

CloudEngine S5735-L Series Switches Datasheet

Huawei CloudEngine S5735-L series are simplified gigabit Ethernet switches that provide all GE downlink ports and GE or 10GE uplink ports.

Introduction

CloudEngine S5735-L series switches are ideal for scenarios such as enterprise campus network access and gigabit to the desktop. Built on next-generation, high-performance hardware and the Huawei Versatile Routing Platform (VRP), CloudEngine S5735-L switches stand out with compelling features such as intelligent stack (iStack), flexible Ethernet networking, and diversified security control. They support multiple Layer 3 routing protocols and provide high performance and service processing capabilities.

Product Overview

Models and Appearances

The following models are available in the CloudEngine S5735-L series.

Models and appearances of the CloudEngine S5735-L series

| Models and Appearances | Description |
|----------------------------|---|
| CloudEngine S5735-L8T4S-A1 | 8 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply Forwarding performance: 18 Mpps Switching capacity: 24 Gbps/336 Gbps |
| CloudEngine S5735-L8P4S-A1 | 8 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply PoE+ Forwarding performance: 18 Mpps Switching capacity: 24 Gbps/336 Gbps |
| CloudEngine S5735-L8T4X-A1 | 8 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports AC power supply Forwarding performance: 72 Mpps Switching capacity: 96 Gbps/336 Gbps |
| | 8 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ portsAC power supply |

| Models and Appearances | Description |
|-----------------------------|---|
| CloudEngine S5735-L8P4X-A1 | PoE+ Forwarding performance: 72 Mpps Switching capacity: 96 Gbps/336 Gbps |
| CloudEngine S5735-L24T4S-A1 | 24 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply Forwarding performance: 42 Mpps Switching capacity: 56 Gbps/336 Gbps |
| CloudEngine S5735-L24P4S-A1 | 24 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply PoE+ Forwarding performance: 42 Mpps Switching capacity: 56 Gbps/336 Gbps |
| CloudEngine S5735-L24T4X-A1 | 24 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports AC power supply Forwarding performance: 96 Mpps Switching capacity: 128 Gbps/336 Gbps |
| CloudEngine S5735-L24T4X-D1 | 24 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports DC power supply Forwarding performance: 96 Mpps Switching capacity: 128 Gbps/336 Gbps |
| CloudEngine S5735-L24P4X-A1 | 24 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports AC power supply PoE+ Forwarding performance: 96 Mpps Switching capacity: 128 Gbps/336 Gbps |
| CloudEngine S5735-L48T4S-A1 | 48 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply Forwarding performance: 78 Mpps Switching capacity: 104 Gbps/432 Gbps |
| CloudEngine S5735-L48P4S-A1 | 48 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply PoE+ Forwarding performance: 78 Mpps Switching capacity: 104 Gbps/432 Gbps |
| CloudEngine S5735-L48T4X-A1 | 48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports AC power supply Forwarding performance: 132 Mpps Switching capacity: 176 Gbps/432 Gbps |
| CloudEngine S5735-L48P4X-A1 | 48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports AC power supply PoE+ Forwarding performance: 132 Mpps |

| Models and Appearances | Description |
|----------------------------|---|
| | Switching capacity: 176 Gbps/432 Gbps |
| CloudEngine S5735-L12T4S-A | 12 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply Forwarding performance: 24 Mpps Switching capacity: 32 Gbps/336 Gbps |
| CloudEngine S5735-L12P4S-A | 12 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply PoE+ Forwarding performance: 24 Mpps Switching capacity: 32 Gbps/336 Gbps |
| CloudEngine S5735-L24T4S-A | 24 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply Forwarding performance: 42 Mpps Switching capacity: 56 Gbps/336 Gbps |
| CloudEngine S5735-L24P4S-A | 24 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply PoE+ Forwarding performance: 42 Mpps Switching capacity: 56 Gbps/336 Gbps |
| CloudEngine S5735-L24T4X-A | 24 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports AC power supply Forwarding performance: 96 Mpps Switching capacity: 128 Gbps/336 Gbps |
| CloudEngine S5735-L24T4X-D | 24 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports DC power supply Forwarding performance: 96 Mpps Switching capacity: 128 Gbps/336 Gbps |
| CloudEngine S5735-L24P4X-A | 24 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports AC power supply PoE+ Forwarding performance: 96 Mpps Switching capacity: 128 Gbps/336 Gbps |
| CloudEngine S5735-L48T4S-A | 48 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply Forwarding performance: 78 Mpps Switching capacity: 104 Gbps/432 Gbps |
| CloudEngine S5735-L48T4X-A | 48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports AC power supply Forwarding performance: 132 Mpps Switching capacity: 176 Gbps/432 Gbps |
| | 48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ portsAC power supply |

| Models and Appearances | Description | |
|-----------------------------|--|--|
| CloudEngine S5735-L48P4X-A | PoE+ Forwarding performance: 132 Mpps Switching capacity: 176 Gbps/432 Gbps | |
| CloudEngine S5735-L32ST4X-A | 24 x GE SFP ports, 8 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports AC power supply Forwarding performance: 108 Mpps Switching capacity: 144 Gbps/432 Gbps | |
| CloudEngine S5735-L32ST4X-D | 24 x GE SFP ports, 8 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports DC power supply Forwarding performance: 108 Mpps Switching capacity: 144 Gbps/432 Gbps | |

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.

Power Supply

Technical specifications of the power supplies applicable to the CloudEngine S5735-L series

| Power Module | Technical Specifications | Applied Switch Model |
|---------------|--|----------------------------|
| | Dimensions (H x W x D): 40 mm x 90 mm x 215 mm (1.6 in. x 3.5 in. x 8.5 in.) Weight: 1.1 kg (2.43 lb) Rated input voltage range: | CloudEngine S5735-L48P4X-A |
| PAC600S56-CB | - 100 V AC to 130 V AC; 50/60 Hz | |
| 1 A0000030-OB | - 100 V AC to 240 V AC, 50/60 Hz | |
| | - 240 V DC | |
| | Maximum input voltage range: | |
| | 90 V AC to 290 V AC, 45 Hz to 66 Hz | |
| | - 190 V DC to 290 V DC | |
| | Maximum input current: | |
| | - 100 V AC to 130 V AC: 8 A | |
| | - 100 V AC to 240 V AC: 8 A | |
| | - 240 V DC: 4 A | |
| | Rated output current: | |
| | - 100 V AC to 130 V AC input: 5.36 A | |
| | - 200-240 V AC and 240 V DC input: 10.72 A | |
| | Rated output voltage: 56 V | |
| | Rated output power: | |
| | - 100 V AC to 130 V AC input: | |
| | · Total power: 300 W | |
| | 200 V AC to 240 V AC input and 240 V DC input: | |
| | · Total power: 600 W | |
| | Hot swap: Supported | |

| Power Module | Technical Specifications | Applied Switch Model |
|---------------|--|----------------------------|
| PAC1000S56-DB | Dimensions (H x W x D): 40 mm x 90 mm x 215 mm (1.6 in. x 3.5 in. x 8.5 in.) Weight: 1.1 kg (2.43 lb) Rated input voltage range: - 100 V AC to 130 V AC, 50/60 Hz - 200 V AC to 240 V AC, 50/60 Hz - 240 V DC Maximum input voltage range: - 90 V AC to 290 V AC, 45 Hz to 65 Hz - 190 V DC to 290 V DC Input current: - 100 V AC to 130 V AC: 12 A - 200 V AC to 240 V AC: 8 A - 240 V DC: 8 A Maximum output current: - 100 V AC to 130 V AC input: 16.08 A - 200 V AC to 240 V AC input and 240 V DC input: 17.86 A Maximum output power: - Total power: 900 W (100 V AC to 130 V AC input)/1000 W (200 V AC to 240 V AC input and 240 V DC input) | CloudEngine S5735-L48P4X-A |

CloudEngine S5735-L48P4X-A is a PoE switch. It has one power module slot, which can have a 1000 W PoE power module installed.

