

FS S3910-24TF and S3700-24T4F Switch Competitive Comparison



S3910-24TF



S3700-24T4F

Product Comparison Models

- S3910-24TF
- S3700-24T4F

Contents

- Product Software Function
- Product Hardware
- Product Performance

Product Software Function

Both of the S3910-24TF and S3700-24T4F switches offer rich L2+ functions.

- Support IPv4 and IPv6 dual stack protocols.
- Support diversified security features to ensure network stability and satisfy users with more choices.
- Rich operation and maintenance methods to meet various operation and maintenance needs of technical experts and technical novices.
- Provides full gigabit access and unmatched scalability for 1G performance.
- Supports LACP. When a link fails, the LACP mode will automatically adjust the links in the aggregation group, and other available member links in the group will take over the failed links to maintain load balance. In this way, the logical bandwidth between devices can be increased and the reliability of the network can be improved without hardware upgrade.

The Difference Between S3910-24TF and S3700-24T4F Switches in terms of Software

Compared with S3700-24T4F, S3910-24TF switch

- Support VRRP to effectively ensure network stability. It is suitable for financial, retail, call center and other scenarios.
- Support Stacking¹ 4 switches stacking
- Green and energy-saving, supporting EEE (Efficient Energy-Efficient Ethernet) protocol, which can help customers reduce expenses while prolonging the service life of equipment.

Compared with S3910-24TF, S3700-24T4F switch

- Support ISSU

Models	S3910-24TF	S3700-24T4F
Stackability	Up to 4 Units	/

Security	• Support ARP spoofing prevention • Support actively defending against various DDoS attacks • Support hardware CPU protection mechanism • Support Network Foundation Protection Policy (NFPP) • Support DHCP snooping • 3-tuple binding (IP/IPv6 address, MAC address, and port) • Port-and MAC-based 802.1x authentication • Hierarchical management of administrators and password protection • RADIUS and TACACS+ • AAA (IPv4/IPv6) for device login management • BPDU guard • IP source guard	• 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)
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Operation and Maintenance Method	- Support SNMP²(Managed by Zabbix), RMON, log and configuration backup - Support Syslog, CLI, Web-based management, Telnet, SSH - Support TFTP/FTP	- Support Console, Telnet, SSH 2.0 - Support Web based management - Support SNMP v1/v2/v3, RMON - Support TFTP/FTP - Support SPAN/RSPAN
Layer 3 Feature	- Support a wide range of IPv4 routing protocols, including static routing, RIP, and OSPF³. - IPv6 Static routing,OSPFv3 - Support the IPv4 and IPv6 multicast functions - Support IGMP, MLD, PIM, MSDP - Support IGMP source port and source IP check function	- IPv4 Static routing - ICMPv6, IPv6 - IPv6 Neighbor Discovery - IPv6 based Ping/Traceroute/Telnet/SSH - MLD v1/v2
Type	Fully Managed Pro	Fully Managed
STP/RSTP/MSTP	Yes	Yes
LACP⁴	Yes	Yes
ERPS⁵	Yes	Yes
Voice Vlan⁶	Yes	Yes
EEE	Yes	No
RLDP	Yes	No
VRRP⁷	Yes	No
OSPF	Yes	No
ISSU	No	Yes

Product Hardware

- Fanless and noiseless design, always working silently.
- Three layers of anti-corrosion coating are used for key parts that are prone to dust accumulation, such as power supply, to prevent corrosion and dust.

Compared with S3700-24T4F, the hardware function of S3910-24TF has been greatly improved

- Having larger flash memory allows customers to save more configurations and systems etc. for easier maintenance, and larger SDRAM makes the device run better.
- Port lightning protection index reaches 10KV.

Models	S3910-24TF	S3700-24T4F
Power Supply	1 Built-in	1 Built-in
Fan Number	Fanless	Fanless
Flash Memory	256MB	16MB (NOR)
Lightning Protection	up to 10 kV	/
DRAM	512MB (SDRAM)	128MB

Product Performance

Compared with S3700-24T4F, S3910-24TF has more advantages in product performance

- Adopt Broadcom BCM56152 switch chip to ensure high performance. The MAC chip is highly integrated with the CPU, and has the characteristics of high stability, high reliability, and low power consumption.
- All 4 1G ports can be used for stacking, the packet buffer is up to 1.5MB, has a larger routing table, and learns more MAC addresses.

Models	S3910-24TF	S3700-24T4F
RJ45 Ports	24x 10/100/1000BASE-T RJ45	24x 10/100/1000BASE-T RJ45
SFP Ports	4x 1G SFP	4x 1G SFP
Layer Type	L2+	L2+
Switching Capacity (Gbps)	56 Gbps	56 Gbps
Forwarding Rate(Mpps)	42 Mpps	42 Mpps
Packet Buffer	1.5MB	0.5MB
Routing Table	IPv4:500 IPv6:500	/
MAC Address	16K	8K
Switch Chip	BCM56152	RTL8382M

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.

SNMP²: 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.

OSPF³(Open Shortest Path First): ensures an optimal access path. Suitable for scenarios such as finance, traffic, large office network, etc.

LACP⁴: Combining multiple network connections in parallel in order to increase throughput beyond what a single connection could sustain, and to provide redundancy in case one of the links should fail.

ERPS⁵ (Ethernet Ring Protection Switching): ERPS implements loop blocking and link recovery faster than STP on the main device, and can effectively add redundancy and up-time protection to any network. ERPS enables failover protection in sub-50ms.

Voice VLAN⁶: The Voice VLAN feature enables access ports to carry IP voice traffic from an IP phone. When the switch is connected to an IP Phone, the phone sends voice traffic with Layer 3 IP precedence and Layer 2 class of service (CoS) values.

VRRP⁷: 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.

Online Resources

S3910-24TF Switch Datasheet: <https://img-en.fs.com/file/datasheet/s3910-series-switches-datasheet.pdf>

S3700-24T4F Switch Datasheet: <https://img-en.fs.com/file/datasheet/s3700-24t4f-switch-datasheet.pdf>