# Huawei CloudEngine S5755-H Series High-Quality 2.5GE Optical Switches Datasheet

CloudEngine S5755-H series High-Quality 2.5GE Optical switches are brand-new access switches that provide 24/48 optical ports, and provide four 1/10/25GE and two 40/100GE uplink ports and one extended slot.

## Introduction

CloudEngine S5755-H series High-Quality 2.5GE Optical Switches are brand-new GE switches developed by Huawei for the Wi-Fi 6/Wi-Fi 7. The CloudEngine S5755-H builds on Huawei's unified Platform and boasts various IDN features. For example, the VXLAN functionality implements network virtualization. With these merits, the CloudEngine S5755-H can function as core switches for small-sized campus networks and branches of medium- and large-sized campus networks, and also work as access switches for Metropolitan Area Network.

## Product Overview

### Models and Appearances

The following models are available in the CloudEngine S5755-H series.

| Models and Appearances | Description |
| --- | --- |
| CloudEngine S5755-H24J8T4Y2CZ  | • 24*FE/GE/2.5GE SFP, 8*10/100/1000BASE-Tports, 4*1GE/2.5GE/10GE/25GE SFP28, 2*40GE/100GE QSFP28，support hardware trust module (HTM)<br>One extended slot<br>• 1+1 power backup<br>• Forwarding performance: 450 Mpps<br>• Switching capacity*: 936 Gbps/2.4 Tbps |
| CloudEngine S5755-H48J4Y2CZ  | • 48 x FE/GE/2.5GE SFP, 4 x 1GE/2.5G/10GE/25GE SFP28, 2 x 40/100GE QSFP28 ports，support hardware trust module (HTM)<br>• One extended slot<br>• 1+1 power backup<br>• Forwarding performance: 450 Mpps<br>• Switching capacity*: 1.04 Tbps/2.4 Tbps |

Note：*The value before the slash (/) refers to the device's switching capability, while the value after the slash (/) means the system's switching capability.

### Subcards

The following table lists the subcards applicable to the CloudEngine S5755-H.

Technical specifications of the subcards applicable to the CloudEngine S5755-H series

| Subcards | Technical Specifications | Applied Switch Model |
|---|---|---|
| <br>HSIC-X08S000 | • 8*10GE SFP+ or 4*25GE SFP28 (only ports 1 to 4 support 25GE)<br>• Dimensions without packaging (H x W x D) [mm(in.)]: 39.1 mm x 100.1 mm x 220 mm (1.54 in. x 3.94 in. x 8.66 in.)<br>• Weight without packaging [kg(lb)]: 0.44 kg (0.97 lb)<br>• Maximum power consumption [W]: 38.5 W<br>• Maximum heat dissipation [BTU/hour]: 131.37 BTU/hour | • CloudEngine S5755-H24J8T4Y2CZ<br>• CloudEngine S5755-H48J4Y2CZ |
| <br>HSIC-Y08S000 | • 8*25GE SFP28<br>• Dimensions without packaging (H x W x D) [mm(in.)]: 39.1 mm x 100.1 mm x 220 mm (1.54 in. x 3.94 in. x 8.66 in.)<br>• Weight without packaging [kg(lb)]: 0.44 kg (0.97 lb)<br>• Maximum power consumption [W]: 38.5 W<br>• Maximum heat dissipation [BTU/hour]: 131.37 BTU/hour | • CloudEngine S5755-H24J8T4Y2CZ<br>• CloudEngine S5755-H48J4Y2CZ |
| <br>HSIC-Q04S000 | • 4*40GE QSFP ports or 2*100GE QSFP28 ports (only ports 1/3 support 100GE）<br>• Dimensions without packaging (H x W x D) [mm(in.)]: 39.1 mm x 100.1 mm x 220 mm (1.54 in. x 3.94 in. x 8.66 in.)<br>• Weight without packaging [kg(lb)]: 0.44 kg (0.97 lb)<br>• Maximum power consumption [W]: 40 W<br>• Maximum heat dissipation [BTU/hour]: 136.48 BTU/hour | • CloudEngine S5755-H24J8T4Y2CZ<br>• CloudEngine S5755-H48J4Y2CZ |

*Note: When the HSIC-Q04S000 is used on S5755-H series switches, it supports the 4 × 40GE and 2 × 100GE modes, but does not support stacking.*

## Fan Models

The following table lists the fan module applicable to the CloudEngine S5755-H.

Technical specifications of the fan module applicable to the CloudEngine S5755-H series

| Fan Module | Technical Specifications | Applied Switch Model |
|---|---|---|
| <br>FAN-031A-B | • Dimensions (W x D x H): 40 mm x 100.3 mm x 40 mm<br>• Number of fans: 1<br>• Weight: 0.1 kg (0.22 lb)<br>• Maximum power consumption: 21.6 W<br>• Maximum fan speed: 24500±10% revolutions per minute (RPM)<br>• Maximum wind rate: 31 cubic feet per minute (CFM)<br>• Hot swap: Supported | • CloudEngine S5755-H24J8T4Y2CZ<br>• CloudEngine S5755-H48J4Y2CZ |

## Power Supply

The following table lists the power supplies applicable to the CloudEngine S5755-H.

Technical specifications of the power supplies applicable to the CloudEngine S5755-H series

| Power Module | Technical Specifications | Applied Switch Model |
| --- | --- | --- |
| <br>PAC180S12-CN | • Dimensions (H x W x D): 39.6 mm x 66 mm x 215 mm (1.56 in. x 2.6 in. x 8.46 in.)<br>• Weight without packaging [kg(lb)]: 0.67 kg (1.48 lb)<br>• Rated input voltage [V]:<br>– 100 V AC to 240 V AC, 50/60 Hz<br>– 240 V DC<br>• Input voltage range [V]:<br>– 90 V AC to 290 V AC, 45 Hz to 66 Hz<br>– 190 V DC to 290 V DC<br>• Maximum input current [A]: 3 A<br>• Rated output current [A]: 15 A<br>• Rated output voltage [V]: 12 V<br>• Rated output power [W]: 180 W<br>• Hot swap: Supported | • CloudEngine S5755-H24J8T4Y2CZ<br>• CloudEngine S5755-H48J4Y2CZ |
| <br>PDC240S12-CN | • Dimensions (H x W x D): 39.6 mm x 66 mm x 215 mm (1.56 in. x 2.6 in. x 8.46 in.)<br>• Weight without packaging [kg(lb)]: 0.61 kg (1.34 lb)<br>• Rated input voltage [V]:<br>– +48 V DC<br>– -48 V DC to -60 V DC<br>• Input voltage range [V]:<br>– +40 V DC to +57 V DC<br>– -38.4 V DC to -72 V DC<br>• Maximum input current [A]: 8A<br>• Rated output voltage [V]: 12 V<br>• Rated output current [A]:<br>– –25°C to +55°C (–13°F to +131°F): 20 A<br>– 55°C to 65°C (131°F to 149°F): 15 A<br>• Rated output power [W]:<br>– –25°C to +55°C (–13°F to +131°F): 240 W<br>– 55°C to 65°C (131°F to 149°F): 180 W<br>• Hot swap: Supported | • CloudEngine S5755-H24J8T4Y2CZ<br>• CloudEngine S5755-H48J4Y2CZ |
| <br>PAC600S12-PB | • Dimensions (H x W x D): 39.6 mm x 66 mm x 215 mm (1.56 in. x 2.6 in. x 8.46 in.)<br>• Weight without packaging [kg(lb)]: 1 kg (2.20 lb)<br>• Rated input voltage [V]:<br>– 100 V AC to 240 V AC, 50/60 Hz<br>– 240 V DC<br>• Input voltage range [V]:<br>– 90 V AC to 290 V AC, 45 Hz to 66 Hz | • CloudEngine S5755-H24J8T4Y2CZ<br>• CloudEngine S5755-H48J4Y2CZ |

