

S6670-48XY8QC

L3 Managed Ethernet Switch

Product Overview

The S6670-48XY8QC is a high-performance, next-generation Layer 3 switch designed for enterprise, data center, and carrier-grade network environments. Built to meet the ever-growing demands for scalable and high-density connectivity, this switch combines 48 x 10/25G SFP28 ports with 8 x 40/100G OSFP28 uplink ports, providing a versatile and future-proof solution for modern networks. The S6670-48XY8QC is engineered to deliver superior speed, flexibility, and high availability, making it ideal for a wide range of applications, from data center core switches to aggregation layers in large-scale enterprise networks.

The switch is designed with both Layer 2 and Layer 3 capabilities, offering wire-speed forwarding on all ports to ensure optimal performance and low latency for high-bandwidth applications. Whether it is used for high-density data aggregation or as an access layer switch, the S6670-48XY8QC ensures seamless traffic flow, efficient routing, and enhanced network security. It also includes extensive support for advanced features like VLANs, ACLs, and Q-in-Q, which help organizations manage traffic effectively while safeguarding the integrity of their networks.

With dual-FRU redundant power supply support for both AC and DC configurations, the S6670-48XY8QC is designed for mission-critical environments that require maximum uptime and fault tolerance. The hot-swappable power supply ensures that any power-related failure will not disrupt the operation of the switch, providing high availability and operational reliability.

Moreover, the S6670-48XY8QC supports elastic stacking, allowing multiple units to be combined and managed as a single logical device, simplifying management and facilitating scalability. This feature enables users to expand their network infrastructure with ease while maintaining consistent performance and operational efficiency.

Whether deployed in data center core, enterprise campus networks, or service provider environments, the S6670-48XY8QC offers unmatched versatility and performance. It is the ideal solution for organizations looking to future-proof their network infrastructure, ensuring seamless support for growing traffic loads and evolving business requirements.



S6670-48XY8QC

- 48*1000/10G/25G Base-X SFP28, 8*40G/100G Base-X QSFP28,
- 1*Console RJ45, 2*100/1000 Base-T MGMT RJ45, 1*USB
- support Dual-FRU AC or DC redundant power supply
- 440x410x44mm

Key Features

Stackable

- Support Combine the processing power of multiple switches into a single logical device.
- Support When a switch in the stack system fails, traffic can be automatically switched to other switches, network availability and redundancy.
- Support Stacking simplifies the management process. Administrators only need to manage one logical device.

High-density 100G fiber access

- Provides high-density connectivity with 48 x 10G/25G SFP28 ports, ideal for access and aggregation layers in data centers, enterprise networks, and service provider environments.
- Supports flexible, high-speed connections for a wide range of networking applications, including high-performance computing, cloud services, and virtualized environments.

Dual-FRU Redundant Power Supply

- Features dual FRU (Field Replaceable Unit) power supplies with hot-swappable capabilities for both AC and DC power inputs, ensuring high availability.
- Redundant power supply configuration guarantees continuous operation in critical environments, minimizing downtime and service disruptions.

Equipment Stability

- Support IPv4/IPv6 dual protocol stack platform based on Linux operating system
- Support multiple link redundancy and network redundancy protocols such as STP / RSTP / MSTP / ERPS / LACP
- Support VRRP/ERRP/ERPS/MSTP/Smartlink etc. Various link redundancy and network redundancy protocol
- Support 802.3ad LACP

QoS Capabilities

- Support port speed and flow speed limit function
- Support classification based on service flow and Qos flow control function
- Support queue scheduling algorithms such as SP/WRR/SP+WRR
- Support port-based and service flow-based mirroring functions

Multi-service Capabilities

- Support DHCP Server and DHCP Relay
- Support L2-Tunnel
- Support Ethernet OAM protocol

Routing Protocol

- Support static route
- Support dynamic route such as RIP / OSPF / BGP / ISIS

Safety Mechanism

- Support ACL security filtering mechanism, which can provide security control based on MAC, IP, L4 port
- Support ARP attach automatic protection and user blocking functions
- Support DHCP attack automatic protection
- Support DHCP-snooping / IP-source-Guard / 802.1X and other security features
- Support link protection functions such as BFD, FlexLink, LACP and ERRP
- Support remote loop detection function
- Support Ethernet link detection mechanisms
- Support remote user authentication based on Tacacs+, Radius, and Local user authentication

Network Management Function

- Support CLI based on RS232 serial port, Telnet and SSHv2
- Support WEB-based configure operation management, support SNMP V1/V2/V3
- Support remote upgrade or equipment through FTP and TFTP

