



10G uplink 24 Port Gigabit Layer 3 Managed Switch

S5700-24G-4F-4TF

Product brochure

Product introduction

The S5700-24G-4F-4TF Layer 3 Managed Switch is designed for Small and Medium Enterprises (SMEs), Large Enterprises and Internet Service Providers (ISPs). They offer high performance, flexibility, fault tolerance and advanced software features for maximum return on investment. The S5700-24G-4F-4TF switch features Gigabit Ethernet RJ45 and SFP ports, 10 GbE SFP+ ports, advanced security features and advanced Quality of Service (QoS) and can be used as a core, distribution or access layer switch with high port Density,



Main features:

Port 6KV lightning protection, dual power redundant design

- All ports support 6KV lightning protection.
- Dual power redundant design, support seamless switchover in case of failure without manual intervention.

Advanced hardware architecture design, powerful processing capability

- Using high-performance switching chips, it can meet the application requirements of various complex scenarios and greatly improve the network data processing rate.

Powerful business processing capabilities

- Support 802.1Q VLAN, MAC VLAN, IP VLAN, users can flexibly divide VLAN as needed.
- Support QoS, 8 port queues, support port priority, 802.1P priority, DSCP priority, support SP, WRR, SP+WRR, WFQ priority scheduling algorithm.
- Support ACL, support L2 (Layer 2) ~ L4 (Layer 4) packet filtering function, provide flexible and secure access control policy.
- Support IGMP v1/v2/v3 Snooping, MLD v1/v2 Snooping, to meet the requirements of multi-terminal HD video surveillance or video conference.
- Supports the fast leave mechanism and querier of Layer 2 multicast, supports Layer 2 IPv4 static multicast and Layer 2 IPv6 static multicast.
- Support RIP dynamic routing protocol, solve the routing problem after the small and medium-sized network is divided into subnets, and simplify the network configuration.
- Support static routing protocol, and manually configure routing entries to realize communication between different network segments.
- Support proxy ARP, so that hosts in different physical networks on the same network segment can communicate normally.

Perfect security mechanism

- Complete security authentication mechanism: It supports IEEE 802.1x, Radius, Tacacs+, etc., and can provide users with a complete security authentication mechanism.
The perfect loop detection mechanism can ensure the stable operation of the network for a long time.
Provide port isolation in the same VLAN, and security features such as DHCP-Snooping, IP+MAC+port binding, etc., to further ensure user data security.
Support ARP protection, IP source protection, DoS protection.
- Support to restrict user access based on port number, IP address, and MAC address.

Diverse reliability protection

- Support STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) protocols to eliminate Layer 2 loops and implement link backup.
- Support loop protection, root bridge protection, TC protection, BPDU protection, and BPDU filtering.
- Support 50ms switching of optical ports.

Flexible and convenient management and maintenance

- Support various management methods such as Console, Telnet, and SSH.
- Support WEB management (HTTP, HTTPS, SSL V3), which is simpler and more efficient, and is convenient for users to install and debug.
- Support file upload and download management in TFTP mode.
- Support SNMP V1/V2/V3 to facilitate device management through the network management platform.
- Support one-stop management and maintenance of FengrunDa Apollo cloud platform, which can realize all-round remote operation and maintenance such as automatic device discovery, network topology management, and remote configuration management of devices.

Product Specifications :