| Power Module | Technical Specifications | Applied Switch Model |
| --- | --- | --- |
| | – 190 V DC to 290 V DC<br>• Maximum input current [A]:<br>– 100 V AC to 240 V AC: 8 A<br>– 240 V DC: 4 A<br>• Rated output current [A]: 50 A<br>• Rated output voltage [V]: 12 V<br>• Rated output power [W]: 600 W<br>• Hot swap: Supported | |
| <br>PDC400S12-CB | • Dimensions (H x W x D): 39.6 mm x 66.0 mm x 215 mm (1.56 in. x 2.6 in. x 8.46 in.)<br>• Weight: 0.679 kg (1.5 lb)<br>• Rated input voltage [V]:<br>– +48 V DC<br>– -48 V DC to -60 V DC<br>• Input voltage range [V]:<br>– +40 V DC to +57 V DC<br>– -38.4 V DC to -72 V DC<br>• Maximum input current [A]: 12A<br>• Rated output current [A]: 35.52A<br>• Rated output voltage [V]: 12.3 V<br>• Rated output power [W]: 400 W<br>• Hot swap: Supported | • CloudEngine S5755-H24J8T4Y2CZ<br>• CloudEngine S5755-H48J4Y2CZ |

# Product Features and Highlights

## Enabling Networks to Be More Agile for Services

- The CloudEngine S5755-H series is equipped with built-in high-speed, flexible processors dedicated for Ethernet, which offer flexible packet processing and traffic control capabilities. This ensures that the series is ready for both current and future service requirements, helping enterprises build highly scalable networks.
- The series supports user-defined traffic forwarding modes, forwarding behaviors, and search algorithms. In addition, microcode programmability enables new services to be provisioned within just six months, without the need to replace hardware.
- In addition to offering the capabilities of traditional switches, the CloudEngine S5755-H series provides open interfaces and supports user-defined forwarding processes to meet service customization requirements of enterprises. By leveraging these open interfaces at all levels, enterprises can develop new protocols and functions independently or in collaboration with equipment vendors, ultimately creating campus networks tailored to their specific needs.

## Delivering Abundant Services More Agilely

- The CloudEngine S5755-H series integrates Wireless Access Controller (WAC) functionality and can manage up to 1K Access Points (APs). Compared with a standalone WAC, this series helps users save costs on equipment purchase, installation, deployment, and daily Operations and Maintenance (O&M). More importantly, it enables wired and wireless convergence, eliminating the forwarding performance bottleneck of standalone WACs and facilitating smooth evolution toward the high-speed wireless era.
- The CloudEngine S5755-H series supports unified user management, eliminating differences in access device capabilities and access methods. It supports multiple authentication modes such as 802.1X, MAC address, and Portal authentication, and is capable of managing users based on user groups, domains, and time ranges. With full visibility and control of users and services, the series enables a shift from device-centric management to user experience–centric management.
- The CloudEngine S5755-H series delivers excellent Quality of Service (QoS) capabilities, featuring comprehensive queue scheduling and congestion control algorithms and innovative priority scheduling and multi-level queue scheduling mechanisms.

These capabilities enable fine-grained scheduling of data flows at multiple levels, meeting the QoS requirements of different user terminals and diverse enterprise services.

*Note: The CloudEngine S5755-H series can manage 16 APs by default. If more APs need to be managed, purchase licenses as required.*

## Providing Fine Granular Network Management More Agilely

- The CloudEngine S5755-H series supports Native-IP In-situ Flow Information Telemetry (IFIT), formerly known as iPCA 2.0. Native-IP IFIT is an in-band Operations, Administration and Maintenance (OAM) measurement technology that directly measures service packets to obtain an IP network's real performance indicators, such as the packet loss rate and delay. It can significantly improve the timeliness and effectiveness of network O&M, driving the development of intelligent O&M.
- Currently, Native-IP IFIT supports three modes: application-level quality measurement, tunnel-level quality measurement, and native-IP IFIT measurement. However, the CloudEngine S5755-H series supports only native-IP IFIT measurement. Specifically, in-band measurement enables real-time monitoring of key indicators such as delay and packet loss rate in service flows. It also enables visualized O&M by centrally managing networks and graphically displaying performance data. With high precision and easy deployment, native-IP IFIT lays the foundation for intelligent, future-ready O&M.
- The series also supports Intelligent Flow (iFlow), a measurement technology implemented at the transport layer. iFlow can monitor the quality of both long-flow and short-flow services, extending the full-lifecycle monitoring capability of key applications. It provides one-stop, visualized all-flow quality deterioration analysis services for applications and networks.

## Flexible Ethernet Networking

- In addition to supporting traditional Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), and Multiple Spanning Tree Protocol (MSTP), the CloudEngine S5755-H series also supports the latest Ethernet Ring Protection Switching (ERPS) standard. Defined in ITU-T G.8032, ERPS provides millisecond-level protection switching based on traditional Ethernet MAC and bridging functions.
- The CloudEngine S5755-H series also supports Smart Link and Virtual Router Redundancy Protocol (VRRP), which implement backup of uplinks. One CloudEngine S5755-H switch can connect to multiple aggregation switches through multiple links, significantly improving reliability of access devices.

## Various Security Control Methods

- Huawei switches support post-quantum cryptography (PQC) algorithms and encryption capabilities within transport security protocols, effectively defending against decryption threats posed by quantum computing to deliver future-proof quantum-resistant security for network infrastructure.
- The CloudEngine S5755-H series supports 802.1X authentication, Portal authentication, and MAC address authentication. It can dynamically deliver user policies such as Virtual Local Area Networks (VLANs), QoS policies, and Access Control Lists (ACLs), and manage users based on user groups.
- The CloudEngine S5755-H series provides comprehensive mechanisms to defend against Denial of Service (DoS) and user-targeted attacks. DoS attacks are targeted at switches and include SYN flood, Land, Smurf, and Internet Control Message Protocol (ICMP) flood attacks. User-targeted attacks include bogus Dynamic Host Configuration Protocol (DHCP) server attacks, IP/MAC address spoofing, DHCP request flood, and change of the DHCP Client Hardware Address (CHADDR) value.
- The CloudEngine S5755-H series sets up and maintains a DHCP snooping binding table, and discards the packets that do not match the table entries. Users can specify DHCP snooping trusted and untrusted ports to ensure that users connect only to the authorized DHCP server.
- The CloudEngine S5755-H series supports strict Address Resolution Protocol (ARP) entry learning, which protects against ARP spoofing attacks and ensures reliable Internet access for authorized users.
- The CloudEngine S5755-H series supports 256-bit Media Access Control Security (MACsec) that provides Layer 2 data link-level encryption to ensure data transmission security.