The following table lists its power supply configurations.

Power supply configurations of CloudEngine S5735-L48P4X-A

| Power Module | Available PoE Power | Maximum Number of Ports (Fully Loaded) |
|--------------------------------|---------------------|---|
| 1000 W AC (220 V) 1000 W DC | 874 W | 802.3af (15.4 W per port): 48802.3at (30 W per port): 29 |
| 1000 W AC (110 V) | 779 W | 802.3af (15.4 W per port): 48802.3at (30 W per port): 25 |
| 600 W AC (220 V) | 494 W | 802.3af (15.4 W per port): 32802.3at (30 W per port): 16 |
| 600 W AC (110 V) | 209 W | 802.3af (15.4 W per port): 13802.3at (30 W per port): 7 |

Power supply configurations of CloudEngine S5735-L48P4X-A1

| Power Module | Available PoE Power | Maximum Number of Ports (Fully Loaded) |
|--------------------------|---------------------|--|
| Built-in AC Power Module | 380 W | • 802.3af (15.4 W per port): 24 |
| | | 802.3at (30 W per port): 12 |

Power supply configurations of CloudEngine S5735-L48P4S-A1

| Power Module | Available PoE Power | Maximum Number of Ports (Fully Loaded) |
|--------------------------|---------------------|--|
| Built-in AC Power Module | 380 W | • 802.3af (15.4 W per port): 24 |
| | | 802.3at (30 W per port): 12 |

Power supply of CloudEngine S5735-L24P4X-A

| Power Module | Available PoE Power | Maximum Number of Ports (Fully Loaded) |
|--------------------------|---------------------|--|
| Built-in AC Power Module | 380 W | • 802.3af (15.4 W per port): 24 |
| | | 802.3at (30 W per port): 12 |

Power supply of CloudEngine S5735-L24P4X-A1

| Power Module | Available PoE Power | Maximum Number of Ports (Fully Loaded) |
|--------------------------|---------------------|---|
| Built-in AC Power Module | 380 W | 802.3af (15.4 W per port): 24802.3at (30 W per port): 12 |

Power supply of CloudEngine S5735-L24P4S-A

| Power Module | Available PoE Power | Maximum Number of Ports (Fully Loaded) |
|--------------------------|---------------------|---|
| Built-in AC Power Module | 380 W | 802.3af (15.4 W per port): 24802.3at (30 W per port): 12 |

Power supply of CloudEngine S5735-L24P4S-A1

| Power Module | Available PoE Power | Maximum Number of Ports (Fully Loaded) |
|--------------------------|---------------------|---|
| Built-in AC Power Module | 380 W | 802.3af (15.4 W per port): 24802.3at (30 W per port): 12 |

Power supply of CloudEngine S5735-L12P4S-A

| Power Module | Available PoE Power | Maximum Number of Ports (Fully Loaded) |
|--------------------------|---------------------|--|
| Built-in AC Power Module | 360 W | 802.3af (15.4 W per port): 12 |
| | | 802.3at (30 W per port): 12 |

Power supply of CloudEngine S5735-L8P4X-A1

| Power Module | Available PoE Power | Maximum Number of Ports (Fully Loaded) |
|--------------------------|---------------------|--|
| Built-in AC Power Module | 124 W | • 802.3af (15.4 W per port): 8 |
| | | • 802.3at (30 W per port): 4 |

Power supply of CloudEngine S5735-L8P4S-A1

| Power Module | Available PoE Power | Maximum Number of Ports (Fully Loaded) |
|--------------------------|---------------------|--|
| Built-in AC Power Module | 124 W | • 802.3af (15.4 W per port): 8 |
| | | 802.3at (30 W per port): 4 |

Product Features and Highlights

Flexible Ethernet Networking

- In addition to supporting traditional Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), and Multiple Spanning Tree Protocol (MSTP), CloudEngine S5735-L is also designed with Huawei-developed Smart Ethernet Protection (SEP) technology and the industry's latest Ethernet Ring Protection Switching (ERPS) technology. SEP is a ring protection protocol specific to the Ethernet link layer, and applies to various ring network topologies, such as open ring topology, closed ring topology, and cascading ring topology. This protocol is reliable, easy to maintain, and implements fast protection switching within 50 ms. ERPS is defined in ITU-T G.8032, and it implements millisecond-level protection switching based on traditional Ethernet MAC and bridging functions.
- CloudEngine S5735-L supports Smart Link, which implements backup of uplinks. One CloudEngine S5735-L switch can connect to multiple aggregation switches through multiple links, significantly improving reliability of access devices.
- CloudEngine S5735-L supports Ethernet OAM (IEEE 802.3ah/802.1ag) to fast-detect link faults.

Diversified Security Control

- CloudEngine S5735-L supports 802.1X authentication, MAC address authentication, and hybrid authentication on a per port basis, as well as Portal authentication on a per VLANIF interface basis, and implements dynamic policy delivery (VLAN, QoS, and ACL) to users.
- CloudEngine S5735-L provides a series of mechanisms to defend against DoS attacks and user-targeted attacks. DoS attacks are targeted at switches and include SYN flood, Land, Smurf, and ICMP flood attacks. User-targeted attacks include bogus DHCP server attacks, IP/MAC address spoofing, DHCP request flood, and changing of the DHCP CHADDR value.
- CloudEngine S5735-L sets up and maintains a DHCP snooping binding table, and discards the packets that do not match the table entries. The DHCP snooping trusted port feature ensures that users connect only to the authorized DHCP server.
- CloudEngine S5735-L supports strict ARP learning. This feature prevents ARP spoofing attackers from exhausting ARP entries so that users can connect to the Internet normally.

Easy Operation and Maintenance

- CloudEngine S5735-L supports Huawei Easy Operation, a solution that provides zero-touch deployment, replacement of faulty devices without additional configuration, USB-based deployment*, batch device configuration, and batch remote upgrade. The Easy Operation solution facilitates device deployment, upgrade, service provisioning, and other management and maintenance operations, and also greatly reduces O&M costs. CloudEngine S5735-L can be managed and maintained using Simple Network Management Protocol (SNMP) V1, V2, and V3, Command Line Interface (CLI), web-based network management system, or Secure Shell (SSH) V2.0. Additionally, it supports remote network monitoring (RMON), multiple log hosts, port traffic statistics collection, and network quality analysis, paving the way for network optimization and reconstruction.
- CloudEngine S5735-L supports the EasyDeploy function. Specifically, the Commander collects the topology information of the downstream clients and saves client startup information based on the topology. Clients can be replaced without configuration. Configuration and scripts can be delivered to clients in batches. In addition, the configuration delivery result can be queried. The Commander can also collect and display power consumption information on the entire network.
- CloudEngine S5735-L can use the GARP VLAN Registration Protocol (GVRP) to implement VLAN dynamic distribution, registration, and attribute propagation. GVRP reduces manual configuration workload and ensures correct configuration.
- CloudEngine S5735-L supports MUX VLAN, which involves a principal VLAN and multiple subordinate VLANs. Subordinate VLANs are classified into group VLANs and separate VLANs. Ports in the principal VLAN can communicate with ports in subordinate VLANs. Ports in a subordinate group VLAN can communicate with each other, whereas ports in a subordinate separate VLAN cannot communicate with each other. CloudEngine S5735-L also supports VLAN Central Management Protocol (VCMP) and VLAN-Based Spanning Tree (VBST) protocol.

Note: Only those switches with USB ports can USB-based deployment.

iStack

- CloudEngine S5735-L supports intelligent stack (iStack). This technology combines multiple switches into a logical switch. Member switches in a stack implement redundancy backup to improve device reliability and use inter-device link aggregation to improve link reliability.
- iStack provides high network scalability. You can increase ports, bandwidth, and processing capacity of a stack by simply adding member switches to the stack.
- iStack also simplifies device configuration and management. After a stack is set up, multiple physical switches are virtualized into one logical device. You can log in to any member switch in the stack to manage all the member switches in the stack. CloudEngine S5735-L support stacking through electrical ports.

