

A dark, atmospheric photograph of a server room with rows of server racks and overhead lighting.

FS S2500L Series Switches Data Sheet

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| Product overview

FS S2500L Series Gigabit Ethernet Unmanaged Switches provide a seamless network connection, all ports support Auto MDI/MDIX function. With the 10/100/1000Mbps Auto-Negotiation RJ45 ports, the switches are an ideal choice to promote the performance of the department and working group, can provide a high-performance network applicable solution in simple, economical and standard ways.

The S2500L-18T2F-P is equipped with 18x 10/100/1000M Auto-Negotiation RJ45 ports, 2x 1G SFP uplinks. The 16 ports support IEEE 802.3af/at PoE+ (up to 30W per port), powering IP phones, wireless access points, and other standards-compliant network devices. It is designed with a professional integrated lightning protection circuit to ensure stable operation. The IEEE 802.3az energy-saving design can adjust power consumption according to network activity status to save power. This cost-effective, plug-and-play L2 unmanaged switch is ideal for SOHO office, intelligent community and parks with limited IT know-how and support.

The S2500L-24T is equipped with 24x 10/100/1000M Auto-Negotiation RJ45 ports, all ports support Auto MDI/MDIX function. Its fanless design ensures noise-free switch operation, while the IEEE 802.3az energy-saving technology adjusts power consumption based on network activity to conserve energy. The switch features professional integrated lightning protection circuit for stable operation. This cost-effective, plug-and-play L2 unmanaged switch can meet the SOHO office, intelligent community and parks access requirements.

| Product highlights

- Plug and Play, No Configuration Needed
- 18x 10/100/1000Mbps Auto-Negotiation RJ45 Ports, 2x 1G SFP Ports (Only for S2500L-18T2F-P Switch)
- 24x 10/100/1000Mbps Auto-Negotiation RJ45 Ports (Only for S2500L-24T Switch)
- 16 PoE+ Ports with 240W Total Power Budget (Only for S2500L-18T2F-P Switch)
- Support Port Auto MDI/MDIX
- Fanless Design, Always Working Silently (Only for S2500L-24T Switch)
- Energy Efficient Design Compliant with IEEE 802.3az
- Durable Metal Casing, Desktop or Rackmount Options
- Double Lightning Protection to Ensure Stable Data Transmission

Platform details

Switch models and configurations

Figures 1 through 2 show the FS S2500L series switches.



- ① 18x 10/100/1000MBASE-T RJ45 ② 2x 1G SFP

Figure 1.

S2500L-18T2F-P, 18-Port Gigabit Ethernet L2 Unmanaged PoE+ Switch, 16 x PoE+ Ports@240W, 2 x 1Gb RJ45, with 2 x 1Gb SFP Uplinks, Desktop/Rackmount



- ① 24x 10/100/1000MBASE-T RJ45

Figure 2.

S2500L-24T, 24-Port Gigabit Ethernet L2 Unmanaged Switch, 24 x 10/100/1000M Gigabit RJ45, Fanless, Desktop/Rackmount

Switch configurations and port density

Table 1 shows the FS S2500L series configurations and port density.

Table 1. Switch configuration and port density

FS P/N	S2500L-18T2F-P	S2500L-24T
Description	S2500L-18T2F-P, 18-Port Gigabit Ethernet L2 Unmanaged PoE+ Switch, 16 x PoE+ Ports@240W, 2 x 1Gb RJ45, with 2 x 1Gb SFP Uplinks, Desktop/Rackmount	S2500L-24T, 24-Port Gigabit Ethernet L2 Unmanaged Switch, 24 x 10/100/1000M Gigabit RJ45, Fanless, Desktop/Rackmount

Port		
1G port density	20	24

Memory and processor

Flash memory	1MB (NOR)	1MB (NOR)
Packet buffer	4.1MB	4MB

Note:

RJ45 ports can be used as 10/100/1000M ports for Ethernet connection.
 SFP ports can be used for 1G connection.

Power supplies and fans

Table 2 provides more details on the FS S2500L series power supplies and fan specifications.