## Mature IPv6 Features

- The CloudEngine S5755-H series is developed on a mature, stable platform and supports IPv4/IPv6 dual stack and IPv6 routing protocols (such as RIPng, OSPFv3, BGP4+, and IS-IS for IPv6). With these features, the CloudEngine S5755-H series can be deployed on pure IPv4 networks, pure IPv6 networks, or shared IPv4/IPv6 networks, facilitating the transition from IPv4 to IPv6.

## Intelligent Stack (iStack)

- The CloudEngine S5755-H series features the Intelligent Stack (iStack) function, which combines multiple switches into a logical switch.
- Member switches in a stack provide redundancy to enhance device reliability and use link aggregation between devices to improve link reliability.
- iStack delivers high network scalability, so that users can expand ports, bandwidth, and processing capacity simply by adding member switches.
- iStack also simplifies configuration and management. Once a stack is set up, users can log in to any member switch to manage the entire stack.

## Inter-Device Link Aggregation, Ensuring High Efficiency and Reliability

- The CloudEngine S5755-H supports Multichassis Link Aggregation Group (M-LAG) to implement link aggregation among multiple devices, improving link reliability from the card level to the device level.
- Switches in an M-LAG all work in active state to share traffic and back up each other, enhancing system reliability.
- Switches in an M-LAG system can be upgraded independently. During the upgrade, other switches in the system take over traffic forwarding to ensure uninterrupted services.
- M-LAG supports dual-homing to Ethernet, VXLAN, and IP networks, allowing for flexible networking.

## VXLAN Features

- The CloudEngine S5755-H series is Virtual Extensible Local Area Network (VXLAN)-capable and offers both centralized and distributed VXLAN gateway deployment modes. It also supports the BGP EVPN protocol for dynamically establishing VXLAN tunnels, and can be configured using NETCONF/YANG.
- The CloudEngine S5755-H series leverages VXLAN to construct a Unified Virtual Fabric (UVF), enabling multiple service or tenant networks to run on the same physical infrastructure while remaining isolated from each other. This capability delivers "one network for multiple purposes," allowing data transmission for different services or customers, reducing network construction costs, and improving network resource utilization.

## Intelligent O&M

- The CloudEngine S5755-H series supports Telemetry to collect device data in real time and forward it to Huawei's campus network analyzer, iMaster NCE-CampusInsight. By leveraging intelligent fault identification algorithms, iMaster NCE-CampusInsight analyzes network data, accurately displays the real-time network status, quickly demarcates and locates faults, and identifies network issues that affect user experience—ensuring optimal user experience.
- The CloudEngine S5755-H series also supports WebMaster, an embedded local management platform. WebMaster automatically discovers the network topology and provides full-network visibility, including topology, Network Elements (NEs), and device alarms. It also enables unified management of switches, AR routers, and APs—without requiring an external network management system. WebMaster offers a graphical interface for intuitive operations, including guided service provisioning, one-click batch upgrades, zero-configuration device replacement, and automatic authentication and onboarding of NEs, as well as detection and automatic elimination of loops caused by incorrect cable connections. With WebMaster, a single device can deliver full visibility, management, and control of the entire campus network.

## Intelligent Upgrade

- Based on the Huawei Online Upgrade Platform (HOUP), the CloudEngine S5755-H series supports the smart upgrade feature. The switches obtain version upgrade paths from the HOUP and download new versions automatically. The upgrade process is highly automated, enabling true one-click upgrades. In addition, preloading versions is supported, which greatly shortens upgrade time and minimizes service downtime.
- Smart upgrade significantly simplifies device upgrade operations, making customer-driven upgrades possible and greatly reducing maintenance costs. With the HOUP's standardized upgrade strategies, upgrade paths are regulated, which substantially lowers the risk of upgrade failures.

## Big Data Security Collaboration

- The CloudEngine S5755-H series uses NetStream to collect campus network data and report the data to Huawei HiSec Insight. This is done to detect network security threats, display the overall security posture, and enable both automated or manual responses to threats. HiSec Insight delivers security policies to iMaster NCE-Campus (or Agile Controller), which then

distributes the policies to switches that handle security events accordingly. Together, these capabilities ensure campus network security.

### Cloud Management

- The Huawei cloud management platform allows users to configure, monitor, and inspect switches on the cloud, reducing on-site deployment and O&M manpower costs and decreasing network OPEX. Huawei switches support both cloud management and on-premise management modes. These two management modes can be flexibly switched as required to achieve smooth evolution while maximizing return on investment (ROI).

### Link Layer Security

- This series switches support MACsec. MACsec protects transmitted Ethernet data frames through identity authentication, data encryption, integrity check, and anti-replay protection, reducing the risks of information leakage and malicious network attacks. With MACsec, these switch models are able to address strict information security requirements of customers in industries such as government and finance.

### Open Programmability System (OPS)

- Open Programmability System (OPS) is an open programmable system based on the Python language. IT administrators can program the O&M functions of a switch through Python scripts to quickly innovate functions and implement intelligent O&M.

## Licensing

### IDN One Software

The CloudEngine S5755-H series supports both traditional feature-based licensing and IDN One Software (N1) licensing. The N1 licensing mode is ideal for on-premises deployments of Huawei's campus network solution, as it greatly simplifies the customer experience in purchasing and upgrading software services.

Software Package Features in N1 Mode

| Switch Functions | N1 Basic Software | N1 Foundation Software Package | N1 Advanced Software Package |
|---|---|---|---|
| **Basic network functions:**<br>Layer 2 functions, IPv4, IPv6, and others<br>Note: For details, see the Service Features | √ | √ | √ |
| **Basic network automation based on the iMaster NCE-Campus:**<br>• Basic automation: Plug-and-play, SSID, and AP group management<br>• Basic monitoring: Application visualization<br>• NE management: Image and topology management and discovery<br>• User access authentication | × | √ | √ |
| **Automation and intelligent O&M:**<br>Basic functions for intelligent network analysis of CampusInsight. | × | √ | √ |
| **Advanced network automation and intelligent O&M:**<br>VXLAN, free mobility, Endpoint plug&play of iMaster NCE-Campus and Application analysis function of CampusInsight, Smart Anomaly Detection (SmartAD) | × | × | √ |

# Product Specifications

## Functions and Features

| Category | Service Feature |
|---|---|
| MAC address table | Automatic MAC address learning, synchronization, and aging |
| | Static MAC address and dynamic MAC address management |
| | Static, dynamic, and blackhole MAC address entries |
| | Packet filtering based on source MAC addresses |
| | MAC address learning limiting based on ports |
| VLAN | Support for 4K VLANs simultaneously |
| | Voice VLAN |
| | MUX VLAN |
| | Super-VLAN and sub-VLAN |
| | VLAN stacking and VLAN mapping |
| | LNP, VCMP, and GVRP |
| | Basic QinQ and selective QinQ |
| Layer 2 ring network protocol | Smart Link tree topology and Smart Link multi-instance, providing millisecond-level protective switchover |
| | ERPS (G.8032) support, enabling less than 50 ms switchover upon a fault |
| | STP (IEEE 802.1d), RSTP (IEEE 802.1w), MSTP (IEEE 802.1s), and VBST |
| | BPDU protection, root protection, and loop protection |
| | BPDU tunnel |
| | SEP |
| Detection protocol | LBDT, L2PT, and DLDP |
| | Smart Link and Monitor Link |
| | 802.1ag, 802.3ah, and Y.1731 |
| Multicast | PIM DM, PIM SM, and PIM SSM |
| | IGMP v1/v2/v3, IGMP v1/v2/v3 snooping, and MLD snooping |
| | IPv4/IPv6 multicast routing and multicast load balancing |
| | Multicast VPN |
| | IP multicast over VXLAN, including Layer 2/Layer 3 multicast over VXLAN |
| | Multicast traffic statistics on a per-port basis |
| | Multicast VLAN and static multicast MAC |
| IP services | Dual-stack IPv4 and IPv6 |
| | ARP |
| | Neighbor discovery (ND) |