Note:Mixed stacking between CloudEngine S5735-L-A/D and CloudEngine S5735-L-A1/D1 is not supported, and the models of BOM(98011295-001,98011284-001,98011321-001,98011306-001) can't support iStack.

Excellent Network Traffic Analysis

• CloudEngine S5735-L supports the sFlow function. It uses a method defined in the sFlow standard to sample traffic passing through it and sends sampled traffic to the collector in real time. The collected traffic statistics are used to generate statistical reports, helping enterprises maintain their networks.

PoE Function

- **Perpetual PoE**: When a PoE switch is abnormal Power-off or the software version is upgraded, the power supply to PDs is not interrupted. This capability ensures that PDs are not powered off during the switch reboot.
- Fast PoE: PoE switches can supply power to PDs within seconds after they are powered on. This is different from common switches that generally take 1 to 3 minutes to start to supply power to PDs. When a PoE switch reboots due to a power failure, the PoE switch continues to supply power to the PDs immediately after being powered on without waiting until it finishes reboot. This greatly shortens the power failure time of PDs.

Intelligent O&M

- CloudEngine S5735-L provides telemetry technology to collect device data in real time and send the data to Huawei campus network analyzer CampusInsight. The CampusInsight analyzes network data based on the intelligent fault identification algorithm, accurately displays the real-time network status, effectively demarcates and locates faults in a timely manner, and identifies network problems that affect user experience, accurately guaranteeing user experience.
- CloudEngine S5735-L supports a variety of intelligent O&M features for audio and video services, including the enhanced Media Delivery Index (eMDI). With this eDMI function, the switch can function as a monitored node to periodically conduct statistics and report audio and video service indicators to the CampusInsight platform. In this way, the CampusInsight platform can quickly demarcate audio and video service quality faults based on the results of multiple monitored nodes.

Intelligent Upgrade

- CloudEngine S5735-L supports the intelligent upgrade feature. Specifically, CloudEngine S5735-L obtains the version upgrade path and downloads the newest version for upgrade from the Huawei Online Upgrade Platform (HOUP). The entire upgrade process is highly automated and achieves one-click upgrade. In addition, preloading the version is supported, which greatly shortens the upgrade time and service interruption time.
- The intelligent upgrade feature greatly simplifies device upgrade operations and makes it possible for the customer to upgrade the version independently. This greatly reduces the customer's maintenance costs. In addition, the upgrade policies on the HOUP platform standardize the upgrade operations, which greatly reduces the risk of upgrade failures.

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).

OPS

• CloudEngine S5735-L supports Open Programmability System (OPS), an open programmable system based on the Python language. IT administrators can program the O&M functions of a CloudEngine S5735-L switch through Python scripts to quickly innovate functions and implement intelligent O&M.

Licensing

CloudEngine S5735-L supports both the traditional feature-based licensing mode and the latest Huawei IDN One Software (N1 mode for short) licensing mode. The N1 mode is ideal for deploying Huawei CloudCampus Solution in the on-premises scenario, as it greatly enhances the customer experiences in purchasing and upgrading software services with simplicity.

Software Package Features in N1 Mode

| Switch Functions | N1 Basic Software | N1 Foundation Software Package | N1 Advanced Software Package |
|--|----------------------|-----------------------------------|------------------------------------|
| Basic network functions: | V | \checkmark | √ |
| Layer 2 functions, IPv4, IPv6, SVF, and others | | | |
| Note: For details, see the Service Features | | | |
| Basic network automation based on the iMaster NCE-Campus: | × | V | V |
| Basic automation: Plug-and-play | | | |
| Basic monitoring: Application visualization | | | |
| NE management: Image and topology management and discovery | | | |
| Advanced network automation and intelligent O&M: | × | × | √ |
| User access authentication and CampusInsight basic functions | | | |

Note: Only V200R019C10 and later versions can support N1 mode.

Product Specifications

Functions and Features

Function and feature metrics for the CloudEngine S5735-L series

| Function and Featu | re | Description | CloudEngines S5735-L |
|--------------------|-----------------|--|-------------------------|
| Ethernet features | Ethernet basics | Full-duplex, half-duplex, and auto-negotiation | Yes |
| | | Rate auto-negotiation on an interface | Yes |
| | | Auto MDI and MDI-X | Yes |
| | | Flow control on an interface | Yes |
| | | Jumbo frames | Yes |
| | | Link aggregation | Yes |
| | | Load balancing among links of a trunk | Yes |
| | | Transparent transmission of Layer 2 protocol | Yes |

| Function and Feature | Description | CloudEngines S5735-L |
|----------------------|--|-------------------------|
| | packets | |
| | Device Link Detection Protocol (DLDP) | Yes |
| | Link Layer Discovery Protocol (LLDP) | Yes |
| | Link Layer Discovery Protocol-Media Endpoint Discovery (LLDP-MED) | Yes |
| | Interface isolation | Yes |
| | Broadcast traffic suppression on an interface | Yes |
| | Multicast traffic suppression on an interface | Yes |
| | Unknown unicast traffic suppression on an interface | Yes |
| | VLAN broadcast traffic suppression | Yes |
| | VLAN multicast traffic suppression | Yes |
| | VLAN unknown unicast traffic suppression | Yes |
| VLAN | VLAN specification | 4094 |
| | VLANIF interface specification | 1024 |
| | Access mode | Yes |
| | Trunk mode | Yes |
| | Hybrid mode | Yes |
| | QinQ mode | Yes |
| | Default VLAN | Yes |
| | VLAN assignment based on interfaces | Yes |
| | VLAN assignment based on protocols | Yes |
| | VLAN assignment based on IP subnets | Yes |
| | VLAN assignment based on MAC addresses | Yes |
| | VLAN assignment based on MAC address + IP address | Yes |
| | VLAN assignment based on MAC address + IP address + interface number | Yes |
| | Adding double VLAN tags to packets based on interfaces | Yes |
| | VLAN mapping | Yes |
| | Selective QinQ | Yes |
| | MUX VLAN | Yes |
| | Voice VLAN | Yes |
| | Guest VLAN | Yes |
| GVRP | GARP | Yes |

| Function and Featu | re | Description | CloudEngines S5735-L |
|--------------------|--------------------|--|-------------------------|
| | | GVRP | Yes |
| | VCMP | VCMP | Yes |
| | MAC | MAC address | 32896(MAX) |
| | | Automatic learning of MAC addresses | Yes |
| | | Automatic aging of MAC addresses | Yes |
| | | Static, dynamic, and blackhole MAC address entries | Yes |
| | | Interface-based MAC address learning limiting | Yes |
| | | Sticky MAC | Yes |
| | | MAC address flapping detection | Yes |
| | | MAC address spoofing defense | Yes |
| | | Port bridge | Yes |
| | ARP | Static ARP | Yes |
| | | Dynamic ARP | Yes |
| | | ARP entry | 4096(MAX) |
| | | ARP aging detection | Yes |
| | | Intra-VLAN proxy ARP | Yes |
| | | Routed proxy ARP | Yes |
| Ethernet loop | MSTP | STP | Yes |
| protection | | RSTP | Yes |
| | | MSTP | Yes |
| | | VBST | Yes |
| | | BPDU protection | Yes |
| | | Root protection | Yes |
| | | Loop protection | Yes |
| | | Defense against TC BPDU attacks | Yes |
| | Loopback detection | Loop detection on an interface | Yes |
| | SEP | SEP | Yes |
| | Smart Link | Smart Link | Yes |
| | | Smart Link multi-instance | Yes |
| | | Monitor Link | Yes |
| | RRPP | RRPP | Yes |
| | | Single RRPP ring | Yes |
| | | Tangent RRPP ring | Yes |