| Hardware Specifications | |
|-------------------------------------|--|
| Network Interface | <ul style="list-style-type: none"> ● 24 * 10/100/1000Mbps RJ45 Port ● 4 * 10G SFP+ Port ● 4 * Gigabit SFP Port(Combo) ● 1 RJ45 Console Port , 1 10/100Mbps RJ45 managed Port ● 1 USB 2.0 interface,1 Mini-usb Console |
| Network protocol standard | <ul style="list-style-type: none"> ● IEEE 802.3,IEEE 802.3i,IEEE 802.3u,IEEE 802.3ab, IEEE 802.3z,IEEE 802.3ad,IEEE 802.3x,IEEE 802.1p, IEEE 802.1q,IEEE 802.1d,IEEE 802.1s,IEEE 802.1w |
| Performance Specifications | <ul style="list-style-type: none"> ● Backplane bandwidth : 128Gbps ● Packet forwarding rate: 95.2Mpps ● MAC address table: 16K ● Port cache: 12Mb ● Forwarding Mode: Store and Forward |
| LED indicator | <ul style="list-style-type: none"> ● 32 1000M Link/Act indicators ● 24 10/100M网口 Link/Act indicators ● 1 Power indicator ● 1 SYS indicator |
| Power support | <ul style="list-style-type: none"> ● Input power: AC 100-240V/50-60Hz ● Dual power redundant input |
| Physical Specifications | <ul style="list-style-type: none"> ● Dimensions (LxWxH) : 440mm×320mm×44mm |
| Environmental Specifications | <ul style="list-style-type: none"> ● Working temperature: 0°C~40°C ● Storage temperature: -40°C~70°C ● Working humidity: 10%~90% RH non-condensing ● Storage humidity: 5%~90% RH non-condensing |
| Safety regulations | <ul style="list-style-type: none"> ● CE/ROHS/FCC |

| Software Specifications | |
|----------------------------------|--|
| Network protocol standard | <p>IEEE 802.3:Ethernet Media Access Control (MAC) Protocol</p> <p>IEEE 802.3i:10BASE-T Ethernet</p> <p>IEEE 802.3u:100BASE-TX Fast Ethernet</p> <p>IEEE 802.3ab:1000BASE-T Gigabit Ethernet</p> <p>IEEE 802.3z:1000BASE-X Gigabit Ethernet (optical)</p> <p>IEEE 802.3ad: Standard way to perform link aggregation</p> <p>IEEE 802.3x: flow control</p> <p>IEEE 802.1p: LAN Layer 2 QoS/Cos protocol for traffic prioritization (multicast filtering function)</p> <p>IEEE 802.1q:VLAN Bridge operation</p> <p>IEEE 802.1d:STP spanning tree</p> <p>IEEE 802.1s:MSTP spanning tree</p> <p>IEEE 802.1w:RSTP spanning tree</p> |
| Layer 3 interface | <p>Support Layer 3 interface</p> <p>Support IPv4, IPv6 address configuration</p> <p>Support ARP configuration</p> <p>Support ND configuration</p> |
| Layer 3 Routing | <p>Support IPv4 static routing</p> <p>Support IPv4 dynamic routing RIP v1/v2</p> <p>Support IPv4 dynamic routing OSPFv2</p> <p>Support IPv6 static routing</p> <p>Support IPv6 dynamic routing RIPng</p> <p>Support IPv6 dynamic routing OSPFv3</p> |

| Software Specifications | |
|---------------------------------|--|
| VLAN | Support 4K VLAN Support 802.1Q VLAN,MAC VLAN ,IP VLAN , Voice VLAN |
| DHCP | Support DHCP server Support DHCP relay Support DHCP Snooping |
| MAC address table | Follow IEEE 802.1d standard Support MAC address automatic learning and aging Support static, dynamic, filtering address table |
| Safety features | Password protection Support to restrict user access based on port number, IP address, MAC address Support HTTPS,SSL V3,TLS V1,SSH V1/V2 Support IP-MAC-PORT ternary binding Support ARP protection, IP source protection, DoS protection Support DHCP Snooping, DHCP attack protection Support 802.1X authentication, AAA Support port security and port isolation Support CPU protection function |
| Access control (ACL) | Support L2 (Layer 2) ~ L4 (Layer 4) packet filtering function Support port mirroring, flow rate limiting, QoS remarking |
| Quality of service (QoS) | Supports 8 port queues Support port priority, 802.1P priority, DSCP priority Support SP, WRR, SP+WRR, WFQ priority scheduling algorithm |
| Spanning tree | Support STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) protocols Support loop protection, root bridge protection, TC protection, BPDU protection, BPDU filtering Support optical port 50ms switching |

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Networking application