Hardware Specification

Attributes	S6670-48XY8QC
Port	48*1000/10G/25G Base-X SFP28, 8*40G/100GBase-X QSFP28 1*Console RJ45, 2*100/1000 Base-T MGMT RJ45, 1*USB support Dual-FRU AC or DC redundant power supply
Exchange Capacity	4Tbps
Packet Forwarding Rate	2800Mpps
VLAN	4K
DRAM & Flash	DRAM:4GB; Flash:8GB
MAC Address	128K
Packet Buffer	192Mbit
Power	AC： 100～240V 47/63Hz; DC: -40V ～-60V
Power Consumption	≤500W
Weight	10Kg
Dimensions (W * D * H)	440*410*44mm
Environment	Working Temperature：-10℃～50℃ Storge Temperature：-40℃～70℃ Relative Humidity :5%~95%, non-condensing

Software Specification

Attributes	S6670-48XY8QC
VLAN	Support 4K VLANs Support 1:1 and N:1 VLAN switching Support basic and flexible QinQ
MAC	Support 128K MAC address table Support Control the number of MAC addresses on a port Support Port MAC address filtering is supported Supports blackhole MAC
Stackable	Support Sacking of 08 units through a single ip address. Support Unified management. Support Redundancy mechanism. Support High speed interconnect.
Spanning Tree	Support the STP/RSTP/MSTP Support BPDU protection, root protection, and loopback protection
Port	Support bidirectional bandwidth control Support static and dynamic LACP aggregation Support multi-port mirroring Support port storm suppression Support 9K Jumbo ultra-long frame forwarding
User Security	Support anti-ARP-spoofing spoofing prevention Support automatic suppression of anti-arp-flooding flooding attacks Support IP Source Guard to automatically create IP, MAC, port, and VLAN binding tables Support DOS and ICMP attack defense Support Port Isolation Hardware isolates packets between ports Support MAC address binding to ports and port MAC address filtering are supported Support IEEE 802.1X and AAA/Radius/TACACS+ user authentication
Device Safety	Support SSHv2 Secure Shell is supported Support SNMP V3 encryption management Support the Telnet login and password mechanism of the Security IP address
Network Security	Support ARP traffic detection based on each user's MAC address Support ARP packet suppression or user blocking based on ARP traffic detection Support port broadcast/multicast packet suppression and automatic shutdown of dangerous ports Support The DHCP Option82 and PPPoE+ tag can be used to upload user physical location information

ACL	Support standard and extended ACL Support ACL policy based on time period Support Provide flow classification and flow definition based on IP header information such as source/destination MAC address, VLAN, 802.1p, ToS, DSCP, source/destination IP address, L4 port number, protocol type, etc.
QoS	Support flow rate limiting function based on custom business flow Supports mirroring and redirection functions based on custom business flows Support priority marking based on custom service flow, support 802.1P, DSCP priority Remark capability Supports port-based traffic policing and the two-speed, three-color CAR function Support port-based priority scheduling function, queue scheduling algorithms such as SP/WRR/SP+WRR
Multicast	Support Layer 2 multicast entry 8K Support IGMPv1 / v2 / v3 Snooping Support PIM-SM, PIM-DM, and PIM-SSM Support IGMP Proxy Support controlled multicast
ARP	Support ARP capacity 32k Support Aging ARP entries Support the ARP Proxy Support IP address conflict identification between connected users
IPV4	Support 512 Layer 3 interfaces Support IPv4 route entry 64K Support Layer 3 multicast entry 8K Supports the Ping, Traceroute, VRRP, OSPF, RIP, PIM, BGP, ISIS, and BFD protocols
IPV6	Support IPv6 route entry 16K Support ICMPv6 Support the neighbor discover Supports RIPing, BGP+, and OSPFv3
Loop Protection	Support ERPS Ethernet ring network protocol (loop healing time <50ms) Support loopback-detection Loopback detection on ports
Link Protection	Support FlexLink link backup (link healing time <200ms) Supports RSTP/MSTP link healing hardware acceleration (loop healing time <1s) Support LACP dynamic link aggregation (link healing time <200ms)
Equipment Protection	Support VRRP host backup
Network Maintenance	Support the LLDP neighbor device discovery protocol Support RFC3176 Flow traffic analysis to monitor and collect statistics on traffic based on protocols or addresses

	Support Ping and Traceroute
Equipment Management	Support CLI, Console port, Telnet, SSH, and WEB configuration management Support SNMP V1, V2c, and V3 management Support SNTP

Purchase Info

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