

FS S3410-24TS-P and S3400-24T4FP Switch Competitive Comparison



S3410-24TS-P



S3400-24T4FP

Product Comparison Models

- S3410-24TS-P
- S3400-24T4FP

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Product Software Function

Compared with S3410-24TS-P switch, S3400-24T4FP has a great improvement in function. The Layer 3 equipment network will be more flexible, which can do more strategies, software control and software linkage, etc. Support Stacking¹ 4 same models to increase ports, bandwidth and simplify management.

S3410-24TS-P Switches Features

- Support diversified security features to ensure network stable and meet more choices for users.
- The operation and maintenance methods are more abundant to meet the various operation and maintenance requirements of technical experts and technical novices.
- Deliver full Gigabit access and unparalleled scalability to 10G performance. It supports all downlink ports running on PoE+ and fulfill high bandwidth demand of 10G uplink.
- Green and energy-saving, it supports EEE (Efficient Energy-Efficient Ethernet) protocol, which can help customers reduce expenses while extending the service life of equipment.

Models	S3410-24TS-P	S3400-24T4FP
Security	<ul style="list-style-type: none"> • Port security, IP Source Guard, Dynamic Arp Inspection; • Support IP+MAC data binding using DHCP SNOOPING²; • Support IP+MAC data binding using IP SOURCE GUARD; • Hardware CPP, DHCP anti-attack, ICMP anti-attack, anti-IP anti-scanning attack, DHCP V6 anti-attack, trusted ARP; • Support VRRP dual-core environment deployment; • Support IP+MAC data binding using port security; • Support the use of 1X IP+MAC data binding; • Web Portal V2.0; • Support setting the IP range of network resources without authentication; • Support setting the IP range of authentication-free users; • Support IPV6 certification; • Support HTTPS access 	<ul style="list-style-type: none"> • Port isolation • Port security • IP+MAC+port binding • MAC sticky • HTTPS and SSL • DHCP Snooping • Option 82 • IP Source guard • DoS Protection Anti-attack from DDoS • TCP's SYN Flood
Operation and Maintenance Method	SNMP ³ , Web, RMON, SFLOW, Syslog/Debug	SNMP, RMON, HTTP, Telnet, SSH
Layer 3 Feature	Support IPv4/IPv6 RIP/OSPF ⁴	RIP, OSPF
Stackability	4 Units	NO

Product Performance

Compared with S3400-24T4FP switch, S3410-24TS-P uses Broadcom BCM56150 switch chip to ensure high performance. High-level integration between the MAC chip and CPU, featuring high stability, high reliability, and low-power consumption. With DDRIII 512MB SDRAM and 512 MB flash memory, preventing internal processing bottlenecks and ensuring stable and efficient transmission.

Models	S3410-24TS-P	S3400-24T4FP
1G RJ45 Port	24	24
1G Combo Port	2	4
10G SFP+ Port	2	/
Layer Type	Layer 2+	Layer 2+
Switch Chip	BCM56150	RTL8382M
Switching Capacity	88 Gbps	56 Gbps
Forwarding Rate	66 Mpps	42 Mpps
Packet Buffer	1.5MB	4.1MB
SDRAM	DDRIII 512MB	DDRIII 128MB
Routing Table	500	IPv4: 384 IPv6: 185
MAC Address	16K	8K

Product Reliability

S3410-24TS-P Switch Features

- Support VRRP⁵ to effectively ensure network stability. Suitable for scenarios such as finance, retail, call center, etc.
- Support RLDP⁶, which can quickly detect the on-off of the link and the unidirectionality of the optical fiber link. Support the loop detection function under the port to prevent network failures caused by loops formed by privately connecting Hub and other devices under the port. Suitable for scenarios such as retail, hospital, enterprise, etc.
- In the case of not enabling STP, REUP⁷ can be used to provide a fast on-chain protection function. REUP enables users to provide basic link redundancy even when STP is turned off, while providing millisecond-level failure recovery faster than STP. Suitable for scenarios that require quick failure recovery.
- Support stacking millisecond fault recovery: Stacking devices and peripheral devices are connected through aggregated links. If one of the devices or a member link fails, it only takes 50 to 200 milliseconds to switch to another member link.
- Support rich Authentication methods, QoS, CPU Protection, ARP spoofing prevention

Models	S3410-24TS-P	S3400-24T4FP
VRRP	Yes	No
RLDP	Yes	No
REUP	Yes	No
CPU Protection Policy (CPP ⁸)	Yes	No

Product Hardware

S3410-24TS-P Switch Features

- Use modular power supply to improve equipment stability and reliability. When the power supply fails, it can be directly replaced by the continuous network.
- Larger flash memory allows customers to save more configurations and systems, etc., to facilitate maintenance.
- Larger SDRAM makes the device run better.
- The port lightning protection index reaches 6KV, and the lightning protection 8KV-10KV.
- Key components such as fans and power supplies that are prone to accumulate dust are coated with three anti-corrosion to prevent corrosion by dust.
- Full 24-Port PoE+ Support. (When PoE load is less than 370W, the device supports powering redundancy under dual power supplies conditions.)
- Suitable for IP phones, WLAN access points and high-definition cameras access. This switch is equipped with a PoE button to check the status of current communication and power supply. You can view the status of all ports.

Models	S3410-24TS-P	S3400-24T4FP
Flash Memory	512MB	16MB
Lightning Protection	8KV-10KV	6KV
Material	Conformal Coating	OSP
Power Supply	1+1 Hot-swappable Power Supplies	Single Power Supply

Features Explanation

Stacking¹: The switch has the ability to be connected to other switches and operate together as a single unit, which is useful for quickly increasing the capacity of a network.

DHCP SNOOPING²: DHCP snooping is a security feature that acts like a firewall between untrusted hosts and trusted DHCP servers. The fundamental use case for DHCP snooping is to prevent unauthorized (rogue) DHCP servers offering IP addresses to DHCP clients.

SNMP³: Simple Network Management Protocol (SNMP) is an Internet Standard protocol for collecting and organizing information about managed devices on IP networks and for modifying that information to change device behavior. Devices that typically support SNMP include cable modems, routers, switches, servers, workstations, printers, and more.

OSPF⁴: Open Shortest Path First (OSPF) ensures an optimal access path. Suitable for scenarios such as finance, traffic, large office network, etc.

VRRP⁵: The Virtual Router Redundancy Protocol is a computer networking protocol that provides for automatic assignment of available Internet Protocol (IP). Suitable for scenarios such as finance, retail, call center, etc.

RLDP⁶: The Rapid Link Detection Protocol is a link protocol used to quickly detect Ethernet link failures. Suitable for scenarios such as retail, hospital, enterprise, etc.

REUP⁷: Rapid Ethernet Uplink Protection provides a fast on-chain protection function. It is a solution that provides a reliable and efficient backup and switching mechanism for dual uplinks. It can provide faster convergence performance and is often used in dual-uplink networking. Suitable for scenarios that require quick failure recovery.

CPP⁸: CPU Protection Policy (CPP) distinguishes the data flows sent to the CPU, which are processed according to their priorities, and implements bandwidth limitations as needed. In this manner, users can prevent the CPU from being occupied by illegal traffic and protect against malicious attacks to guarantee security of the CPU and switch.

Online Resources

S3410-24TS-P Switch Datasheet: <https://img-en.fs.com/file/datasheet/s3410-24ts-p-poe+-switch-datasheet.pdf>

S3400-24T4FP Switch Datasheet: <https://img-en.fs.com/file/datasheet/s3400-24t4fp-poe+-sereis-switches-datasheet.pdf>



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