| Function and Featu | re | Description | CloudEngines S5735-L |
|----------------------|-------------------|---|-------------------------|
| | | Intersecting RRPP ring | Yes |
| | | Hybrid networking of RRPP rings and other ring networks | Yes |
| | ERPS | G.8032 v1 | Yes |
| | | G.8032 v2 | Yes |
| | | ERPS semi-ring topology | Yes |
| | | ERPS closed-ring topology | Yes |
| IPv4/IPv6 forwarding | IPv4 and unicast | IPv4 static routing | Yes |
| | routing | VRF | Yes |
| | | DHCP client | Yes |
| | | DHCP server | Yes |
| | | DHCP relay | Yes |
| | | Routing policies | Yes |
| | | IPv4 routes | 4096(MAX) |
| | | RIPv1 | Yes |
| | | RIPv2 | Yes |
| | | OSPF | Yes |
| | | Policy-based routing (PBR) | Yes |
| | Multicast routing | IGMPv1/v2/v3 | Yes |
| | features | PIM-DM | Yes |
| | | PIM-SM | Yes |
| | | MSDP | Yes |
| | | IPv4 multicast routes | 1500(MAX) |
| | | IPv6 multicast routes | 1500(MAX) |
| | | Multicast routing policies | Yes |
| | | RPF | Yes |
| | IPv6 features | IPv6 protocol stack | Yes |
| | | ND | Yes |
| | | ND entry | 1024(MAX) |
| | | ND snooping | Yes |
| | | DHCPv6 snooping | Yes |
| | | RIPng | Yes |
| | | DHCPv6 server | Yes |
| | | DHCPv6 relay | Yes |

| Function and Featu | ıre | Description | CloudEngines S5735-L |
|--------------------|------------------|---|-------------------------|
| | | OSPFv3 | Yes |
| | | IPv6 routes | 1024(MAX) |
| | | VRRP6 | Yes |
| | | MLDv1/v2 | Yes |
| | | PIM-DM for IPv6 | Yes |
| | | PIM-SM for IPv6 | Yes |
| Layer 2 multicast | - | IGMPv1/v2/v3 snooping | Yes |
| features | | IGMP snooping proxy | Yes |
| | | MLD snooping | Yes |
| | | Multicast traffic suppression | Yes |
| | | Inter-VLAN multicast replication | Yes |
| Device reliability | Stacking | Service interface-based stacking | Yes |
| | | Maximum number of stacked devices | 9 |
| | | Stack bandwidth (Bidirectional) | 80Gbps(MAX) |
| | VRRP | VRRP standard protocol | Yes |
| Ethernet OAM | EFM (802.3ah) | Automatic discovery of links | Yes |
| | | Link fault detection | Yes |
| | | Link troubleshooting | Yes |
| | | Remote loopback | Yes |
| | CFM (802.1ag) | Software-level CCM | Yes |
| | | 802.1ag MAC ping | Yes |
| | | 802.1ag MAC trace | Yes |
| | OAM association | Association between 802.1ag and 802.3ah | Yes |
| | Y.1731 | Unidirectional delay and jitter measurement | Yes |
| | | Bidirectional delay and jitter measurement | Yes |
| QoS features | Traffic | Traffic classification based on ACLs | Yes |
| | classification | Configuring traffic classification priorities | Yes |
| | | Matching the simple domains of packets | Yes |
| | Traffic behavior | Traffic filtering | Yes |
| | | Traffic policing (CAR) | Yes |
| | | Modifying the packet priorities | Yes |
| | | Modifying the simple domains of packets | Yes |
| | | Modifying the packet VLANs | Yes |
| | Traffic shaping | Traffic shaping on an egress interface | Yes |

| Function and Featu | ire | Description | CloudEngines S5735-L |
|--------------------|--------------------------|--|-------------------------|
| | | Traffic shaping on queues on an interface | Yes |
| | Congestion avoidance | Tail drop | Yes |
| | Congestion | Priority Queuing (PQ) | Yes |
| | management | Weighted Deficit Round Robin (WDRR) | Yes |
| | | PQ+WDRR | Yes |
| | | Weighted Round Robin (WRR) | Yes |
| | | PQ+WRR | Yes |
| ACL | Packet filtering at | Number of rules per IPv4 ACL | 2K |
| | Layer 2 to Layer 4 | Number of rules per IPv6 ACL | 2K |
| | | Basic IPv4 ACL | Yes |
| | | Advanced IPv4 ACL | Yes |
| | | Basic IPv6 ACL | Yes |
| | | Advanced IPv6 ACL | Yes |
| | | Layer 2 ACL | Yes |
| | | User-defined ACL | Yes |
| Configuration and | Login and | Command line interface (CLI)-based configuration | Yes |
| maintenance | configuration management | Console terminal service | Yes |
| | | Telnet terminal service | Yes |
| | | SSH v1.5 | Yes |
| | | SSH v2.0 | Yes |
| | | SNMP-based NMS for unified configuration | Yes |
| | | Web page-based configuration and management | Yes |
| | | EasyDeploy (client) | Yes |
| | | SVF | Yes |
| | | Cloud management | Yes |
| | | OPS | Yes |
| | File system | Directory and file management | Yes |
| | | File upload and download | Yes |
| | Monitoring and | eMDI | Yes |
| | maintenance | Hardware monitoring | Yes |
| | | Log information output | Yes |
| | | Alarm information output | Yes |
| | | Debugging information output | Yes |

| Function and Feat | ture | Description | CloudEngines S5735-L |
|-------------------|----------------------|--|-------------------------|
| | | Port mirroring | Yes |
| | | Flow mirroring | Yes |
| | | Remote mirroring | Yes |
| | | Energy saving | Yes |
| | Version upgrade | Version upgrade | Yes |
| | | Version rollback | Yes |
| Security | ARP security | ARP packet rate limiting | Yes |
| | | ARP anti-spoofing | Yes |
| | | Association between ARP and STP | Yes |
| | | Dynamic ARP Inspection (DAI) | Yes |
| | | Static ARP Inspection (SAI) | Yes |
| | | Egress ARP Inspection (EAI) | Yes |
| | IP security | ICMP attack defense | Yes |
| | | IPSG for IPv4 | Yes |
| | | IPSG user capacity | 1K |
| | | IPSG for IPv6 | Yes |
| | | IPSGv6 user capacity | 512 |
| | Local attack defense | CPU attack defense | Yes |
| | MFF | MFF | Yes |
| | DHCP snooping | DHCP snooping | Yes |
| | | Option 82 function | Yes |
| | | Dynamic rate limiting for DHCP packets | Yes |
| | Attack defense | Defense against malformed packet attacks | Yes |
| | | Defense against UDP flood attacks | Yes |
| | | Defense against TCP SYN flood attacks | Yes |
| | | Defense against ICMP flood attacks | Yes |
| | | Defense against packet fragment attacks | Yes |
| | | Local URPF | Yes |
| User access and | AAA | Local authentication | Yes |
| authentication | | Local authorization | Yes |
| | | RADIUS authentication | Yes |
| | | RADIUS authorization | Yes |
| | | RADIUS accounting | Yes |

| Function and Featu | re | Description | CloudEngines S5735-L |
|--------------------|--------------------|---|-------------------------|
| | | HWTACACS authentication | Yes |
| | | HWTACACS authorization | Yes |
| | | HWTACACS accounting | Yes |
| | NAC | 802.1X authentication | Yes |
| | | MAC address authentication | Yes |
| | | Portal authentication | Yes |
| | | Hybrid authentication | Yes |
| | Policy association | Functioning as the access device | Yes |
| Network management | - | Ping | Yes |
| | | Tracert | Yes |
| | | NQA | Yes |
| | | NTP | Yes |
| | | sFlow | Yes |
| | | SNMP v1 | Yes |
| | | SNMP v2c | Yes |
| | | SNMP v3 | Yes |
| | | нттр | Yes |
| | | HTTPS | Yes |
| | | RMON | Yes |
| | | NETCONF/YANG | Yes |
| Interoperability | - | VLAN-based Spanning Tree (VBST) | Yes |
| | | Link-type Negotiation Protocol (LNP) | Yes |
| | | VLAN Central Management Protocol (VCMP) | Yes |

