Overview

The Huawei CloudEngine S5732-H series switches are the next-generation enhanced all-optical Ethernet switches developed by Huawei. The CloudEngine S5732-H builds on Huawei's unified Versatile Routing Platform (VRP) and boasts various IDN features.

Quick Specification

Table 1 shows the quick specification.

Model	S5732-H48S6Q
Part Number	02353AJU 02353AJU-001 02353AJU-003 02353AJU-004
Fixed port	44 x GE SFP ports, 4 x 10GE SFP+ ports, 6 x 40GE QSFP+ ports
Dimensions (W x D x H)	442 mm x 420 mm x 43.6 mm
Chassis height	1 U
Power supply type	• 600 W AC (pluggable)x • 1000 W DC (pluggable)
Maximum voltage range	• AC input (600 W AC): 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-voltage DC input (600 W AC): 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) • DC input (1000 W DC): -36 V DC to -72V DC
Maximum power consumption	255 W
Noise	• Under normal temperature (sound power): 65dB (A) • Under high temperature (sound power): 88dB (A) • Under normal temperature (sound pressure): 52dB (A)

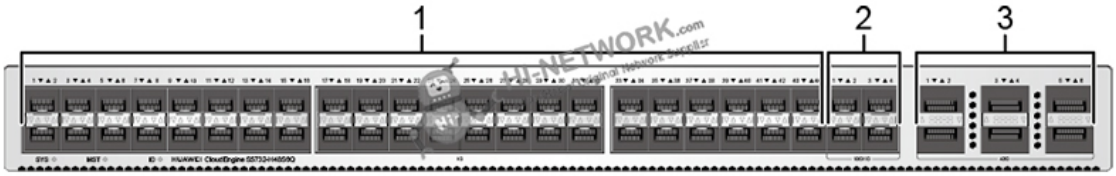
Figure 1 shows the appearance of S5732-H48S6Q.

Product Details

The S5732-H series switches provides these features and highlights:

* Enabling Networks to Be More Agile for Services
* Delivering Abundant Services More Agilely
* Providing Fine Granular Network Management More Agilely
* Comprehensive VPN Technologies
* Flexible Ethernet Networking
* Various Security Control Methods
* Mature IPv6 Features
* Intelligent Stack (iStack)
* VXLAN Features
* Big Data Security Collaboration
* Intelligent O&M
* Intelligent Upgrade
* Open Programmability System (OPS)

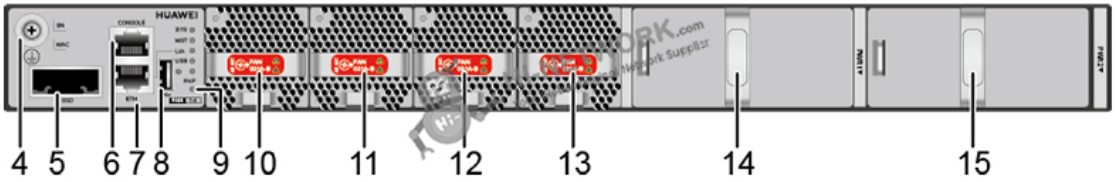
Figure 2 shows the front panel of S5732-H48S6Q.



Note:

(1)	Forty-four 1000BASE-X ports	(3)	Six 40GE/100GE QSFP+ optical ports
(2)	Four 10GE SFP+ ports		

Figure 3 shows the back panel of S5732-H48S6Q.



Note:

(4)	Ground screw	(10)	Fan module slot 1
(5)	SSD card slot	(11)	Fan module slot 2
(6)	One console port	(12)	Fan module slot 3
(7)	One ETH management port	(13)	Fan module slot 4

(8)	One USB port	(14)	Power module slot 1
(9)	One PNP button	(15)	Power module slot 2

The Modules

Table 2 shows the recommended products.

