

24-Port 10G L3 Managed Ethernet Switch S6700-24TF-2QF

Product Brochure

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Product Introduction:

The S6700-24TF-2QF adopts a new generation of high-performance hardware and software platforms to provide flexible and cost-effective full 10G access and 100G uplink ports, support Layer 3 routing protocols, complete security protection mechanisms, complete ACL/QoS policies and rich VLAN function, it is easy to manage and maintain, meets the user's networking requirements for easy management, high security and low cost of network equipment. It is suitable for campus, hotel and enterprise park network access, aggregation and core multiple applications.



Main Features:

Advanced hardware architecture design, powerful processing capability

• High-performance switching chips are used to meet the application requirements of various complex scenarios, greatly improve the network data processing rate, and prevent data transmission from being stuck.

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 ARP configuration, 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.

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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.

• Supports loop protection, root bridge protection, TC protection, BPDU protection, and BPDU filtering.

• Support 50ms switching of optical ports.

Flexible and convenient management and maintenance

- Supports various management methods such as Console, Telnet, and SSH.
- Support WEB network management (HTTP, HTTPS, SSL V3), which is simpler and more efficient, and is convenient for users to install and debug.
- Supports 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.

Specifications:

Hardware Specification:		
Network Interface	• 24*10G SFP+ ports	
	• 2*40/100G QSFP28 ports	
	 1*Console port,1*RJ45 management port 	
	• 1*USB2.0 interface	
Network Protocol	 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 	
	Bandwith: 880Gbps	
	 Packet forwarding rate: 540Mpps 	
Performance	MAC table size: 96K	
	Port buffer: 9Mb	
	 Forwarding type: storage forwarding 	
	 24*10G Link/Act indicator 	
LED Indicator	 2*40/100G Link/Act indicator 	
	 1*Power indicator 	
	 1*SYS indicator 	
	 Power input: AC 100-240V/50-60Hz 	
Power Supplier	 Redundant power, support hot-swap 	
	• 2+1 redundant fans	
Dimension	• WxDxH: 440mm×320mm×44mm	
	 Operating temperature: 0°C~40°C 	
Evironment	● Storage temperature: -40°C~70°C	
	 Operating humidity: 10%~ 90% RH non condensing 	
	 Storage humidity: 5% ~90% RH non condensing 	
Safty Regulations	• CE/ROHS/FCC	

Software Specifications:		
Protocol Standards	IEEE 802.3:Ethernet media access control (MAC)	
	IEEE 802.3i:10BASE-T Ethernet	
	IEEE 802.3u:100BASE-TX Fast Ethernet	
	IEEE 802.3ab:1000BASE-T Gigabit Ethernet	
	IEEE 802.3z:1000BASE-X Gigabit Ethernet (optical fiber)	
	IEEE 802.3ad:Standard method of link aggregation	
	IEEE 802.3x:Flow control	
	IEEE 802.1p:LAN layer 2 qos/cos protocol related to traffic priority (multicast filtering function)	
	IEEE 802.1q:VLAN Bridge operation	
	IEEE 802.1d:STP Spanning tree	
	IEEE 802.1s:MSTP Spanning tree	
	IEEE 802.1w:RSTP Spanning tree	
L3 Interface	Support L3 interface	
	Support IPV4,IPV6 addresses configuration	
	Support ARP configuration	
	Support ND configuration	
L3 Routing	Support IPV4 static routing	
	Support IPV4 RIP v1/v2	
	Support IPV4 OSPFv2	
	Support IPV6 static routing	
	Support IPV6 RIPng	
	Support IPV6 OSPFv3	

Software Spe	cifications:
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 Table	Support IEEE 802.1d standard
	Support MAC addresses automatic learning and aging
	Support static, dynamic and filtered address tables
	Password guard
	Support restricting user access based on port number, IP address and MAC address
	Support HTTPS,SSL V3,TLS V1,SSH V1/V2
Security	Support IP-MAC-PORT ternary binding
Features	Support ARP protection, IP source protection, DOS protection
	Support DHCP Snooping, DHCP Attack protection
	Support 802.1X certification,AAA
	Support Port security, port isolation
	Support CPU Protection function
ACL	Support L2(Layer 2) ~ L4(Layer 4) packet filtering function
	Support Port mirroring, flow speed restriction, QoS re marking
QoS	Support 8 port queues
	Support port priority, 802.1p priority, DSCP priority
	Support SP,WRR,SP+WRR,WFQ priority scheduling
STP	Support STP(IEEE 802.1d), RSTP(IEEE 802.1w) and MSTP(IEEE 802.1s) standard
	Support Loop protection, root bridge protection, TC protection, BPDU protection, BPDU filtering
	Support optical port 50ms switching

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Software Specifications:

•	alions.
Su	upport IGMP v1/v2/v3 Snooping
Su	upport MLD v1/v2 Snooping
Su Multicast	upport Fast leave mechanism and querier of layer 2 multicast
Su	upport Layer 2 IPv4 static multicast
Su	upport Layer 2 IPv6 static multicast
Su	upport IGMP v1/v2/v3 layer 3 multicast
	upport Multicast suppression
Storm Suppression	upport Broadcast suppression
	upport Unknown unicast suppression
Su	Ipport Static convergence
LACP Su	upport Dynamic convergence
	upport based on IP, MAC and mixed load balancing mode
Su	upport 32 aggregation groups at most
Su	upport IPv6 Ping,IPv6 Tracert,IPv6 Telnet
Su	upport IPv6 SSH,IPv6 SSL
Su	upport WEB management(HTTP,HTTPS,SSL V3)
Su	upport CLI (Telnet,SSH V1/V2,local serial port)
Su	upport SNMP V1/V2/V3
Su	upport RMON V1/V2
Su	Ipport LLDP device discovery
	upport NTP time synchronization
management _{Su}	upport DNS Client
Su	upport CPU Monitoring, memory monitoring
Su	upport System log, classification warning
Su	upport Ping, Tracert Detection, cable detection
	upport Apollo cloud platform one-stop management and aintenance

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Networking application

