Input current	4A	5A
Output ratings	48V DC	48V DC
Output holdup time	$\geq$ 10ms Min	$\geq$ 20ms Min
PoE standard	IEEE 802.3af/at	IEEE 802.3af/at
PoE power budget	240W	250W

Switch performance

Table 3 shows performance specifications for the FS S3260 series switches.

Table 3. Performance specifications

Performance for all Switches	S3260-8T2FP	S3260-16T4FP
Switching capacity	20 Gbps	40 Gbps
Forwarding rate	15 Mpps	30 Mpps
Total number of MAC addresses	8K	8K
Total number of IPv4 routes (indirect routes)	128	125
Total number of IPv4 host routes (direct routes and ARP)	384	384
Total number of IPv6 routes (indirect routes)	64	64
Total number of IPv6 host routes (direct routes and NDP)	192	186
Total number of IPv4 multicast routes	509	509
Total number of IPv6 multicast routes	509	509
QoS ACL scale	895	895
Security ACL scale	895	895
VLAN IDs	4000	4000
STP virtual ports (port* VLANs) for MST	10	20
Total switched virtual interfaces (SVIs)	10	10
Jumbo frame	9KB	9KB

Platform benefits

Table 4 lists the software spotlights for these switches.

Table 4. Software spotlights

Functionality	Description
Sound Security Protection Policies	Support to provide equipment-level security and level-based command line protection Support IEEE 802.1x, Radius and TACACS+ perfect security authentication mechanisms Support storm/multicast/unicast limit Support perfect ring detection mechanism Support port isolation, port security, MAC Sticky, DHCP-Snooping, and IP + MAC + Port binding Support SSH V1/2, HTTPS and SSL Support IP Source Guard, DoS Protection , Anti-attack from DDoS, TCP's SYN Flood and UDP Flood Support L2/L3/L4 ACL flow identification and filtration Support Ingress Egress Statistics Support IPv4/IPv6/MAC/ARP ACL
QoS	Support priority retagging and complicated flow classification Support to provide flexible bandwidth control policies Support multiple queue schedule algorithms such as SP, WRR and "SP + WRR" Support 802.1p, COS, DiffServ, DSCP, Tail-Drop and WRED Support Flow Monitoring and Traffic Shaping
Easy Network Maintenance	Support CLI via console port or Telnet Support Web management Support SNMP v1, v2c, v3 Support firmware upgrade and configuration file upload/download via TFTP/HTTP/FTP server Support dual images (SPAN, RSPAN), multiple configuration files Support firmware auto upgrade RMON Support MIB II, NTP, Ping, Traceroute and ZTP(Zero Touch Provisioning) Support LLDP (802.1ab)
IPv4/IPv6 Dual Protocol Stack	Support IPv4/IPv6 Dual Protocol Stack Support Unicast/Multicast IPv6 Address Type Support ICMPv6 Support IPv6 Neighbor Discovery and Snooping Support Manual Configuration Support IPv6 DHCP Snooping and MLD Snooping
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 4K Active VLAN, voice VLAN, IEEE 802.1Q VLAN, Private VLAN and VLAN translation Support GVRP, QinQ & Selective QinQ Support IGMP Snooping, Link aggregation, DHCP, EAPS and ERPS Support Broadcast/Multicast/ Unknown Unicast Storm Control Support 5 multicast VLANs Port mirroring and remote port mirror (RSPAN) Support Non-Spanning Tree Loopback detection Support Dynamic Arp Inspection, UDLD, OAM, CFM and Y1731 Support ISSU (In-Service Software Upgrade)

Software requirements

These Series Switches run on FS OS Software version.

Table 5 lists the latest software requirements for the switch models.

Table 5. Latest software requirements

FS P/N	Description	Latest software requirements
S3260-8T2FP	S3260-8T2FP, 8-Port Gigabit Ethernet L2+ PoE+ Switch, 8 x PoE+ Ports @240W, with 2 x 1Gb SFP Uplinks, Support ERPS	FSOS V2.2.0D A92876 Software
S3260-16T4FP	S3260-16T4FP, 16-Port Gigabit Ethernet L2+ PoE+ Switch, 16 x PoE+ Ports @250W, with 2 x 1Gb SFP Uplinks and 2 x Combo SFP Ports, Support IEEE 802.3af/at	FSOS V2.2.0D A92876 Software

Product specifications

Table 6 shows the product specifications for these switches.

Table 6. Product specifications

Description	S3260-8T2FP	S3260-16T4FP
Environmental		
Operating temperature	32° F to 122° F (0°C to 50°C)	32° F to 122° F (0°C to 50°C)
Storage temperature	-4° F to 158° F (-20°C to 70°C)	-4° F to 158° F (-20°C to 70°C)
Operating humidity	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)
Acoustic noise	48dB	45dB
Physical specifications		
Dimensions (HxWxD)	1.77"x11.02"x7.05" (45x280x179mm)	1.73"x17.32"x8.27" (44x440x210mm)
Rack units (RU)	1U	1U
Weight	3.92 lbs (1.78kg)	6.61 lbs (3kg)
Distance	100M	100M

Description	S3260-8T2FP	S3260-16T4FP
Electrical		
Voltage (auto ranging)	100-240VAC	100-240VAC
Frequency	50/60Hz	50/60Hz
Power rating (maximum consumption)	260W/13W (PoE is not included)	250W/31W (PoE is not included)
Mean-time between failures		
MTBF (hours)	>50,000	>50,000
Connectors		
Connectors and cabling	• 1/10GBASE-T ports: RJ-45 connectors, 4-pair Cat5E/Cat6/Cat6a UTP cabling • SFP transceivers: LC fiber connectors (single-mode or multimode fiber) • SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber) • SFP28 transceivers: LC fiber connectors (single-mode or multimode fiber) • QSFP+ transceivers: MPO and LC fiber connectors (single-mode or multimode fiber) • QSFP28 transceivers: MPO and LC fiber connectors (single-mode or multimode fiber) • FS StackWise stacking ports: copper-based FS StackWise cabling • Ethernet management port: RJ-45 connectors, 4-pair Cat5 UTP cabling • 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	802.1s, 802.1w, 802.1x, 802.1d, 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.

Figure 3 shows some of the authoritative certifications obtained by FS Series Switches.



Figure 3.

Optics supported

For details about the optical modules available, visit:

S3260-8T2FP: -

S3260-16T4FP: -

Warranty, service and support

These 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

Ordering information

Table 7 provides the ordering information for S3260 series switches.

Table 7. Ordering information

FS P/N	Product description
Switch hardware	
S3260-8T2FP	S3260-8T2FP, 8-Port Gigabit Ethernet L2+ PoE+ Switch, 8 x PoE+ Ports @240W, with 2 x 1Gb SFP Uplinks, Support ERPS
S3260-16T4FP	S3260-16T4FP, 16-Port Gigabit Ethernet L2+ PoE+ Switch, 16 x PoE+ Ports @250W, with 2 x 1Gb SFP Uplinks and 2 x Combo SFP Ports, Support IEEE 802.3af/at

Additional information

For more information about these Series Switches, contact your account manager or visit

https://www.fs.com/search_result?keyword=S3260

Document history

New or revised topic	Described in	Date
Updates to FS S3260 Series Switches Data Sheet	Updated all	11/21/2022



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