

A solid red circle.

FS S3250 Series Switches Data Sheet

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| Product overview

S3250 series switches are type of layer2 managed PoE switches, With high switching performance and reliability, the product features large cache and low transmission delay, which supports access of Ultra HD video.

S3250-16TF-U 16-port managed PoE+ switch is equipped 4x 10/100/1000MBASE-T PoE++ ports, 12x 10/100/1000MBASE-T PoE+ ports, with 2x 1Gb combo ports, which can be used to link to higher bandwidth upstream equipment. It provides a max power budget of 240W. 4 ports support both IEEE 802.3af/at/bt (up to 90W per port) and 12 ports support both IEEE 802.3af/at (up to 30W per port) for powering attached IP phones, wireless access points, or other standards-compliant PoE, PoE+ and PoE++ end network devices. With high switching performance and reliability, the product features a large cache and low transmission delay, which supports access to Ultra HD video.

S3250-24TF-U 24-port managed PoE+ switch is equipped 4x 10/100/1000MBASE-T PoE++ ports, 20x 10/100/1000MBASE-T PoE+ ports, with 2x 1Gb combo ports, which can be used to link to higher bandwidth upstream equipment. It provides a max power budget of 370W. 4 ports support both IEEE 802.3af/at/bt (up to 90W per port) and 20 ports support both IEEE 802.3af/at (up to 30W per port) for powering attached IP phones, wireless access points, or other standards-compliant PoE, PoE+ and PoE++ end network devices. With high switching performance and reliability, the product features a large cache and low transmission delay, which supports access to Ultra HD video.

With all metal design, the device has good heat dissipation and low power consumption, which can work in environments from 0° C to 45° C. The product owns powerful network management functions. Network management system supports CLI, web and cloud management of IMS cloud system or SNMP management.

| Product highlights

- Supports 250m Long-Distance Power Supply via Four-Pair Ethernet Cable
- Support QoS, VLAN, LACP, ACL etc.
- Advanced Network Monitoring Using SFlow
- Support CLI/WEB/SNMP for Flexible Operation

Platform details

Switch models and configurations

Figures 1 through 2 show the FS S3250 series switches.

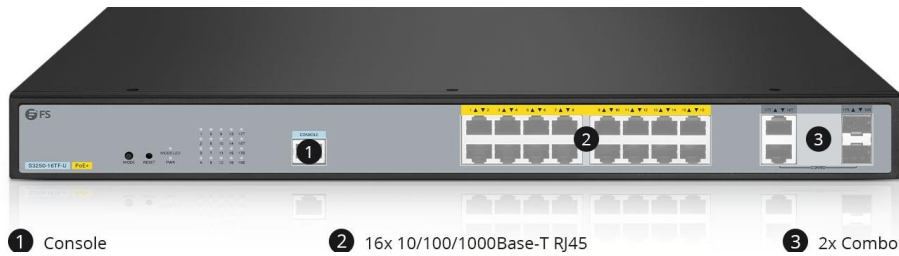


Figure 1.

S3250-16TF-U, 16-Port Gigabit Ethernet L2 PoE++ Switch, 16 x PoE+ Ports @240W, with 2 x 1Gb Combo Uplinks

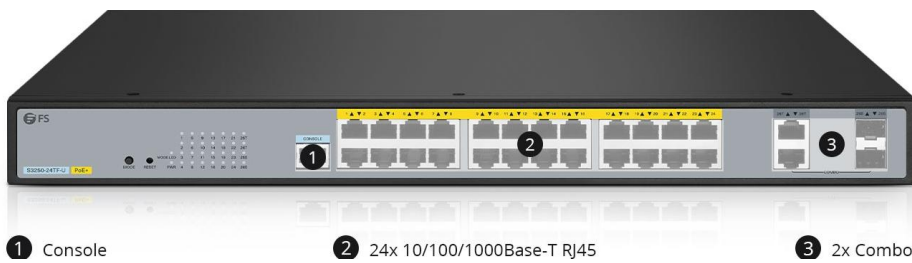


Figure 2.