Table 2. Power supply and fan specifications

Description	S2500L-18T2F-P	S2500L-24T
Power supply	Single power supply	Single power supply
Fan number	2 Built-in Fans	Fanless
Airflow	Left-to-Right	-
Acoustic noise	≤32.6dB	0dB
Maximum fan speed	6000rpm	-
Max. power consumption	277W	16W
Power max rating	265W	18W
Input-voltage range and frequency	AC 100-240V 50/60Hz	AC 100-240V 50/60Hz
Power supply efficiency	≥92%	≥80.29%
Input current	4.95A	1.5A
Output ratings	53.5V DC	12V DC
Power cord rating	250V 10A	250V 10A
PoE standard	IEEE 802.3af/at	-
PoE power budget	240W	-

Switch performance

Table 3 shows performance specifications for the FS S2500L series switches.

Table 3. Performance specifications

Performance for all S2500L Series Switches	S2500L-18T2F-P	S2500L-24T
Switching capacity	40 Gbps	48 Gbps
Forwarding rate	29.76 Mpps	35.7 Mpps
Total number of MAC addresses	8000	8000
Jumbo frame	15000 Bytes	15000 Bytes

Product specifications

Table 4 shows the product specifications for the FS S2500L series switches.

Table 4. Product specifications

Description	S2500L-18T2F-P	S2500L-24T
Environmental		
Operating temperature	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)
Storage temperature	-40 to 70°C (-40 to 158°F)	-40 to 70°C (-40 to 158°F)
Operating humidity	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)
Storage humidity	5% to 90% (Non-condensing)	5% to 90% (Non-condensing)
Temperature alarm	55°C	55°C
Acoustic noise	≤32.6dB	0dB
Physical specifications		
Dimensions (HxWxD)	1.73"x17.32"x8.19" (44x 440x208mm)	1.73"x11.02"x7.09" (44x280x180mm)
Rack units (RU)	1 RU	1 RU
Weight	6.83 lbs (3.1kg)	4.74 lbs (2.15kg)

Description	S2500L-18T2F-P	S2500L-24T
Electrical		
Voltage (auto ranging)	100-240VAC	100-240VAC
Frequency	50-60Hz	50-60Hz
Current	4.95A Max	1.5A Max
Power rating (maximum consumption)	277W	16W
Mean-time between failures		
MTBF (hours)	>50000	>50000
Connectors		
Connectors and cabling	10/100/1000MBASE-T ports: RJ-45 connectors, 4-pair Cat5E/Cat6/Cat6a UTP cabling - SFP transceivers: LC fiber connectors (single-mode or multimode fiber)	10/100/1000MBASE-T ports: RJ-45 connectors, 4-pair Cat5E/Cat6/Cat6a UTP cabling
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	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3az	

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 S2500L Series Switches.



Figure 3.

Warranty, service and support

FS S2500L Series Switches enjoy 2 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 5 provides the ordering information for S2500L series switches.

Table 5. Ordering information

FS P/N	Product description
Switch hardware	
S2500L-24T	S2500L-24T, 24-Port Gigabit Ethernet L2 Unmanaged Switch, 24 x 10/100/1000M Gigabit RJ45, Fanless, Desktop/Rackmount
S2500L-18T2F-P	S2500L-18T2F-P, 18-Port Gigabit Ethernet L2 Unmanaged PoE+ Switch, 16 x PoE+ Ports@240W, 2 x 1Gb RJ45, with 2 x 1Gb SFP Uplinks, Desktop/Rackmount

Additional information

For more information about the S2500L Series Switches, contact your account manager or visit https://www.fs.com/search_result?keyword=S2500L

Document history

New or revised topic	Described in	Date
Updates to FS S2500L Series Switches Data Sheet	Updated all	12/16/2024



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 9910
Email: us@fs.com

Munich (Germany)

Address: NOVA Gewerbepark Building 7, Am
Gfild 7,85375 Neufahrn bei Munich, Germany
Tel: +49 (0) 8131 377 3008
Email: de@fs.com

Singapore

Address: 30A Kallang Pl, #11-10/11/12 Singapore
339213
Tel: +65 3138 1992
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: +44 (0) 121 726 4775
Email: uk@fs.com

Melbourne (Australia)

Address: 57-59 Edison Rd, Dandenong South,
VIC 3175, Australia
Tel: +61 3 5909 9990
Email: au@fs.com

Tokyo (Japan)

Address: JS Progress Building, 4-1-23 Heiwajima,
Ota-ku, Tokyo 〒143-0006
Tel: +81 3 6897 9438
Email: jp@fs.com



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