Model	Description
PAC600S12-CB	600W AC Power Module (Back to Front, Power panel side exhaust)
eSFP-GE-SX-MM850	Optical Transceiver, eSFP, GE, Multi-mode Module (850nm, 0.55km, LC)
S-SFP-GE-LH40-SM1550	Optical Transceiver, eSFP, GE, Single-mode Module (1550nm, 40km, LC)
SFP-GE-LX-SM1310	Optical Transceiver, eSFP, GE, Single-mode Module (1310nm, 10km, LC)
S-SFP-GE-LH40-SM1310	Optical Transceiver, eSFP, GE, Single-mode Module (1310nm, 40km, LC)
S-SFP-GE-LH80-SM1550	Optical Transceiver, eSFP, GE, Single-mode Module (1550nm, 80km, LC)
SFP-GE-ZBXU1	Optical Transceiver, eSFP, GE, BiDi Single-mode Module (1490nm (Tx)/1570nm (Rx), 80km, LC)
SFP-GE-LX-SM1490-BIDI	Optical Transceiver, eSFP, GE, BIDI Single-mode Module (TX1490/RX1310, 10km, LC)
eSFP-GE-ZX100-SM1550	Optical Transceiver, eSFP, GE, Single-mode Module (1550nm, 100km, LC)
SFP-GE-ZBXD1	Optical Transceiver, eSFP, GE, BIDI Single-mode Module (1570nm (Tx)/1490nm (Rx), 80km, LC)
LE2MGSC40DE0	Optical Transceiver, eSFP, GE, BIDI Single-mode Module (TX1310/RX1490, 40km, LC)
LE2MGSC40ED0	Optical Transceiver, eSFP, GE, BIDI Single-mode Module (TX1490/RX1310, 40km, LC)
SFP-GE-LX-SM1310-BIDI	Optical Transceiver, eSFP, GE, BIDI Single-mode Module (TX1310/RX1490, 10km, LC)
SFP-GE-BXU1-SC	1000Base, BIDI Optical Transceiver, SFP, GE, Single-mode Module (TX1490nm/RX1310nm, 10km, SC)

Compare to Similar Items

Table 3 shows the comparison.

Model	S5732-H24S6Q	S5732-H48S6Q
Fixed port	20 x GE SFP ports, 4 x 10GE SFP+ ports, 6 x 40GE QSFP+ ports	44 x GE SFP ports, 4 x 10GE SFP+ ports, 6 x 40GE QSFP+ ports
Dimensions (W x D x H)	442 mm x 420 mm x 43.6 mm	442 mm x 420 mm x 43.6 mm
Chassis height	1 U	1 U
Chassis weight (including packaging)	8.9 kg	9.2 kg
Power supply type	• 600 W AC (pluggable) • 1000 W DC (pluggable)	• 600 W AC (pluggable) • 1000 W DC (pluggable)
Maximum power consumption	229 W	255 W

Surge protection specification (power port)	• AC power port: ±6 kV in differential mode, ±6 kV in common mode • DC power port: ±2 kV in differential mode, ±4 kV in common mode	• AC power port: ±6 kV in differential mode, ±6 kV in common mode • DC power port: ±2 kV in differential mode, ±4 kV in common mode

Get More Information

Do you have any question about the S5732-H48S6Q (02353AJU/02353AJU-001/02353AJU-003/02353AJU-004)?

Contact us now via info@hi-network.com.

Specification

S5732-H48S6Q Specification	
Technical specifications	
Fixed port	44 x GE SFP ports, 4 x 10GE SFP+ ports, 6 x 40GE QSFP+ ports
Dimensions (W x D x H)	442 mm x 420 mm x 43.6 mm
Chassis height	1 U
Chassis weight (including packaging)	9.2 kg
Power supply type	• 600 W AC (pluggable) • 1000 W DC (pluggable)
Maximum voltage range	• AC input (600 W AC): 90 V AC to 290 V AC, 45 Hz to 65 Hz • High-voltage DC input (600 W AC): 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) • DC input (1000 W DC): -36 V DC to -72V DC
Maximum power consumption	255 W
Noise	• Under normal temperature (sound power): 65dB (A) • Under high temperature (sound power): 88dB (A) • Under normal temperature (sound pressure): 52dB (A)
Operating temperature	• 0-1800 m altitude: -5°C to +45°C • 1800-5000 m altitude: The operating temperature reduces by 1ºC every time the altitude increases by 220 m.
Storage temperature	-40°C to +70°C
Relative humidity	5% to 95% (non-condensing)
Surge protection specification (power port)	• AC power port: ±6 kV in differential mode, ±6 kV in common mode • DC power port: ±2 kV in differential mode, ±4 kV in common mode
Heat dissipation	Air cooling heat dissipation, intelligent speed adjustment, and pluggable fans
Service Features	
MAC address table	IEEE 802.1d standards compliance 128K MAC address entries MAC address learning and aging Static, dynamic, and blackhole MAC address entries