S3250-24TF-U, 24-Port Gigabit Ethernet L2 PoE++ Switch, 24 x PoE+ Ports @370W, with 2 x 1Gb Combo Uplinks

Switch configurations and port density

Table 1 shows the FS S3250 series configurations and port density.

Table 1. Switch configuration and port density

FS P/N	S3250-16TF-U	S3250-24TF-U
Description	S3250-16TF-U, 16-Port Gigabit Ethernet L2 PoE++ Switch, 16 x PoE+ Ports @240W, with 2 x 1Gb Combo Uplinks	S3250-24TF-U, 24-Port Gigabit Ethernet L2 PoE++ Switch, 24 x PoE+ Ports @370W, with 2 x 1Gb Combo Uplinks
Port		
1G port density	16	24
Management ports	-	-
Console port	1	1
USB port	1	1
Memory and processor		
Switch chip set	RTL8382M	RTL8382M
CPU	-	-
RAM	1GB	1GB
Flash memory	128Mb	128Mb

Note:

RJ45 ports can be used as 100M/1/2.5/5/10G ports for Ethernet connection, does not support 1G-T copper transceivers.

Power supplies and fans

The FS S3250 Series switches ship with the dual 1+1 redundant AC power supply as default.

Table 2 provides more details on the FS S3250 series power supplies and fan specifications.

Table 2. Power supply and fan specifications

Description	S3250-16TF-U	S3250-24TF-U
Power supply	1	1
Fan number	2	2
Airflow	Left-to-Right	Left-to-Right
Acoustic noise	<55dB	<55dB
Maximum fan speed	8550rpm	8550rpm
Max. power consumption	12W (273W with PoE)	12W (416W with PoE)
Power max rating	264.825W	401.25W
Input-voltage range	AC 100-240V,50/60Hz	AC 100-240V,50/60Hz
Power supply efficiency	90%	90%
Input current	4A	7A
Output ratings	100-240V AC	100-240V AC
Output holdup time	≥10 mS	≥10 mS
Power-supply input receptacles	C13	C13
Power cord rating	10A 250V~	10A 250V~
PoE standard	IEEE 802.3af/at/bt	IEEE 802.3af/at/bt
PoE power budget	240W	370W

Power cord

Table 3 lists the power cord information.

Table 3. Power cord information of S3250 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

Switch performance

Table 4 shows performance specifications for the FS S3250 series switches.

Table 4. Performance specifications

Performance for all S3250 Series Switches	S3250-16TF-U	S3250-24TF-U
Switching capacity	36 Gbps	52 Gbps
Forwarding rate	26.78 Mpps	38.69 Mpps
Total number of MAC addresses	8K	8K
Total number of IPv4 routes (indirect routes)	64	64
Total number of IPv4 host routes (direct routes and ARP)	2110 (64, 2046)	2110 (64, 2046)
QoS ACL scale	256	256
Security ACL scale	256	256
VLAN IDs	4094	4094
STP virtual ports (port* VLANs) for MST	64	64
Total switched virtual interfaces (SVIs)	4094	4094
Jumbo frame	9216 bytes	9216 bytes

Platform benefits

Table 5 lists the software spotlights for the FS S3250 series switches.

