

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

FS S3700-24T4F Switch Data Sheet

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Product overview

S3700-24T4F is a Gigabit access switch designed for carrier's IP MAN (Metropolitan Area Network) and enterprise networks. It features 24 10/100/1000BASE-T RJ45 ports and 4 1G SFP optical ports. It can be managed with the Command Line Interface (CLI) and web-based Graphical User Interface. Advanced Layer 2 function, static routing, and a suite of security and management features make the S3700-24T4F switch ideal for all organizations considering reliable, affordable and simple access layer switching.

Product highlights

- Fanless Design, Always Working Silently
- Support STP, RSTP, MSTP, LACP
- IEEE 802.1x, Radius and Tacacs+ for Management Security
- Support ACL, QinQ, QoS, RIP
- Support CLI/WEB/SNMP/SSH for Flexible Operation

Platform details

Switch models and configurations

Figures 1 show the FS S3700-24T4F switches.

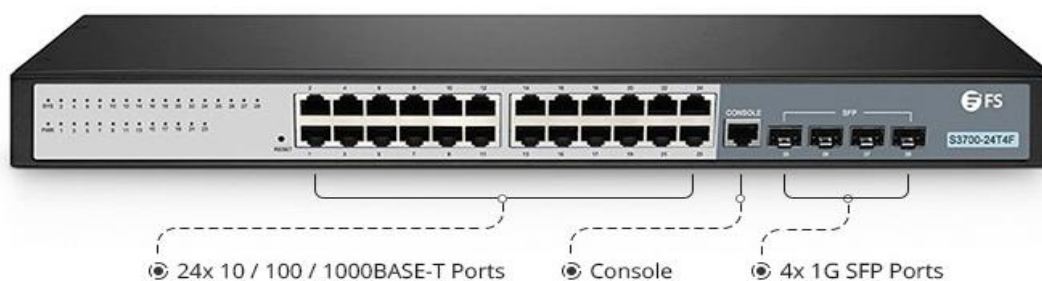


Figure 1.

S3700-24T4F, 24-Port Gigabit Ethernet L2+ Switch, 24 x Gigabit RJ45, with 4 x 1Gb SFP, Fanless

Switch configurations and port density

Table 1 shows the FS S3700-24T4F configurations and port density.

Table 1. Switch configuration and port density

FS P/N	S3700-24T4F
Description	24-Port Gigabit Ethernet L2+ Switch, 24 x Gigabit RJ45, with 4 x 1Gb SFP, Fanless
Port	
1G port density	28
10G port density	-
25G port density	-
40G port density	-
100G port density	-
10G port density with breakout cable	-
25G port density with breakout cable	-
40G port density with breakout cable	-
Management ports	-
Console port	1
USB port	-
Memory and processor	
Switch chip	RTL8382M
CPU	RTL8382M
RAM	128MB
SDRAM	-
Flash memory	16MB
Latency	54.2uSec/206.818uSec
Packet buffer	4.1MB

Note:

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

Power supplies and fans

Table 2 provides more details on the FS S3700-24T4F power supplies and fan specifications.

Table 2. Power supply and fan specifications

Description	S3700-24T4F
Power supply	1Built-in
Fan number	0
Airflow	-
Acoustic noise	0dB
Maximum fan speed	-
Max. power consumption	15W
Power max rating	18W
Input-voltage range and frequency	100-240VAC, 50-60Hz
Power supply efficiency	79%
Input current	0.75A
Output ratings	12V DC, 1.5A
Output holdup time	5 mS min
Power-supply input receptacles	C13
Power cord rating	250V 10A

Switch performance

Table 3 shows performance specifications for the FS S3700-24T4F switch.

Table 3. Performance specifications

Performance	S3700-24T4F
Switching capacity	56 Gbps
Forwarding rate	42 Mpps
Total number of MAC addresses	8K
Total number of IPv4 routes (indirect routes)	128
Total number of IPv4 host routes (direct routes and ARP)	384
Total number of IPv6 routes (indirect routes)	64
Total number of IPv6 host routes (direct routes and NDP)	185
Total number of IPv4 multicast routes	509
Total number of IPv6 multicast routes	509
QoS ACL scale	895
Security ACL scale	895
VLAN IDs	4K
STP virtual ports (port* VLANs) for MST	28
Total switched virtual interfaces (SVIs)	10
Jumbo frame	9KB

Platform benefits

Table 4 lists the software spotlights for the FS S3700-24T4F switch.

Table 4. Software spotlights

Functionality	Description
High Availability And Multi-Service Support	Support static/LACP link aggregation Support static routing Support ICMPv6, DHCPv6 and IPv6 Telnet Support 802.1P/DSCP priority remark Support GVRP, QinQ Support BFD mechanism
Error-Free Network Configuration	Support Web-based management, Telnet Support EAPS and ERPS Support ACL Ingress/Egress Support SNMP v1/v2/v3, RMON Support LLDP (802.1ab) Support static configuration and dynamically learning of MAC address
Secure And Simplified Access for Users And IoT	Support defend against DDoS attack, SYN Flood attack of TCP or UDP Flood attack Support IEEE 802.1x authentication Support RADIUS and Tacacs+ authentication Support port isolation, port security, IP+MAC+port binding Support Access Control Lists (ACL, L2 to L4) Support IGMP Snooping

Software requirements

The FS S3700-24T4F Switch 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
S3700-24T4F	S3700-24T4F, 24-Port Gigabit Ethernet L2+ Switch, 24 x Gigabit RJ45, with 4 x 1Gb SFP, Fanless	S3700-24T4F Switch FSOS V2.2.0D 105461 Software

Product specifications

Table 6 shows the product specifications for the FS S3700-24T4F switch.

Table 6. Product specifications

Description	S3700-24T4F
Environmental	
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-40 to 70°C (-40 to 158°F)
Operating humidity	10% to 90% (Non-condensing)
Temperature alarm	no
Acoustic noise	0dB
Physical specifications	
Dimensions (HxWxD)	1.73"x17.32"x8.27" (44x440x210mm)
Rack units (RU)	1U
Weight	4.41 lbs (2kg)
Distance	100M
Electrical	
Voltage (auto ranging)	100-240VAC
Frequency	50-60Hz
Current	0.75A
Power rating (maximum consumption)	18W
Mean-time between failures	
MTBF (hours)	>50000

Description	S3700-24T4F
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)
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	

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 2 shows some of the authoritative certifications obtained by FS S3700-24T4F Switches.



Figure 2. S3700-24T4F

Optics supported

For details about the optical modules available, visit:

S3700-24T4F: [Transceivers DACs and AOCs Supported on S3700-24T4F Switch](#)

Warranty, service and support

FS S3700-24T4F Switches enjoy 4 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.[support.html](#)

- 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 S3700-24T4F switches.

Table 7. Ordering information

FS P/N	Product description
Switch hardware	
S3700-24T4F	S3700-24T4F, 24-Port Gigabit Ethernet L2+ Switch, 24 x Gigabit RJ45, with 4 x 1Gb SFP, Fanless

Additional information

For more information about the S3700-24T4F Switches, contact your account manager or visit <https://www.fs.com/products/84912.html>

Document history

New or revised topic	Described in	Date
Updates to FS S3700-24T4F Switches Data Sheet	Updated all	12/19/2022