| Category | Service Feature |
| --- | --- |
| | DNS |
| | DHCPv4 client, DHCPv4 relay, DHCPv4 server, and DHCPv4 snooping |
| | DHCPv6 client, DHCPv6 relay, DHCPv6 server, and DHCPv6 snooping |
| | URPF |
| | 6to4 Tunnel、6over4 Tunnel、4over6 Tunnel、6PE |
| | IPv4/v6 ping, tracert, and telnet |
| IP routing | Static route, routing policy, and policy-based routing |
| | RIPv1/v2, RIPng, OSPFv2, OSPFv3, IS-IS, ISISv6, BGP, and BGP4+ |
| MPLS | MPLS LDP |
| | MPLS TE |
| | MPLS QoS |
| VPN | MPLS L2VPN (VPLS/VPWS) and MPLS L3VPN |
| | MPLS BGP VPN |
| | GRE |
| Segment routing | SRv6 BE (L3 EVPN) |
| | BGP EVPN |
| | SRv6 configuration through NETCONF |
| VXLAN | VXLAN distributed gateway and centralized gateway modes |
| | BGP EVPN |
| | VXLAN Layer 2 forwarding |
| | VXLAN Layer 3 forwarding |
| | VXLAN configuration through NETCONF and SDN-based automated wired network deployment |
| | VXLAN over IPv6 (static) |
| | VXLAN-Routing, VXLAN-Bridge, VXLAN-Tunnel, and VXLAN-Access |
| Reliability | LACP |
| | M-LAG |
| | VRRP |
| | BFD |
| | LLDP |
| User access and authentication | Multiple authentication modes, including AAA, RADIUS, RADIUS over DTLS, and HWTACACS |
| | Policy association |
| | Endpoint identification and unauthorized access prevention |
| | Free mobility |
| | 802.1X, MAC address, and Portal authentication |

| Category | Service Feature |
| --- | --- |
| QoS/ACL | Rate limiting on packets sent and received by a port |
| | Packet redirection |
| | Port-based traffic policing and two-rate three-color CAR |
| | Eight queues on each port |
| | SP, DRR, WDRR, SP+DRR, and SP+WDRR queue scheduling algorithms |
| | WRED |
| | Marking of 802.1p and DSCP priorities 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 source port number/destination port number, protocol type, and VLAN ID |
| | Rate limiting in each queue and traffic shaping on ports |
| | VLAN slicing |
| Security features | 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 |
| | ARP security features including ARP snooping, ND snooping, ARP conflict detection, Dynamic ARP Inspection (DAI), and Egress ARP Inspection (EAI). |
| | Blackhole MAC addresses |
| | Unknown unicast, unknown multicast, and broadcast storm control on a per-port basis |
| | IEEE 802.1X authentication, with per-port maximum user limits |
| | IP Source Guard (IPSG) |
| | Smart Anomaly Detection (SmartAD) |
| | Public Key Infrastructure (PKI) |
| | SSH v2.0 |
| | HTTPS |
| | MACsec |
| | CPU attack defense |
| | CPU protection |
| | Blacklist and whitelist mechanisms |
| | Host Intrusion Prevention System (HIPS) and Federal Information Processing Standard (FIPS) |
| | Source Address Validation Improvement (SAVI) |
| Network management and monitoring | iStack and fast stack upgrade |
| | Up to 9 switches in a stack |
| | SNMPv1/v2c/v3 |
| | NETCONF/YANG-based cloud management |

| Category | Service Feature |
| --- | --- |
| | Management via the eSight or web system |
| | RMON |
| | iPCA, Netstream, sFlow, NQA, and Telemetry |
| | Port mirroring, traffic mirroring, RSPAN, and ERSPAN |
| | Packet loss visibility |
| | Application identification |
| | iFlow-based full-flow quality degradation analysis |
| | USB-based deployment, deployment through the registration query center, and SZTP |
| | RESTCONF, gRPC, and EVA |
| Network maintenance | Telnet for remote configuration and maintenance |
| | Ping and traceroute |
| | Virtual Cable Test (VCT) |
| | FTP, SFTP, and TFTP file management |
| | Time management |
| | CPU and memory resource monitoring |
| | System logs and hierarchical alarms |
| | Hot patching |
| | User operation logs |
| | IEEE 802.3az Energy-Efficient Ethernet (EEE) |
| | Configuration rollback |
| | Webmaster-based management |
| Wireless management (integrated WAC): Basic WLAN services | Hot backup for devices with integrated WAC functionality in cluster mode |
| | 2.4 GHz & 5 GHz load balancing |
| | 5 GHz-prior access |
| Wireless management (integrated WAC): AP management | Up to 1K APs managed |
| | IPv4 network between an AP and a WAC |
| | AP blacklist |
| | AP whitelist |
| | Setting of the AP access control mode |
| | AP configuration and management |
| | AP LLDP topology awareness |
| Wireless management (integrated WAC): Wireless user management | User roaming within a WAC |
| | AP-based user location |
| | 802.1X authentication |

| Category | Service Feature |
| --- | --- |
| | MAC address authentication |
| | Portal authentication |
| Wireless management (integrated WAC): CAPWAP | Direct forwarding over Layer 2/Layer 3 networks |
| | Tunnel forwarding over Layer 2/Layer 3 networks |
| | CAPWAP tunnel encryption |
| Wireless management (integrated WAC): RF management | 802.11a/b/g/n |
| | 802.11ac wave1/wave2 |
| | 802.11ax |
| | 802.11be |
| | Sets RF interference monitoring and avoidance |
| | Detects co-channel interference, adjacent-channel interference, and interference from other devices and STAs |
| | Automatically selects channels and power when APs go online |
| | Dynamically optimizes power and channels |
| Wireless management (integrated WAC): WLAN QoS | Rate limiting of upstream and downstream traffic on the air interface based on the VAP |
| | Rate limiting of upstream and downstream traffic on the air interface based on users |
| | CAR for WLAN users |
| Interoperability | VBST (compatible with PVST/PVST+/RPVST) |

## Hardware Specifications

The following table lists the hardware specifications of the CloudEngine S5755-H.