MOTE

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Hardware Specifications

Hardware specifications of CloudEngine S5735-L8T4S-A1/-L8P4S-A1/-L8T4X-A1/-L8P4X-A1/-L24T4S-A1 models

| Item | | CloudEngine S5735- L8T4S-A1 | CloudEngine S5735- L8P4S-A1 | CloudEngin e S5735- L8T4X-A1 | CloudEngin e S5735- L8P4X-A1 | CloudEngin e S5735- L24T4S-A1 |
|------------------------|---------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| Physical specification | Dimensions (H x W x D) | 43.6 mm x 250 mm x 180 mm | 43.6 mm x 300 mm x 220 mm | 43.6 mm x 250 mm x 180 mm | 43.6 mm x 300 mm x 220 mm | 43.6 mm x 442 mm x 220 mm |
| S | Chassis height | 1 U | 1 U | 1 U | 1 U | 1U |
| | Chassis weight (including | 2.02 kg | 3.17 kg | 2.08 kg | 3.17 kg | 3.34 kg |

| Item | | CloudEngine S5735- L8T4S-A1 | CloudEngine S5735- L8P4S-A1 | CloudEngin e S5735- L8T4X-A1 | CloudEngin e S5735- L8P4X-A1 | CloudEngin e S5735- L24T4S-A1 |
|---------------------|---|--|---|--|---|--|
| | packaging) | | | | | |
| Fixed port | GE port | 8 | 8(PoE+) | 8 | 8(PoE+) | 24 |
| · | GE SFP pot | 4 | 4 | NA | NA | 4 |
| | 10GE port | NA | NA | 4 | 4 | NA |
| Management port | Console port (RJ45) | Supported | Supported | Supported | Supported | Supported |
| | USB Port | NA | NA | USB 2.0 | USB 2.0 | NA |
| CPU | Frequency | 1000 MHz | 1000 MHz | 1000 MHz | 1000 MHz | 1000 MHz |
| | Core | 2 | 2 | 2 | 2 | 2 |
| Storage | Memory (RAM) | 512 MB | 512 MB | 512 MB | 512 MB | 512 MB |
| | Flash memory | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users |
| Power supply | Power supply type | Built-in AC | Built-in AC | Built-in AC | Built-in AC | Built-in AC |
| system | Rated voltage range | AC input : 100 V AC to 240 V AC, 50/60 Hz | AC input : 100 V AC to 240 V AC, 50/60 Hz | 100 V AC to 240 V AC, 50/60 Hz | AC input : 100 V AC to 240 V AC, 50/60 Hz | AC input : 100 V AC to 240 V AC, 50/60 Hz |
| | Maximum voltage range | AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz | AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz | AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz | AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz | AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz |
| | Maximum input current | 0.8 A | 3 A | 0.8 A | 3 A | 2 A |
| | Maximum power consumption of the device | 26.3 W | 38.6 W (without PD) 162.6 W (with PD, PD power consumptio n of 124 W) | 26.3 W | 39.1 W (without PD) 163.1 W (with PD, PD power consumptio n of 124 W) | 47.6 W |
| | Power consumption in the case of 30% traffic load ¹ | 21.2 W | 28.4 W | 21.1 W | 28.7 W | 32.7 W |
| | Power consumption in the case of 100% traffic load ¹ | 21.5 W | 28.6 W | 21.4 W | 28.9 W | 33.6 W |
| Heat dissipation | Heat dissipation | Air-cooled heat dissipation and | Air-cooled heat dissipation and | Air-cooled heat dissipation and | Air-cooled heat dissipation and | Air-cooled heat dissipation and |

| Item | | CloudEngine S5735- L8T4S-A1 | CloudEngine S5735- L8P4S-A1 | CloudEngin e S5735- L8T4X-A1 | CloudEngin e S5735- L8P4X-A1 | CloudEngin e S5735- L24T4S-A1 |
|------------------------|--|---|---|--|--|--|
| system | mode | intelligent fan speed adjustment | intelligent fan speed adjustment | intelligent fan speed adjustment | intelligent fan speed adjustment | intelligent fan speed adjustment |
| | Number of fan modules | 1 | 1 | 1 | 1 | 1 |
| | Airflow | Air flows in from the left side and front panel, exhausts from the right panel | Air flows in from the left side and front panel, exhausts from the right panel | Air flows in from the left side and front panel, exhausts from the right panel | Air flows in from the left side and front panel, exhausts from the right panel | Air flows in from the left side and front panel, exhausts from the right panel |
| | Maximum heat dissipation of the device (BTU/hour) | 101.34 | Without PDs: 131.71With PDs: 554.81 | 103.1 | Without PDs: 133.41With PDs: 556.51 | 162.42 |
| Environment parameters | Long-term operating temperature | O-1800 m altitude: - 5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | O-1800 m altitude: - 5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | O-1800 m altitude: - 5°C to +50°C 1800-5000 m altitude: The operating temperatur e reduces by 1°C every time the altitude increases by 220 m. | O-1800 m altitude: - 5°C to +50°C 1800-5000 m altitude: The operating temperatur e reduces by 1°C every time the altitude increases by 220 m. | O-1800 m altitude: - 5°C to +50°C 1800-5000 m altitude: The operating temperatur e reduces by 1°C every time the altitude increases by 220 m. |
| | Short-term operating temperature ³ | NA | NA | NA | NA | NA |
| | Storage temperature | -40°C to +70°C | -40°C to +70°C | -40°C to +70°C | -40°C to +70°C | -40°C to +70°C |
| | Relative humidity | 5%-95%(non- condensing) | 5%-95%(non- condensing) | 5%-95%(non- condensing) | 5%-95%(non- condensing) | 5%-95%(non- condensing) |
| | Operating altitude | 5000 m | 5000 m | 5000 m | 5000 m | 5000 m |
| | Noise under normal temperature (sound power) | 43 dB(A) | 42.2 dB(A) | 43 dB(A) | 42.2 dB(A) | 39 dB(A) |
| | Noise under high temperature (sound power) | 68 dB(A) | 70.2 dB(A) | 68 dB(A) | 70.2 dB(A) | 73 dB(A) |
| | Noise under normal temperature | 31.5 dB(A) | 30.5 dB(A) | 31.5 dB(A) | 30.5 dB(A) | 27.2 dB(A) |

| Item | | CloudEngine S5735- L8T4S-A1 | CloudEngine S5735- L8P4S-A1 | CloudEngin e S5735- L8T4X-A1 | CloudEngin e S5735- L8P4X-A1 | CloudEngin e S5735- L24T4S-A1 |
|---------------|---|---|---|---|---|---|
| | (sound pressure) | | | | | |
| | Surge protection specification (RJ45 service port) | ±7 kV in common mode |
| | Surge protection specification (power port) | Differential mode: ± 6 kV Common mode: ±6 | Differential mode: ± 6 kV Common mode: ±6 | Differential mode: ± 6 kV Common mode: ±6 | Differential mode: ± 6 kV Common mode: ±6 | Differential mode: ± 6 kV Common mode: ±6 |
| Poliobility | MTBF (year) ² | 71.82 | 66.56 | kV 67.07 | kV 62.46 | 66.16 |
| Reliability | WITEF (year) | 71.02 | 00.00 | 67.07 | 02.40 | 00.10 |
| | MTTR (hour) | 2 | 2 | 2 | 2 | 2 |
| | Availability | > 0.99999 | > 0.99999 | > 0.99999 | > 0.99999 | > 0.99999 |
| Certification | | EMC certification Safety certification Manufacturi ng certification | EMC certification Safety certification Manufacturi ng certification | EMC certification Safety certification Manufactur ing certification | EMC certification Safety certification Manufactur ing certification | EMC certification Safety certification Manufactur ing certification |

