



Focuscom



S5863-24H2QC

L3 Managed Ethernet Switch

Product Overview

The S5863-24H2QC switch is a high-performance Layer 3 switch that supports multi-rate access at 1G/2.5G/5G/10G and offers 40G and 100G uplink core routing. This switch is designed to meet the high-density and high-bandwidth requirements of next-generation enterprise networks, data centers, and metropolitan area networks. It is also suitable for telecom network operators, as well as the aggregation or access layers in campus Ethernet networks, and can serve as a connection layer in data centers or as the core layer for small and medium-sized enterprises, providing extensive server access solutions.

The S5863-24H2QC offers a comprehensive set of service features, including Layer 2, Layer 3, VXLAN, OAM/APS, and others, along with robust security and flow control features, hardware-based NetFlow, and high-precision clock capabilities. The switch supports elastic stacking, allowing multiple devices to be virtualized into a single logical entity. This feature facilitates port expansion and switching capacity increases while enabling unified management, upgrades, and maintenance of multiple devices.

Designed to handle large data traffic and ensure non-blocking transmission in data centers, the S5863-24H2QC provides significant cache capacity and supports an advanced cache scheduling mechanism to optimize the use of this capacity. It is versatile enough for use in network operator environments, campus Ethernet aggregation or access layers, data center access layers, and as a core layer in small and medium-sized enterprises, offering rich server access solutions for data centers.

Device Brief Information

	S5863-24H2QC • 24 * 1G/2.5G/5G/10G Base-T • 2*40G/100G QSFP28 • 1* power module supply • 4* modular Fans • Size: 440X320X44mm 19" Rack-mount • AC: 100 ~ 240V; 47/63Hz
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Key Features

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

Carrier-level equipment stability

- Based on Linux operating system, support IPv4/IPv6 dual protocol stack platform
- Support multiple link redundancy and network redundancy protocols such as STP/RSTP/MSTP/ERPS/LACP

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.

Perfect safety mechanism

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

Powerful 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

Enhanced multi-service capabilities

- Support DHCP Server and DHCP Relay

Rich routing protocol

- Support static route
- Support dynamic route such as RIP, OSPF, BGP,
- Support IPV4/IPV6 dual protocol stack, support RIPng、OSPFv3

Simple and easy-to-use 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 Specifications

Attributes	S5863-24H2QC
Port	24*1G/2.5G/5G/10G Base-T; 2 * 40G/100G QSFP28
Exchange Capacity	880Gbps
Packet Forwarding Rate	654Mpps
Memory and Storage	Memory: 1GB; Storage: 8GB
MAC Address	32K
Packet Buffer	72Mbit
Power	AC: 100 ~ 240V; 47/63Hz
Power Consumption	Idle ≤33W Full load ≤60W
Weight	≤4.4kg

Dimensions (W*H* D)	440X320X44 (mm*mm*mm)
Environment	Working Temperature: -10℃ ~ 50℃ Storage Temperature: -40℃ ~ 70℃ Relative Humidity: 5%~95%, non-condensing

Panel view



- ① 24*1G/2.5G/5G/10G Base-T ② 2 * 40G QSFP/100G QSFP28
- ③ Console port ④ MGMT port ⑤ USB port
- ⑥ 4*FAN ⑦ Power Interface ⑧ GND

LED indicator

LEDs/Buttons	Color	Function	Description	
PWR	Green	Power status	ON	The AC/DC power module is normal (right)
			OFF	The AC/DC power module faulty or unavailable
ALARM	Red	Port status	ON	Critical alarms are reported for the card.
			OFF	No critical alarm is reported for the card.
SYS	Green	System running status	Green OFF	The device is not running or power off.
			Green Flash	The device is running normally.
MGMT	Green	Port status	ON	The link is properly connected (link up) and in action
			OFF	The link is interrupted (link down).
STK	Green	Port status	ON	Enable Stack
			OFF	Disable Stack
USB	Green	Power status	ON	Insert flash (Fat32)

LEDs/Buttons	Color	Function	Description	
			OFF	NO Insert flash (Fat32)
1G/2.5G/5G/10G	Green/ Orange	port status	Green ON	The link is properly connected (link up) 10G and action
			Orange ON	The link is properly connected (link up) 1G/2.5G and action
			OFF	The link is interrupted (link down).
40G/100G QSFP28	Green	Port status	ON	The link is properly connected (link up) and action
			OFF	The link is interrupted (link down).