Hardware specifications of CloudEngine S5755-H models

| Item | | CloudEngine S5755-H24J8T4Y2CZ | CloudEngine S5755-H48J4Y2CZ |
| --- | --- | --- | --- |
| Physical specifications | Dimensions (H x W x D, mm) | 43.6 x 442 x 420 | 43.6 x 442 x 420 |
| | Chassis height | 1 U | 1 U |
| | Weight with packaging [kg(lb)] | 9.39kg | 9.7kg |
| Fixed port | GE RJ45 port | 8 | NA |
| | 2.5GE SFP port | 24 | 48 |
| | 25GE SFP28 port | 4 | 4 |
| | 100GE QSFP28 port | 2 | 2 |
| Extended slot | HSIC-X08S000 | 8*10GE SFP+ ports or 4*25GE SFP28 ports (only ports 1 to 4 support 25GE) | |
| | HSIC-Y08S000 | 8*25GE SFP28 ports | |
| | HSIC-Q04S000 | 4*40GE QSFP ports or 2*100GE QSFP28 ports (only ports 1/3 support 100GE） | |
| Manage | ETH port (RJ45) | Supported | Supported |

| Item | | CloudEngine S5755-H24J8T4Y2CZ | CloudEngine S5755-H48J4Y2CZ |
|---|---|---|---|
| ment port | Console port (RJ45) | Supported | Supported |
| | USB port | USB 2.0 | USB 2.0 |
| CPU | Frequency | 2 GHz | 2 GHz |
| | Cores | 4 | 4 |
| Storage | Memory (RAM) | 4 GB | 4 GB |
| | Flash memory | 2 GB | 2 GB |
| Power supply system | Power supply type | • 180 W AC (pluggable)<br>• 240 W DC (pluggable)<br>• 600 W AC (pluggable)<br>• 400W DC (pluggable) | • 180 W AC (pluggable)<br>• 240 W DC (pluggable)<br>• 600 W AC (pluggable)<br>• 400W DC (pluggable) |
| | Rated voltage range | • AC input: 100 V AC to 240 V AC; 50/60 Hz<br>• High-voltage DC input: 240 V DC<br>• DC input: –48 V DC to –60 V DC; +48 V DC | • AC input: 100 V AC to 240 V AC; 50/60 Hz<br>• High-voltage DC input: 240 V DC<br>• DC input: –48 V DC to –60 V DC; +48 V DC |
| | Input voltage range [V] | • AC input: 90 V AC to 290 V AC, 45 Hz to 66 Hz<br>• High-Voltage DC input: 190 V DC to 290 V DC<br>• DC input: -38.4 V DC to -72 V DC; +40 V DC to +57 V DC | • AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz<br>• High-voltage DC input: 190 V DC to 290 V DC<br>• DC input: –38.4 V DC to –72 V DC; +40 V DC to +57 V DC |
| | Maximum power consumption | 100% traffic under the ATIS standard, dual power modules:<br>• 116 W (all ports used, two 180 W AC power modules)<br>• 105 W (all ports used, two 240 W DC power modules) | 100% traffic under the ATIS standard, dual power modules:<br>• 155 W (all ports used, two 180 W AC power modules)<br>• 144 W (all ports used, two 240 W DC power modules) |
| | Typical power consumption | 30% traffic under the ATIS standard, dual power modules:<br>• 110 W (all ports used, two 180 W AC power modules)<br>• 97 W (all ports used, two 240 W DC power modules) | 30% traffic under the ATIS standard, dual power modules:<br>• 146 W (all ports used, two 180 W AC power modules)<br>• 134 W (all ports used, two 240 W DC power modules) |
| | Static power consumption | 60 W | 76 W |
| Heat dissipation system | Heat dissipation mode | Air cooling for heat dissipation, intelligent fan speed adjustment | Air cooling for heat dissipation, intelligent fan speed adjustment |
| | Number of fan modules | 2, Pluggable | 2 ,Pluggable |
| | Airflow direction | Air intake from left, front, and right and air exhaust from rear | Air intake from left, front, and right and air exhaust from rear |
| | Maximum heat dissipation of the device (BTU/hour) | 100% traffic under the ATIS standard, dual power modules:<br>• 395.80 (all ports used, two 180 W AC power modules)<br>• 358.27 (all ports used, two 240 W DC | 100% traffic under the ATIS standard, dual power modules:<br>• 528.88 (all ports used, two 180 W AC power modules)<br>• 491.34 (all ports used, two 240 W |

| Item | | CloudEngine S5755-H24J8T4Y2CZ | CloudEngine S5755-H48J4Y2CZ |
|---|---|---|---|
| | | power modules) | DC power modules) |
| Environment parameters | Long-term operating temperature | • 0-1800 m: -5°C to 45°C (23°F to 113°F)<br>• 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m | • 0-1800 m: -5°C to 45°C(23°F to 113°F)<br>• 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m |
| | Short-term operating temperature | • 0-1800 m: -5°C to 50°C<br>• 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m | • 0-1800 m: -5°C to 50°C<br>• 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m |
| | Storage temperature | –40°C to +70°C (–40°F to +158°F) | -40°C to +70°C(–40°F to +158°F) |
| | Relative humidity | 5%–95% (non-condensing) | 5%–95% (non-condensing) |
| | Operating altitude | 5000 m | 5000 m |
| | Noise under normal temperature (sound power) | 56.8 dB(A) | 55.4 dB(A) |
| | Noise under normal temperature (sound pressure) | 40.1 dB(A) | 38.7 dB(A) |
| | Surge protection specification (power port) | • AC power port: ±6 kV in differential mode, ±6 kV in common mode<br>• 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<br>• DC power port: ±2 kV in differential mode, ±4 kV in common mode |
| Reliability | MTBF (year) | 51.15 years | 50.64 years |
| | Availability | > 0.99999 | > 0.99999 |
| Certification | | • EMC certification<br>• Safety certification<br>• Manufacturing certification | • EMC certification<br>• Safety certification<br>• Manufacturing certification |

**NOTE**

1: The power consumption under different load conditions is calculated according to the ATIS standard. Additionally, the EEE function is enabled and there is no PoE power output.

2: The reliability parameter values are calculated based on the typical configuration of the device. The parameter values vary according to the modules configured by the customer.

## Performance Specification

| Entries | S5755-H series switches |
|---|---|
| Number of dynamic MAC address entries | Up to 256K |
| Number of static MAC address entries | 1024 |
| Maximum number of VLANs | 4094 |
| Number of VLANIF interfaces | 4094 |
| IPv4 routing entries | Up to 192K |

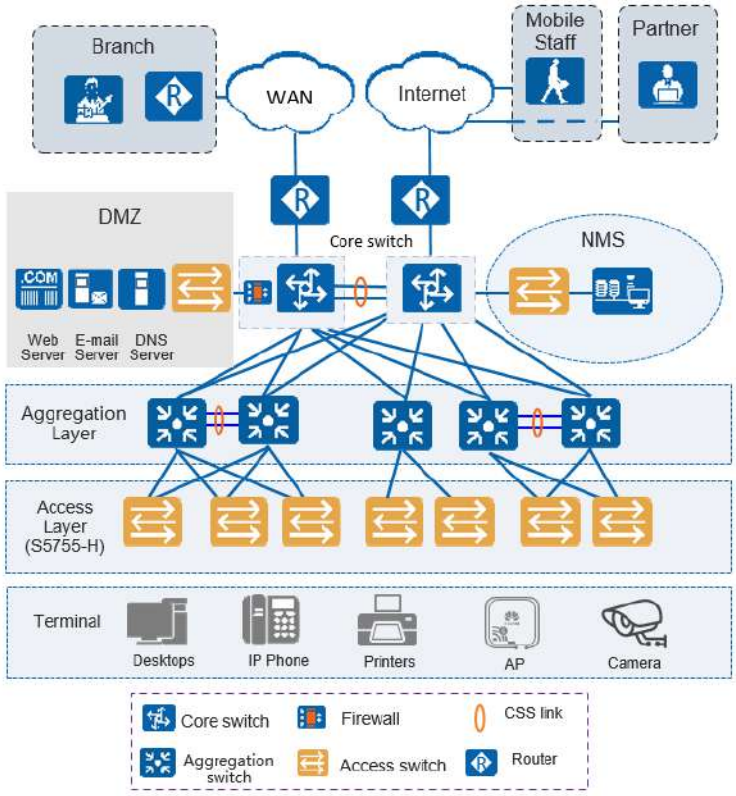
| Entries | S5755-H series switches |
|---|---|
| IPv6 routing entries | Up to 96K |
| Number of ARP entries | Up to 130500 |
| Number of ND entries | Up to 65000 |
| ACL scale entries | IPV4: 42K@320 bit (K=1024) , IPV6: 21K@640 bit (K=1024) |
| IPv4/IPv6 multicast L2 entries | 16K/4K |
| IPv4/IPv6 multicast L3 entries | 16K/4K |
| Device buffer (byte) | 12MB |
| Jumbo frames | Up to 9600 |