Table 5. Software spotlights

Functionality	Description
High Availability And Multi-Service Support	Support IEEE 802.3af/at/bt PoE Support 4K static VLAN Support static/LACP link aggregation Support IGMP Snooping Support static route
Error-Free Network Configuration	Support STP/RSTP/MSTP Support web-based management Support SNMP, RMON, Telnet Support LLDP (802.1ab) Support QoS, Port Mirroring, Link Aggregation Protocol
Secure And Simplified Access for Users And IoT	Support IEEE 802.1x Support DHCP snooping Support ACL Support WRR Support broadcast/uncast/multicast storm control
High reliability	Support the spanning tree protocols (STPs) Support virtual router redundancy protocol (VRRP) Support rapid link detection protocol (RLDP) Support rapid Ethernet uplink protection protocol (REUP) Support bidirectional forwarding detection (BFD)
Perfect compatibility performance	Support IEEE802.3 standard protocols, enabling good interoperability with other brands of equipment at the forwarding level Compatible with standard protocols such as MSTP/OSPF/RIP/BGP/VRRP/SNMP/IS-IS/DHCP/NTP of other equipment
Easy network maintenance	Support SNMP (managed by Zabbix), RMON, log and configuration backup Support Syslog, Web-based management, Telnet, SSH, Openflow, Netconf CLI style is similar to Cisco, easy to learn
IPv4/IPv6 dual-stack multi-layer switching	Support line-rate IPv4/IPv6 dual-stack multi-layer switching Support RIP, OSPFv2, IS-ISv4, BGP4, static routing, RIPv4, OSPFv3, IS-ISv6, and BGP4+ Support IPv6 addressing, ICMPv6, path MTU discovery
QoS	Support classifying and controlling various flows Support 802.1p, IP ToS, traffic filtering, SP, WRR Support flow bandwidth control, forwarding priority, and other flow policies
Strong multi-service support capability	Support the IPv4 and IPv6 multicast functions Support IGMP snooping, IGMP, MLD, PIM, MSDP Support IGMP source port and source IP check function
Energy efficiency	Hardware architecture to reduce energy consumption and noise Variable-speed axial fans to intelligently control the fan speed

Software requirements

The FS S3250 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
S3250-16TF-U	S3250-16TF-U, 16-Port Gigabit Ethernet L2 PoE++ Switch, 16 x PoE+ Ports @240W, with 2 x 1Gb Combo Uplinks	-
S3250-24TF-U	S3250-24TF-U, 24-Port Gigabit Ethernet L2 PoE++ Switch, 24 x PoE+ Ports @370W, with 2 x 1Gb Combo Uplinks	-

Product specifications

Table 7 shows the product specifications for the FS S3250 series switches.

Table 7. Product specifications

Description	S3250-16TF-U	S3250-24TF-U
Environmental		
Operating temperature	32° F to 113° F (0°C to 45°C)	32° F to 113° F (0°C to 45°C)
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 90% (Non-condensing)	5% to 90% (Non-condensing)
Physical specifications		
Dimensions (HxWxD)	1.73"x 17.32" x 12.99" (44x440x330mm)	1.73"x 17.32" x 12.99" (44x440x330mm)
Rack units (RU)	1 RU	1 RU
Weight	4.43kg	4.58kg

Description	S3250-16TF-U	S3250-24TF-U
Distance	250m (via four-pair Ethernet cable)	250m (via four-pair Ethernet cable)
Electrical		
Voltage (auto ranging)	100-240VAC	100-240VAC
Frequency	50-60Hz	50-60Hz
Current	3A Max	3A Max
Power rating (maximum consumption)	430W	280W
Mean-time between failures		
MTBF (hours)	200000	200000
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, 802.1ad, 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.

Figure 4 shows some of the authoritative certifications obtained by FS S3250 Series Switches.



Figure 4.

Warranty, service and support

FS S3250 Series Switches enjoy 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 8 provides the ordering information for S3250 series switches.

Table 8. Ordering information

FS P/N	Product description
Switch hardware	
S3250-16TF-U	S3250-16TF-U, 16-Port Gigabit Ethernet L2 PoE++ Switch, 16 x PoE+ Ports @240W, with 2 x 1Gb Combo Uplinks
S3250-24TF-U	S3250-24TF-U, 24-Port Gigabit Ethernet L2 PoE++ Switch, 24 x PoE+ Ports @370W, with 2 x 1Gb Combo Uplinks

Additional information

For more information about the S3250 Series Switches, contact your account manager or visit https://www.fs.com/search_result?keyword=S3250

Document history

New or revised topic	Described in	Date
Updates to FS S3250 Series Switches Data Sheet	Updated all	8/1/2024



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