Power Supply and FAN

The power ports are installed on the rear panel of the device. Only one power port is supported. The power ports and fans are fixed in structure. Hot swap is not supported.



Characteristic	S5863-24H2QC
Nominal AC/DC power supply	AC: 100 ~ 240V; 47/63Hz
AC Rated power of power supply	100W

Characteristic	S5863-24H2QC
FAN	4*8000 RPM adjustable fan

Software Specifications

Attributes	S5863-24H2QC
VLAN	Support 4K VLAN Support VLAN based on port, MAC and protocol Support dual Tag VLAN, Access/Trunk/Hybrid
Ethernet	Ethernet interface operating modes Ethernet interface operating rates Jumbo Frame Port enable/disable Port based storm-control Unknow-unicast/unknow-multicast/broadcast storm-control Port-isolate
Stackable	Support Sacking of 8 units through a single ip address. Support Unified management. Support Redundancy mechanism. Support High speed interconnect.
VXLAN	Support VXLAN uses MAC in UDP encapsulation Support VMS can move between different Layer 2 network domains. Support VNI is used to isolate different virtual networks to ensure that network traffic

	of different tenants is isolated . Support Enable virtual machine packets to communicate across different subnets and data centers;
MAC	Support static MAC address setting Support black hole MAC address filtering Support port MAC address limit Automatic learning and aging of MAC addresses
ARP	Static and dynamic ARP entries Aging of ARP entries ARP-Proxy
Port Control	Support two-way bandwidth control Support port storm suppression Support 9K Jumbo ultra-long frame forwarding
Port Aggregation	Support static link aggregation Support dynamic LACP Each aggregation group supports a maximum of 8 ports LAG load balance (SIP/DIP/SMAC/DMAC)
Mirroring	Supports multi-port mirroring analysis Service flow-based image analysis
ACL	Support standard and extended ACL Support ACL policy based on time period Provide MAC, IP, L4 port and port level security control functions
QoS	Traffic classification based on COS/DSCP (simple classification) Traffic classification based on ACL (complex classification) Traffic classification based on inner header of the tunnel packets Queue scheduling Remark the priority fields (COS/DSCP) of the packet based on ACL Flow redirection Flow mirror Traffic policing based on direction(in/out) of Port Traffic policing based on direction(in/out) of VLAN Traffic policing based on direction(in/out) of flow Traffic policing based on direction(in/out) of aggregated flow SP (Strict Priority) scheduling WRR (Weighted Round Robin) scheduling SP + WRR mixed scheduling
Safety	Support user hierarchical management and password protection Support IEEE 802.1X authentication Support Radius & TACACS+ authentication Support MAC address learning limit, support black hole MAC function Support port isolation Support broadcast message rate suppression Support IP Source Guard Support ARP flood suppression and ARP spoofing protection
Layer 3	Support ARP learning and aging Support IPv4/IPv6 static route Support dynamic route RIP/OSPF/BGP