	Packet filtering based on source MAC addresses
VLAN	4094 VLANs Guest VLAN and voice VLAN GVRP MUX VLAN VLAN assignment based on MAC addresses, protocols, IP subnets, policies, and ports VLAN mapping
Wireless service	AP access control, AP domain management, and AP configuration template management Radio management, unified static configuration, and dynamic centralized management WLAN basic services, QoS, security, and user management CAPWAP, tag/terminal location, and spectrum analysis
Ethernet loop protection	RRPP ring topology and RRPP multi-instance Smart Link tree topology and Smart Link multi-instance, providing millisecond-level protection switching SEP ERPS (G.8032) BFD for OSPF, BFD for IS-IS, BFD for VRRP, and BFD for PIM STP (IEEE 802.1d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s) BPDU protection, root protection, and loop protection
MPLS	MPLS L3VPN MPLS L2VPN (VPWS/VPLS) MPLS-TE MPLS QoS
IP routing	Static routes, RIP v1/2, RIPng, OSPF, OSPFv3, IS-IS, IS-ISv6, BGP, BGP4+, ECMP, routing policy Up to 192K FIBv4 entries Up to 80K FIBv6 entries
Interoperability	VLAN-Based Spanning Tree (VBST), working with PVST, PVST+, and RPVST Link-type Negotiation Protocol (LNP), similar to DTP VLAN Central Management Protocol (VCMP), similar to VTP
IPv6 features	Up to 80K ND entries PMTU IPv6 Ping, IPv6 Tracert, and IPv6 Telnet ACLs based on source IPv6 addresses, destination IPv6 addresses, Layer 4 ports, or protocol types Multicast Listener Discovery snooping (MLDv1/v2) IPv6 addresses configured for sub-interfaces, VRRP6, DHCPv6, and L3VPN
Multicast	IGMP v1/v2/v3 snooping and IGMP fast leave Multicast forwarding in a VLAN and multicast replication between VLANs Multicast load balancing among member ports of a trunk Controllable multicast Port-based multicast traffic statistics IGMP v1/v2/v3, PIM-SM, PIM-DM, and PIM-SSM MSDP MVPN
QoS/ACL	Rate limiting in the inbound and outbound directions of a port Packet redirection Port-based traffic policing and two-rate three-color CAR Eight queues per port

	DRR, SP and DRR+SP queue scheduling algorithms WRED Re-marking of the 802.1p and DSCP fields of packets Packet filtering at Layer 2 to Layer 4, filtering out invalid frames based on the source MAC address, destination MAC address, source IP address, destination IP address, TCP/UDP port number, protocol type, and VLAN ID Queue-based rate limiting and shaping on ports
Security	Hierarchical user management and password protection DoS attack defense, ARP attack defense, and ICMP attack defense Binding of the IP address, MAC address, port number, and VLAN ID Port isolation, port security, and sticky MAC MAC Forced Forwarding (MFF) Blackhole MAC address entries Limit on the number of learned MAC addresses IEEE 802.1x authentication and limit on the number of users on a port AAA authentication, RADIUS authentication, and HWTACACS authentication NAC SSH V2.0 HTTPS CPU protection Blacklist and whitelist Attack source tracing and punishment for IPv6 packets such as ND, DHCPv6, and MLD packets Secure Boot IPSec ECA Deception
Reliability	LACP E-trunk Ethernet OAM (IEEE 802.3ah and IEEE 802.1ag) ITU-Y.1731 DLDP LLDP BFD for BGP, BFD for IS-IS, BFD for OSPF, BFD for static route
VXLAN*	VXLAN L2 and L3 gateways Centralized and distributed gateway BGP-EVPN Configured through the NETCONF protocol
Super Virtual Fabric (SVF)	Working as an SVF Parent to vertically virtualize downlink switches and APs as one device for management. A two-layer client architecture is supported. IGMP snooping can be enabled on access switches (ASs) and the maximum number of access users on a port can be configured. ASs can be independently configured. Services that are not supported by templates can be configured on the parent. Third-party devices are allowed between SVF parent and clients.
iPCA	Directly coloring service packets to collect real-time statistics on the number of lost packets and packet loss ratio

	Collection of statistics on the number of lost packets and packet loss ratio at network and device levels
TWAMP	Two-way IP link performance measurement Measurement on two-way packet delay, one-way packet loss rate, and one-way packet jitter
Management and maintenance	iStack, with up to 9 member switches in a stack SNMP v1/v2c/v3 RMON Smart Application Control (SAC) Web-based NMS System logs and alarms of different levels GVRP MUX VLAN NetStream Intelligent O&M
*CloudEngine S5732-H series switches require the VXLAN license or N1 advanced software package to support the VXLAN feature.	

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