Hardware specifications of CloudEngine S5735-L24P4S-A1/-L24T4X-A1/D1,-L24P4X-A1 models

| Item | | CloudEngine S5735-L24P4S- A1 | CloudEngine S5735-L24T4X- A1 | CloudEngine S5735-L24T4X-D1 | CloudEngine S5735-L24P4X- A1 |
|------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------|------------------------------------|
| Physical specification | Dimensions (H x W x D) | 43.6 mm x 442 mm x 220 mm | 43.6 mm x 442 mm x 220 mm | 43.6 mm x 442 mm x 220 mm | 43.6 mm x 442 mm x 220 mm |
| S | Chassis height | 1 U | 1 U | 1 U | 1 U |
| | Chassis weight (including packaging) | 3.91 kg | 3.48 kg | 3.28 kg | 3.93 kg |
| Fixed port | GE port | 24(PoE+) | 24 | 24 | 24(PoE+) |
| | GE SFP pot | 4 | NA | NA | NA |
| | 10GE port | NA | 4 | 4 | 4 |
| Managemen t port | Console port (RJ45) | Supported | Supported | Supported | Supported |
| | USB Port | NA | USB 2.0 | USB 2.0 | USB 2.0 |
| CPU | Frequency | 1000 MHz | 1000 MHz | 1000 MHz | 1000 MHz |
| | Core | 2 | 2 | 2 | 2 |
| Storage | Memory (RAM) | 512 MB | 512 MB | 512 MB | 512 MB |

| Item | | CloudEngine S5735-L24P4S- A1 | CloudEngine S5735-L24T4X- A1 | CloudEngine S5735-L24T4X-D1 | CloudEngine S5735-L24P4X- A1 |
|-------------------------------|---|--|--|--|---|
| | Flash memory | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users |
| Power | Power supply type | Built-in AC | Built-in AC | Built-in DC | Built-in AC |
| supply system | Rated voltage range | AC input : 100 V AC to 240 V AC, 50/60 Hz | AC input : 100 V AC to 240 V AC, 50/60 Hz | -48V DC∼-60V DC | AC input : 100 V AC to 240 V AC, 50/60 Hz |
| | Maximum voltage range | AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) | • AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz | -38.4V DC∼-72V DC | AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high- voltage DC certification) |
| | Maximum input current | 6A | 2A | 6A | 6A |
| | Maximum power consumption of the device | 53.2W(without PD) 433.2W(with PD,PD Power consumption of :380W) | 45.6 W | 37.3 W | 53.8W(without PD) 433.8W(with PD,PD Power consumption of :380W) |
| | Power consumption in the case of 30% traffic load ¹ | 41.7 W | 33.2 W | 34 W | 42.4 W |
| | Power consumption in the case of 100% traffic load ¹ | 42.3 W | 33.7 W | 34.5 W | 43 W |
| Heat dissipation system | Heat dissipation mode | Air-cooled heat dissipation and intelligent fan speed adjustment | Air-cooled heat dissipation and intelligent fan speed adjustment | Air-cooled heat dissipation and intelligent fan speed adjustment | Air-cooled heat dissipation and intelligent fan speed adjustment |
| | Number of fan modules | 2 | 1 | 1 | 2 |
| | Airflow | Air flows in from the left side and front panel, exhausts from the right panel | Air flows in from the left side and front panel, exhausts from the right panel | Air flows in from the left side and front panel, exhausts from the right panel | Air flows in from the left side and front panel, exhausts from the right panel |
| | Maximum heat dissipation of the | • Without PDs: 181.52 | 155.59 | 127.27 | • Without PDs: 183.57 |

| Item | | CloudEngine S5735-L24P4S- A1 | CloudEngine S5735-L24T4X- A1 | CloudEngine S5735-L24T4X-D1 | CloudEngine S5735-L24P4X- A1 |
|------------------------|---|--|--|--|--|
| | device (BTU/hour) | • With PDs: 1478.12 | | | • With PDs: 1480.17 |
| Environment parameters | Long-term operating temperature | 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. |
| | Short-term operating temperature ³ | 0-1800 m altitude: -5°C to +55°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | NA | NA | 0-1800 m altitude: -5°C to +55°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. |
| | Storage temperature | -40°C to +70°C | -40°C to +70°C | -40°C to +70°C | -40°C to +70°C |
| | Relative humidity | 5%-95%(non- condensing) | 5%-95%(non- condensing) | 5%-95%(non- condensing) | 5%-95%(non- condensing) |
| | Operating altitude | 5000 m | 5000 m | 5000 m | 5000 m |
| | Noise under normal temperature (sound power) | 50 dB(A) | 39 dB(A) | 39 dB(A) | 50 dB(A) |
| | Noise under high temperature (sound power) | 73 dB(A) | 73 dB(A) | 73 dB(A) | 73 dB(A) |
| | Noise under normal temperature (sound pressure) | 38.2 dB(A) | 27.2 dB(A) | 27.2 dB(A) | 38.2 dB(A) |
| | Surge protection specification (RJ45 service port) | ±7 kV in common mode | ±7 kV in common mode | ±7 kV in common mode | ±7 kV in common mode |
| | Surge protection specification | Differential | Differential | Differential mode: | Differential |

| Item | | CloudEngine S5735-L24P4S- A1 | CloudEngine S5735-L24T4X- A1 | CloudEngine S5735-L24T4X-D1 | CloudEngine S5735-L24P4X- A1 |
|---------------|---|--|--|--|--|
| | (power port) | mode: ± 6 kV • Common mode: ± 6 kV | mode: ± 6 kV • Common mode: ± 6 kV | ± 2 kV • Common mode: ± 4 kV | mode: ± 6 kV Common mode: ± 6 kV |
| Reliability | MTBF (year) ² MTTR (hour) Availability | 55.72 2 > 0.99999 | 62.05 2 > 0.99999 | 62.05 2 > 0.99999 | 52.74 2 > 0.99999 |
| Certification | 1 | EMC certification Safety certification Manufacturing certification | EMC certification Safety certification Manufacturing certification | EMC certification Safety certification Manufacturing certification | EMC certification Safety certification Manufacturing certification |

Hardware specifications of CloudEngine S5735-L48T4S-A1/-L48P4S-A1/-L48T4X-A1/-L48P4X-A1 models

| Item | | CloudEngine S5735-L48T4S- A1 | CloudEngine S5735-L48P4S- A1 | CloudEngine S5735-L48T4X- A1 | CloudEngine S5735-L48P4X- A1 |
|------------------------|--------------------------------------|--|--|--|--|
| Physical specification | Dimensions (H x W x D) | 43.6 mm x 442 mm x 220 mm |
| S | Chassis height | 1U | 1 U | 1 U | 1 U |
| | Chassis weight (including packaging) | 3.74 kg | 4.28 kg | 3.79 kg | 4.28 kg |
| Fixed port | GE port | 48 | 48(PoE+) | 48 | 48(PoE+) |
| | GE SFP pot | 4 | 4 | NA | NA |
| | 10GE port | NA | NA | 4 | 4 |
| Manageme nt port | Console port (RJ45) | Supported | Supported | Supported | Supported |
| | USB Port | NA | USB 2.0 | USB 2.0 | USB 2.0 |
| CPU | Frequency | 1000 MHz | 1000 MHz | 1000 MHz | 1000 MHz |
| | Core | 2 | 2 | 2 | 2 |
| Storage | Memory (RAM) | 512 MB | 512 MB | 512 MB | 512 MB |
| | Flash memory | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users |
| Power | Power supply type | Built-in AC | Built-in AC | Built-in AC | Built-in AC |
| supply system | Rated voltage range | AC input : 100 V AC to 240 V AC, 50/60 Hz | AC input : 100 V AC to 240 V AC, 50/60 Hz | AC input : 100 V AC to 240 V AC, 50/60 Hz | AC input : 100 V AC to 240 V AC, 50/60 Hz |
| | Maximum voltage | AC input: 90 V |