# Networking and Applications

The CloudEngine S5755-H series features full-port MACsec support, high performance, and large table capacity, ensuring zero packet loss even during burst traffic. The series enables seamless wired and wireless convergence with unified device, user, and service management. These capabilities make the CloudEngine S5755-H series an ideal choice as access switches in large campuses, aggregation switches in midsize campuses, and core switches in enterprise branches and small campuses, helping customers build campus networks that are scalable, easy to manage, and highly reliable.

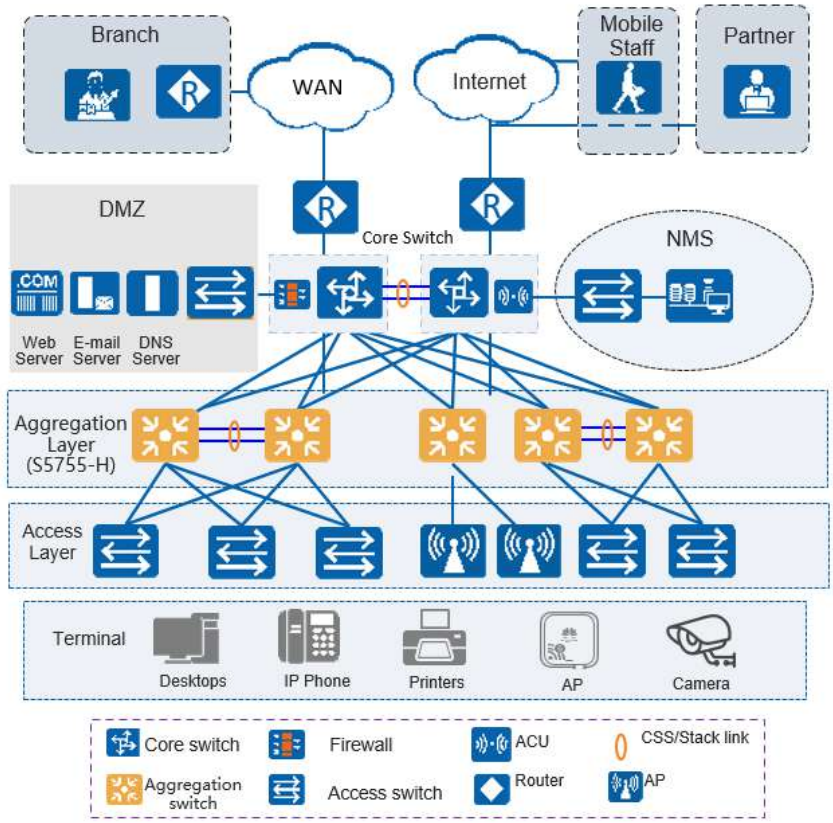
## Large-Scale Enterprise Campus Network

The CloudEngine S5755-H series can be deployed at the access layer of a large campus to build a high-performance and highly reliable enterprise network.



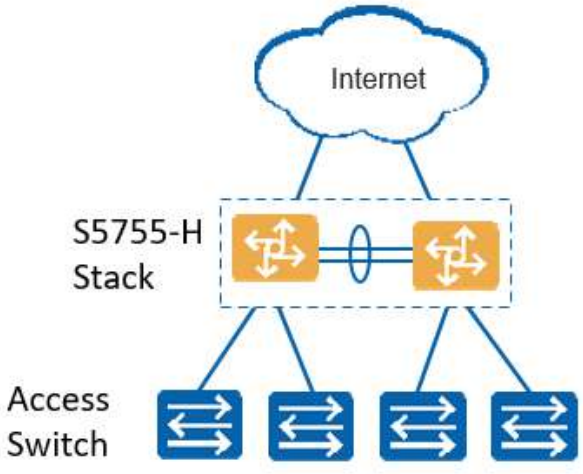
## Midsize Enterprise Campus Scenario

The CloudEngine S5755-H series can be deployed at the aggregation layer of a midsize campus to build a high-performance, service-rich, and highly reliable enterprise network.




## Small-scale Enterprise Campus Network

CloudEngine S5755-H series switches deliver powerful aggregation and routing capabilities, making them ideal as core switches for small enterprise networks. Two or more S5755-H switches can form an iStack system to ensure high reliability. They also provide a variety of access control policies to enable centralized management and simplify configuration.




# Safety and Regulatory Compliance

The following table lists the safety and regulatory compliance of the CloudEngine S5755-H.

| Certification Category | Description |
| --- | --- |
| Safety | IEC 62368-1 |
| | EN 62368-1 |
| | UL 62368-1 |
| | CSA C22.2 No 62368-1 |
| Electromagnetic Compatibility (EMC) | CISPR32 |
| | CISPR35 |
| | EN 55032 |
| | EN 55035 |
| | ETSI EN 300 386 |
| | CFR 47 FCC Part 15 |
| | ICES 003 |
| | AS/NZS CISPR32 |
| | VCCI |
| | IEC61000-4-2 |
| Environment | RoHS |
| | REACH |
| | WEEE |
| Laser safety | IEC60825-1 |
| | IEC60825-2 |
| | EN60825-1 |
| | EN60825-2 |

**NOTE**

- EMC: electromagnetic compatibility
- CISPR: International Special Committee on Radio Interference
- EN: European Standard
- ETSI: European Telecommunications Standards Institute
- CFR: Code of Federal Regulations
- FCC: Federal Communication Commission
- IEC: International Electrotechnical Commission
- AS/NZS: Australian/New Zealand Standard
- VCCI: Voluntary Control Council for Interference
- UL: Underwriters Laboratories
- CSA: Canadian Standards Association
- IEEE: Institute of Electrical and Electronics Engineers
- RoHS: restriction of the use of certain hazardous substances
- REACH: Registration Evaluation Authorization and Restriction of Chemicals
- WEEE: Waste Electrical and Electronic Equipment

# MIB and Standards Compliance

## Supported MIBs

The following table lists the MIBs supported by the CloudEngine S5755-H.