	Support IPv4/IPv6 dual-stack platform Support VRRP、CLI、Telnet、WEB、SNMP V1/V2/V3、SSHv2 mode
Terminal Services	Configurations through CLI Console Terminal service
Maintenance	Per-module Debug features CPU usage display and alarm Memory usage display and alarm Device temperature、PSU、FAN、status display and alarm User operation logs Management of logs, alarms, and debugging information Detailed Diagnostic-information collection Manual /Schedule reboot Reboot Information logging Ping IPv6 Ping Traceroute Port/Flow/Remote mirror To CPU/From CPU packets statistics Time configuration Timezone
System Security	SSHv1/v2 RADIUS TACACS+ Authentication Accounting Port based dot1x MAC based dot1x MAC/IP ACL Port/VLAN/L4-Port ACL IP Source Guard Limitation on MAC address learning on interface Rate limit CPU Traffic Limit CLI/WEB/SNMP/Telnet/SSH filtering
Spanning-Tree	Rapid Spanning-Tree Protocol Multi-instance Spanning-Tree Protocol
Network Management	DHCP Server DHCP Relay DHCP Snooping DHCP Option60 DHCP Option82 DHCP Option66 DHCP Option120 SNTP Simple Network Time Protocol) LLDP
Configuration Management	Inband management interface and configuration Outband management interface and configuration Privileged user priority and privileged commands Network management based on SNMPv1/v2c/v3 Public and private MIB

	Public and private Trap Configuration and management based on WEB Restore factory default configuration
File system	Upload and download files through FTP or TFTP Upload and download files through Xmodem
System Management	Support FTP, TFTP file upload and download Support SNTP Support LLDP neighbor device discovery protocol Support RFC1213 SNMP network management Support Ping and Traceroute Supports configuration management based on WEB pages
Upgrade	Upgrade with the local image file Upgrade with the remote TFTP server Online upgrade Uboot

Connector Specifications

The switch provides standardized interfaces, thus facilitating rapid and trouble-free integration into the existing network infrastructures.

Network Interfaces

The switch optical interface ports for SFP/SFP+ modules and below table is available SFP/SFP+ module list.

Index	SFP/SFP+ Module Description
1	- Wavelength: 850 nm / Distance: 550 m / Mode: multi-mode - Connector: LC / Data rate: 1.25Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C - 70 °C
2	- Wavelength: 1310nm / Distance: 5km / Mode: single-mode - Connector: LC / Data rate: 1.25Gbit/s / Core type: Dual Core - Operating Temperature : 0 °C – 70 °C
3	- Wavelength: 1310 nm / Distance: 10 km / Mode: single-mode - Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C – 70 °C
4	- Wavelength: 1310 nm / Distance: 15 km / Mode: single-mode - Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C – 70 °C
5	- Wavelength: 1310 nm / Distance: 20 km / Mode: single-mode - Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C - 70 °C
6	- Wavelength: 1310 nm / Distance: 40 km / Mode: single-mode - Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C - 70 °C
7	- Wavelength: 850nm / Distance: 300m / Mode: Multimode - Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core - Operating Temperature : 0°C ~ 70 °C - 10GBASE-SR (10G)
8	- Wavelength: 850nm / Distance: 300m / Mode: Multimode - Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core - Operating Temperature : 0°C ~ 70 °C - 1000BASE-SX (1G), 10GBASE-SR (10G)

9	- Wavelength: 1310nm / Distance: 10Km / Mode: Single mode - Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core - Operating Temperature : 0°C ~ 70 °C - 10GBASE-LR (10G)
10	- Wavelength: 1550nm / Distance: 40Km / Mode: Single mode - Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core - Operating Temperature : 0°C ~ 70 °C - 10GBASE-ER (10G)
11	- Wavelength: 1310nm / Distance: 70Km / Mode: Single mode - Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core - Operating Temperature : 0°C ~ 70 °C - 10GBASE-ZR (10G)
12	- Wavelength: 850nm / Distance: 100m / Mode: MMF - Connector: MMF Data rate: 100 Gbit/s / Core type: Dual Core - Operating Temperature : 0°C ~ 70 °C 100GBASE-SR4

Purchase Info

Product Name	Product Description
S5863-24H2QC	24*1G/2.5G/5G/10G Base-T; 2 * 40G QSFP/100G QSFP28



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