| Item | | CloudEngine S5735-L48T4S- | CloudEngine S5735-L48P4S- | CloudEngine S5735-L48T4X- | CloudEngine S5735-L48P4X- |
|-------------------------------|---|--|--|--|--|
| | range | AC to 264 V AC, 47 Hz to 63 Hz | AC to 290 V AC, 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) | AC to 264 V AC, 47 Hz to 63 Hz | AC to 290 V AC, 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) |
| | Maximum input current | 2A | 6A | 2A | 6A |
| | Maximum power consumption of the device | 50.4 W | 76.1W(without PD) 456.1W(with PD,PD Power consumption of :380W) | 51.9 W | 76.1W(without PD) 456.1W(with PD,PD Power consumption of :380W) |
| | Power consumption in the case of 30% traffic load ¹ | 43.3 W | 58.7 W | 43.2 W | 58.7 W |
| | Power consumption in the case of 100% traffic load ¹ | 43.7 W | 60.5 W | 44 W | 60.5 W |
| Heat dissipation system | Heat dissipation mode | Air-cooled heat dissipation and intelligent fan speed adjustment | Air-cooled heat dissipation and intelligent fan speed adjustment | Air-cooled heat dissipation and intelligent fan speed adjustment | Air-cooled heat dissipation and intelligent fan speed adjustment |
| | Number of fan modules | 1 | 2 | 1 | 2 |
| | Airflow | Air flows in from the left side and front panel, exhausts from the right panel | Air flows in from the left side and front panel, exhausts from the right panel | Air flows in from the left side and front panel, exhausts from the right panel | Air flows in from the left side and front panel, exhausts from the right panel |
| | Maximum heat dissipation of the device (BTU/hour) | 171.97 | Without PDs: 259.66With PDs: 1556.26 | 177.09 | Without PDs: 259.66With PDs: 1556.26 |
| Environmen t parameters | Long-term operating temperature | 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude | 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude | 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude | 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude |

| Item | | CloudEngine S5735-L48T4S- A1 | CloudEngine S5735-L48P4S- A1 | CloudEngine S5735-L48T4X- A1 | CloudEngine S5735-L48P4X- A1 |
|---------------|--|--|--|--|--|
| | | increases by 220 m. | increases by 220 m. | increases by 220 m. | increases by 220 m. |
| | Short-term operating temperature ³ | • 0-1800 m altitude: -5°C to +55°C | 0-1800 m altitude: -5°C to +55°C | 0-1800 m altitude: -5°C to +55°C | • 0-1800 m altitude: -5°C to +55°C |
| | | 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. |
| | Storage temperature | -40°C to +70°C | -40°C to +70°C | -40°C to +70°C | -40°C to +70°C |
| | Relative humidity | 5%-95%(non- condensing) | 5%-95%(non- condensing) | 5%-95%(non- condensing) | 5%-95%(non- condensing) |
| | Operating altitude | 5000 m | 5000 m | 5000 m | 5000 m |
| | Noise under normal temperature (sound power) | 48 dB(A) | 50 dB(A) | 48 dB(A) | 50 dB(A) |
| | Noise under high temperature (sound power) | 70.7 dB(A) | 73 dB(A) | 70.7 dB(A) | 73 dB(A) |
| | Noise under normal temperature (sound pressure) | 36.2 dB(A) | 38.2 dB(A) | 36.2 dB(A) | 38.2 dB(A) |
| | Surge protection specification (RJ45 service port) | ±7 kV in common mode |
| | Surge protection specification (power port) | Differential mode: ± 6 kV Common mode: ± 6 kV | Differential mode: ± 6 kV Common mode: ± 6 kV | Differential mode: ± 6 kV Common mode: ± 6 kV | Differential mode: ± 6 kV Common mode: ± 6 kV |
| Reliability | MTBF (year) ² | 56.7 | 44.9 | 53.67 | 44.03 |
| | MTTR (hour) | 2 | 2 | 2 | 2 |
| | Availability | > 0.99999 | > 0.99999 | > 0.99999 | > 0.99999 |
| Certification | | EMC certification Safety certification |
| | | Manufacturing certification | Manufacturing certification | Manufacturing certification | Manufacturing certification |

Hardware specifications of CloudEngine S5735-L12T4S-A/-L12P4S-A/-L24T4S-A/-L24P4S-A models

| Item | | CloudEngine S5735-L12T4S-A | CloudEngine S5735-L12P4S-A | CloudEngine S5735-L24T4S-A | CloudEngine S5735-L24P4S-A |
|-----------------------|--|--|--|--|--|
| Physical specificatio | Dimensions (H x W x D) | 43.6 mm x 442 mm x 220 mm |
| ns | Chassis height | 1 U | 1 U | 1 U | 1 U |
| | Chassis weight (including packaging) | 3.83 kg | 4.24 kg | 4.08 kg | 4.31 kg |
| Fixed port | GE Base-T port | 12 | 12(PoE+) | 24 | 24(PoE+) |
| | GE SFP port | 4 | 4 | 4 | 4 |
| | 10GE port | NA | NA | NA | NA |
| Manageme nt port | Console port (RJ45) | Supported | Supported | Supported | Supported |
| | USB port | USB 2.0 | USB 2.0 | USB 2.0 | USB 2.0 |
| CPU | Frequency | 1000 MHz | 1000 MHz | 1000 MHz | 1000 MHz |
| | Core | 4 | 4 | 4 | 4 |
| Storage | Memory (RAM) | 1 GB | 1 GB | 1 GB | 1 GB |
| | Flash memory | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users |
| Power | Power supply type | Built-in AC | Built-in AC | Built-in AC | Built-in AC |
| supply system | Rated voltage range | 100 V AC to 240 V AC, 50/60 Hz | 100 V AC to 240 V AC, 50/60 Hz | 100 V AC to 240 V AC, 50/60 Hz | 100 V AC to 240 V AC, 50/60 Hz |
| | Maximum voltage range | AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) | AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) | AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) | AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) |
| | Maximum input current | 2 A | 6 A | 2 A | 6 A |
| | Maximum power consumption of the device | 29 W | 49 W (without PD) 441 W (with PD, PD power consumption of 360 W) | 34 W | 53 W (without PD) 451 W (with PD, PD power consumption of 380 W) |
| | Power consumption in the case of 30% traffic load ¹ | 23 W | 38 W | 28 W | 39 W |

| Item | | CloudEngine S5735-L12T4S-A | CloudEngine S5735-L12P4S-A | CloudEngine S5735-L24T4S-A | CloudEngine S5735-L24P4S-A |
|-------------------------------|---|--|--|--|--|
| | Power consumption in the case of 100% traffic load ¹ | 25 W | 40 W | 32 W | 44 W |
| Heat dissipation system | Heat dissipation mode | Natural heat dissipation | Air-cooled heat dissipation and intelligent fan speed adjustment | Natural heat dissipation | Air-cooled heat dissipation and intelligent fan speed adjustment |
| | Number of fan modules | NA | 2 | NA | 2 |
| | Airflow | NA | Air flows in from the left side and front panel, exhausts from the right side | NA | Air flows in from the left side and front panel, exhausts from the right side |
| | Maximum heat dissipation of the device (BTU/hour) | 98.95 | without PD :167.2 with PD: 1505 | 116 | without PD :180.8 with PD: 1539 |
| Environmen t parameters | Long-term operating temperature | 0-1800 m altitude: -5°C to +45°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | O-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | 0-1800 m altitude: -5°C to +45°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | O-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. |
| | Short-term operating temperature ³ | NA | 0-1800 m altitude: -5°C to +55°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | NA | 0-1800 m altitude: -5°C to +55°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. |
| | Storage temperature | -40°C to +70°C | -40°C to +70°C | -40°C to +70°C | -40°C to +70°C |
| | Relative humidity | 5%-95%(non- condensing) | 5%-95%(non- condensing) | 5%-95%(non- condensing) | 5%-95%(non- condensing) |
| | Operating altitude | 5000 m | 5000 m | 5000 m | 5000 m |
| | Noise under normal temperature (sound power) | Silent (fan-free) | 57.7dB(A) | Silent (fan-free) | 57.7dB(A) |
| | Noise under high temperature (sound | Silent (fan-free) | 74.2dB(A) | Silent (fan-free) | 74.2dB(A) |