MIBs supported by the CloudEngine S5755-H series

| Category | MIB |
| --- | --- |
| Public MIB | • BRIDGE-MIB<br>• DISMAN-NSLOOKUP-MIB<br>• DISMAN-PING-MIB<br>• DISMAN-TRACEROUTE-MIB<br>• ENTITY-MIB<br>• EtherLike-MIB<br>• IF-MIB<br>• IP-FORWARD-MIB<br>• IPv6-MIB<br>• LAG-MIB<br>• LLDP-EXT-DOT1-MIB<br>• LLDP-EXT-DOT3-MIB<br>• LLDP-MIB<br>• MPLS-FTN-STD-MIB<br>• MPLS-L3VPN-STD-MIB<br>• MPLS-LDP-GENERIC-STD-MIB<br>• MPLS-LDP-STD-MIB<br>• MPLS-LSR-STD-MIB<br>• MPLS-TE-STD-MIB<br>• NOTIFICATION-LOG-MIB<br>• NQA-MIB<br>• OSPF-TRAP-MIB<br>• P-BRIDGE-MIB<br>• Q-BRIDGE-MIB<br>• RFC1213-MIB<br>• RIPv2-MIB<br>• RMON2-MIB<br>• RMON-MIB<br>• SAVI-MIB<br>• SNMP-FRAMEWORK-MIB<br>• SNMP-MPD-MIB<br>• SNMP-NOTIFICATION-MIB<br>• SNMP-TARGET-MIB<br>• SNMP-USER-BASED-SM-MIB<br>• SNMPv2-MIB<br>• TCP-MIB<br>• UDP-MIB |
| Huawei-proprietary MIB | • HUAWEI-AAA-MIB |

| Category | MIB |
| --- | --- |
| | • HUAWEI-ACL-MIB<br>• HUAWEI-ALARM-MIB<br>• HUAWEI-ALARM-RELIABILITY-MIB<br>• HUAWEI-BASE-TRAP-MIB<br>• HUAWEI-BRAS-RADIUS-MIB<br>• HUAWEI-BRAS-SRVCFG-EAP-MIB<br>• HUAWEI-BRAS-SRVCFG-STATICUSER-MIB<br>• HUAWEI-CBQOS-MIB<br>• HUAWEI-CDP-COMPLIANCE-MIB<br>• HUAWEI-CONFIG-MAN-MIB<br>• HUAWEI-CPU-MIB<br>• HUAWEI-DAD-TRAP-MIB<br>• HUAWEI-DC-MIB<br>• HUAWEI-DATASYNC-MIB<br>• HUAWEI-DEVICE-MIB<br>• HUAWEI-DHCPR-MIB<br>• HUAWEI-DHCPS-MIB<br>• HUAWEI-DHCP-SNOOPING-MIB<br>• HUAWEI-DIE-MIB<br>• HUAWEI-DNS-MIB<br>• HUAWEI-DLDP-MIB<br>• HUAWEI-ELMI-MIB<br>• HUAWEI-ERPS-MIB<br>• HUAWEI-ERRORDOWN-MIB<br>• HUAWEI-ENERGYMNGT-MIB<br>• HUAWEI-EASY-OPERATION-MIB<br>• HUAWEI-ENTITY-EXTENT-MIB<br>• HUAWEI-ENTITY-TRAP-MIB<br>• HUAWEI-ETHARP-MIB<br>• HUAWEI-ETHOAM-MIB<br>• HUAWEI-FLASH-MAN-MIB<br>• HUAWEI-FWD-RES-TRAP-MIB<br>• HUAWEI-GARP-APP-MIB<br>• HUAWEI-GTSM-MIB<br>• HUAWEI-HGMP-MIB<br>• HUAWEI-HWTACACS-MIB<br>• HUAWEI-IF-EXT-MIB<br>• HUAWEI-INFOCENTER-MIB<br>• HUAWEI-IPPOOL-MIB<br>• HUAWEI-IPV6-MIB<br>• HUAWEI-ISOLATE-MIB<br>• HUAWEI-L2IF-MIB<br>• HUAWEI-L2MAM-MIB<br>• HUAWEI-L2VLAN-MIB<br>• HUAWEI_LDT-MIB |

| Category | MIB |
| --- | --- |
| | • HUAWEI-LLDP-MIB<br>• HUAWEI-MAC-AUTHEN-MIB<br>• HUAWEI-MEMORY-MIB<br>• HUAWEI-MFF-MIB<br>• HUAWEI-MFLP-MIB<br>• HUAWEI-MSTP-MIB<br>• HUAWEI-BGP-VPN-MIB<br>• HUAWEI-CCC-MIB<br>• HUAWEI-MULTICAST-MIB<br>• HUAWEI-NAP-MIB<br>• HUAWEI-NTPV3-MIB<br>• HUAWEI-PERFORMANCE-MIB<br>• HUAWEI-PORT-MIB<br>• HUAWEI-PORTAL-MIB<br>• HUAWEI-QINQ-MIB<br>• HUAWEI-RIPv2-EXT-MIB<br>• HUAWEI-RM-EXT-MIB<br>• HUAWEI-RRPP-MIB<br>• HUAWEI-SECURITY-MIB<br>• HUAWEI-SEP-MIB<br>• HUAWEI-SNMP-EXT-MIB<br>• HUAWEI-SSH-MIB<br>• HUAWEI-STACK-MIB<br>• HUAWEI-SWITCH-L2MAM-EXT-MIB<br>• HUAWEI-SWITCH-SRV-TRAP-MIB<br>• HUAWEI-SYS-MAN-MIB<br>• HUAWEI-TCP-MIB<br>• HUAWEI-TFTPC-MIB<br>• HUAWEI-TRNG-MIB<br>• HUAWEI-XQOS-MIB |

## Standard Compliance

The following table lists the standards that the CloudEngine S5732-H complies with.

Standard compliance list of the CloudEngine S5755-H series

| Standard Organization | Standard or Protocol |
| --- | --- |
| IETF | • RFC 768 User Datagram Protocol (UDP)<br>• RFC 792 Internet Control Message Protocol (ICMP)<br>• RFC 793 Transmission Control Protocol (TCP)<br>• RFC 826 Ethernet Address Resolution Protocol (ARP)<br>• RFC 854 Telnet Protocol Specification<br>• RFC 951 Bootstrap Protocol (BOOTP)<br>• RFC 959 File Transfer Protocol (FTP)<br>• RFC 1058 Routing Information Protocol (RIP) |

| Standard Organization | Standard or Protocol |
| --- | --- |
| | • RFC 1112 Host extensions for IP multicasting<br>• RFC 1157 A Simple Network Management Protocol (SNMP)<br>• RFC 1256 ICMP Router Discovery<br>• RFC 1305 Network Time Protocol Version 3 (NTP)<br>• RFC 1349 Internet Protocol (IP)<br>• RFC 1493 Definitions of Managed Objects for Bridges<br>• RFC 1542 Clarifications and Extensions for the Bootstrap Protocol<br>• RFC 1643 Ethernet Interface MIB<br>• RFC 1757 Remote Network Monitoring (RMON)<br>• RFC 1901 Introduction to Community-based SNMPv2<br>• RFC 1902-1907 SNMP v2<br>• RFC 1981 Path MTU Discovery for IP version 6<br>• RFC 2131 Dynamic Host Configuration Protocol (DHCP)<br>• RFC 2328 OSPF Version 2<br>• RFC 2453 RIP Version 2<br>• RFC 2460 Internet Protocol, Version 6 Specification (IPv6)<br>• RFC 2461 Neighbor Discovery for IP Version 6 (IPv6)<br>• RFC 2462 IPv6 Stateless Address Auto configuration<br>• RFC 2463 Internet Control Message Protocol for IPv6 (ICMPv6)<br>• RFC 2474 Differentiated Services Field (DS Field)<br>• RFC 2740 OSPF for IPv6 (OSPFv3)<br>• RFC 2863 The Interfaces Group MIB<br>• RFC 2597 Assured Forwarding PHB Group<br>• RFC 2598 An Expedited Forwarding PHB<br>• RFC 2571 SNMP Management Frameworks<br>• RFC 2865 Remote Authentication Dial In User Service (RADIUS)<br>• RFC 3046 DHCP Option82/Relay<br>• RFC 3376 Internet Group Management Protocol, Version 3 (IGMPv3)<br>• RFC 3513 IP Version 6 Addressing Architecture<br>• RFC 3579 RADIUS Support For EAP<br>• RFC 4271 A Border Gateway Protocol 4 (BGP-4)<br>• RFC 4760 Multiprotocol Extensions for BGP-4<br>• draft-grant-tacacs-02 TACACS+<br>• RFC 6241 Network Configuration Protocol (NETCONF)<br>• RFC 6020 YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF)<br>• RFC4291 IP Version 6 Addressing Architecture<br>• RFC3484 Default Address Selection for Internet Protocol version 6 (IPv6)<br>• RFC4862 IPv6 Stateless Address Auto configuration<br>• RFC4541 Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) Snooping Switches |
| IEEE | • IEEE 802.1D Media Access Control (MAC) Bridges<br>• IEEE 802.1p Traffic Class Expediting and Dynamic Multicast Filtering<br>• IEEE 802.1Q Virtual Bridged Local Area Networks<br>• IEEE 802.1ad Provider Bridges |

| Standard Organization | Standard or Protocol |
|---|---|
| | • IEEE 802.2 Logical Link Control<br>• IEEE Std 802.3 CSMA/CD<br>• IEEE Std 802.3ab 1000BASE-T specification<br>• IEEE Std 802.3ab RJ45 con Auto-MDIX<br>• IEEE Std 802.3ad Aggregation of Multiple Link Segments<br>• IEEE Std 802.3ae 10GE WEN/LAN Standard<br>• IEEE Std 802.3x Full Duplex and flow control<br>• IEEE Std 802.3z Gigabit Ethernet Standard<br>• IEEE802.1ax/IEEE802.3ad Link Aggregation<br>• IEEE 802.1ag Connectivity Fault Management<br>• IEEE 802.1ab Link Layer Discovery Protocol<br>• IEEE 802.1D Spanning Tree Protocol<br>• IEEE 802.1w Rapid Spanning Tree Protocol<br>• IEEE 802.1s Multiple Spanning Tree Protocol<br>• IEEE 802.1x Port based network access control protocol<br>• IEEE 802.3az Automatic power adjustment on Ethernet interfaces |
| ITU | • ITU SG13 Y.17ethoam<br>• ITU SG13 QoS control Ethernet-Based IP Access |
| ISO | • ISO 10589 IS-IS Routing Protocol |
| MEF | • MEF 2 Requirements and Framework for Ethernet Service Protection<br>• MEF 9 Abstract Test Suite for Ethernet Services at the UNI<br>• MEF 10.2 Ethernet Services Attributes Phase 2<br>• MEF 11 UNI Requirements and Framework<br>• MEF 13 UNI Type 1 Implementation Agreement<br>• MEF 15 Requirements for Management of Metro Ethernet Phase 1 Network Elements<br>• MEF 17 Service OAM Framework and Requirements<br>• MEF 20 UNI Type 2 Implementation Agreement<br>• MEF 23 Class of Service Phase 1 Implementation Agreement<br>• Xmodem XMODEM/YMODEM Protocol Reference |

# Ordering Information

The following table lists ordering information of the CloudEngine S5755-H series switches.

| Model | Product Description |
|---|---|
| CloudEngine S5755-H24J8T4Y2CZ | S5755-H24J8T4Y2CZ (24*2.5G SFP, 8*10/100/1000BASE-Tports, 4*25GE SFP28, 2*100GE QSFP28, expansion card slot, without power module) |
| CloudEngine S5755-H48J4Y2CZ | S5755-H48J4Y2CZ (48*2.5G SFP, 4*25GE SFP28, 2*100GE QSFP28, expansion card slot, without power module) |
| PAC180S12-CN | 180 W AC&240 V DC Power Module |
| PDC240S12-CN | 240W DC Power Module |
| PAC600S12-PB | 600 W AC Power Module |

| Model | Product Description |
| --- | --- |
| PDC400S12-CB | 400W DC Power Module |
| FAN-031A-B | Fan module |
| HSIC-X08S000 | Interface card with 8*10GE SFP+ ports or 4*25GE SFP28 ports (only ports 1 to 4 support 25GE) |
| HSIC-Y08S000 | Interface card with 8*25GE SFP28 ports |
| HSIC-Q04S000 | Interface card with 4*40GE QSFP ports or 2*100GE QSFP28 ports (only ports 1/3 support 100GE) |
| N1-S57H-M-Lic | S57XX-H Series Basic SW, Per Device |
| N1-S57H-M-SnS1Y | S57XX-H Series Basic SW, SnS, Per Device,1Year |
| N1-S57H-F-Lic | N1-CloudCampus, Foundation, S57XX-H Series, Per Device |
| N1-S57H-F-SnS1Y | N1-CloudCampus, Foundation, S57XX-H Series, SnS, Per Device,1Year |
| N1-S57H-A-Lic | N1-CloudCampus, Advanced, S57XX-H Series, Per Device |
| N1-S57H-A-SnS1Y | N1-CloudCampus, Advanced, S57XX-H Series, SnS, Per Device,1Year |
| N1-S57H-FToA-Lic | N1-Upgrade-Foundation to Advanced, S57XX-H, Per Device |
| N1-S57H-FToA-SnS1Y | N1-Upgrade-Foundation to Advanced, S57XX-H, SnS, Per Device,1Year |
| N1-S57H-A-NVXLAN-Lic | N1-CloudCampus, Advanced non-vxlan, S57XX-H Series, Per Device |
| N1-S57H-A-NVXLAN-SnS1Y | N1-CloudCampus, Advanced non-vxlan, S57XX-H Series, SnS, Per Device,1 Year |
| N1-S57H-F2A-NVXLAN-Lic | N1-Upgrade-Foundation to Advanced non-vxlan, S57XX-H, Per Device |
| N1-S57H-F2A-NVXLAN-SnS1Y | N1-Upgrade-Foundation to Advanced non-vxlan, S57XX-H, SnS, Per Device,1 Year |

# More Information

For more information about Huawei Campus Switches, visit http://e.huawei.com or contact us in the following ways:

- Global service hotline: http://e.huawei.com/en/service-hotline
- Logging in to the Huawei Enterprise technical support website: http://support.huawei.com/enterprise/
- Sending an email to the customer service mailbox: support_e@huawei.com

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**Huawei Technologies Co., Ltd.**

Address:Huawei Industrial Base Bantian, Longgang Shenzhen 518129 People's Republic of China

Website:e.huawei.com