| Item | | CloudEngine S5735-L12T4S-A | CloudEngine S5735-L12P4S-A | CloudEngine S5735-L24T4S-A | CloudEngine S5735-L24P4S-A |
|---------------|--|--|--|--|--|
| | power) | | | | |
| | Noise under normal temperature (sound pressure) | Silent (fan-free) | 43dB(A) | Silent (fan-free) | 43dB(A) |
| | Surge protection specification (RJ45 service port) | ±7 kV in common mode |
| | Surge protection specification (power port) | Differential mode: ± 6 kV Common mode: ±6 kV | Differential mode: ± 6 kV Common mode: ±6 kV | Differential mode: ± 6 kV Common mode: ±6 kV | Differential mode: ± 6 kV Common mode: ±6 kV |
| Reliability | MTBF (year) ² | 98.6 | 85.52 | 111.94 | 92.2 |
| | MTTR (hour) | 1.22 | 1.4 | 1.07 | 1.3 |
| | Availability | > 0.99999 | > 0.99999 | > 0.99999 | > 0.99999 |
| Certification | | EMC certification Safety certification Manufacturing certification | EMC certification Safety certification Manufacturing certification | EMC certification Safety certification Manufacturing certification | EMC certification Safety certification Manufacturing certification |

Hardware specifications of CloudEngine S5735-L24T4X-A/D-L24P4X-A/-L48T4S-A models

| Item | | CloudEngine S5735-L24T4X-A | CloudEngine S5735-L24T4X-D | CloudEngine S5735-L24P4X-A | CloudEngine S5735-L48T4S-A |
|-----------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Physical specificatio | Dimensions (H x W x D) | 43.6 mm x 442 mm x 220 mm |
| ns | Chassis height | 1 U | 1 U | 1 U | 1 U |
| | Chassis weight (including packaging) | 4 kg | 4 kg | 4.31 kg | 4.42 kg |
| Fixed port | GE Base-T port | 24 | 24 | 24(PoE+) | 48 |
| | GE SFP port | NA | NA | NA | 4 |
| | 10GE port | 4 | 4 | 4 | NA |
| Manageme nt port | Console port (RJ45) | Supported | Supported | Supported | Supported |
| | USB port | USB 2.0 | USB 2.0 | USB 2.0 | USB 2.0 |
| CPU | Frequency | 1000 MHz | 1000 MHz | 1000 MHz | 1000 MHz |
| | Core | 4 | 4 | 4 | 4 |
| Storage | Memory (RAM) | 1 GB | 1 GB | 1 GB | 1 GB |
| | Flash memory | Hardware: 512 MB, of which 306 MB is | Hardware: 512 MB, of which 306 MB is | Hardware: 512 MB, of which 306 MB is | Hardware: 512 MB, of which 306 MB is |

| Item | | CloudEngine S5735-L24T4X-A | CloudEngine S5735-L24T4X-D | CloudEngine S5735-L24P4X-A | CloudEngine S5735-L48T4S-A |
|-------------------------------|---|--|--|--|--|
| | | available for users | available for users | available for users | available for users |
| Power | Power supply type | Built-in AC | Built-in DC | Built-in AC | Built-in AC power |
| supply system | Rated voltage range | 100 V AC to 240 V AC, 50/60 Hz | -48V DC∼-60V DC | 100 V AC to 240 V AC, 50/60 Hz | 100 V AC to 240 V AC, 50/60 Hz |
| | Maximum voltage range | AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) | -38.4V DC∼-72V DC | AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) | AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) |
| | Maximum input current | 2 A | 2 A | 6 A | 2 A |
| | Maximum power consumption of the device | 43 W | 43 W | 56 W (without PD) 458 W (with PD, PD power consumption of 380 W) | 53 W |
| | Power consumption in the case of 30% traffic load ¹ | 27 W | 27 W | 43 W | 37 W |
| | Power consumption in the case of 100% traffic load ¹ | 32 W | 32 W | 47 W | 46 W |
| Heat dissipation system | Heat dissipation mode | Air-cooled heat dissipation and intelligent fan speed adjustment | Air-cooled heat dissipation and intelligent fan speed adjustment | Air-cooled heat dissipation and intelligent fan speed adjustment | Air-cooled heat dissipation and intelligent fan speed adjustment |
| | Number of fan modules | 1 | 1 | 2 | 1 |
| | Airflow | Air flows in from the left side and front panel, exhausts from the right side | Air flows in from the left side and front panel, exhausts from the right side | Air flows in from the left side and front panel, exhausts from the right side | Air flows in from the left side and front panel, exhausts from the right side |
| | Maximum heat dissipation of the device (BTU/hour) | 146.7 | 146.7 | without PD :191.1 with PD: 1563 | 180.8 |
| Environmen t parameters | Long-term operating temperature | 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C | 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C | 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C | 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C |

| Item | | CloudEngine S5735-L24T4X-A | CloudEngine S5735-L24T4X-D | CloudEngine S5735-L24P4X-A | CloudEngine S5735-L48T4S-A |
|---------------|--|--|--|--|--|
| | | every time the altitude increases by 220 m. |
| | Short-term operating temperature ³ | 0-1800 m altitude: -5°C to +55°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | 0-1800 m altitude: -5°C to +55°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | 0-1800 m altitude: -5°C to +55°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. | 0-1800 m altitude: -5°C to +55°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. |
| | Storage temperature | -40°C to +70°C | -40°C to +70°C | -40°C to +70°C | -40°C to +70°C |
| | Relative humidity | 5%-95%(non- condensing) | 5%-95%(non- condensing) | 5%-95%(non- condensing) | 5%-95%(non- condensing) |
| | Operating altitude | 5000 m | 5000 m | 5000 m | 5000 m |
| | Noise under normal temperature (sound power) | 50.8 dB(A) | 47.3 dB(A) | 57.7 dB(A) | 53.3dB (A) |
| | Noise under high temperature (sound power) | 71 dB(A) | 71 dB(A) | 74.2 dB(A) | 71.5dB (A) |
| | Noise under normal temperature (sound pressure) | 36 dB(A) | 32.5 dB(A) | 43 dB(A) | 38.5dB (A) |
| | Surge protection specification (RJ45 service port) | ±7 kV in common mode |
| | Surge protection specification (power port) | Differential mode: ± 6 kV Common mode: ±6 kV | Differential mode: ± 2 kV Common mode: ± 4 kV | Differential mode: ± 6 kV Common mode: ±6 kV | Differential mode: ± 6 kV Common mode: ±6 kV |
| Reliability | MTBF (year) ² | 50.68 | 50.68 | 57.07 | 46.36 |
| | MTTR (hour) | 2.37 | 2 | 2.1 | 2.59 |
| | Availability | > 0.99999 | > 0.99999 | > 0.99999 | > 0.99999 |
| Certification | | EMC certification Safety certification Manufacturing certification | EMC certification Safety certification Manufacturing certification | EMC certification Safety certification Manufacturing certification | EMC certification Safety certification Manufacturing certification |

| Item | | CloudEngine S5735-L48T4X-A | CloudEngine S5735-L48P4X- A | CloudEngine S5735-L32ST4X- A | CloudEngine S5735-L32ST4X- D |
|-------------------------|--------------------------------------|--|---|--|--|
| Physical specifications | Dimensions (H x W x D) | 43.6 mm x 442 mm x 220 mm | 43.6 mm x 442 mm x 420 mm | 43.6 mm x 442 mm x 220 mm | 43.6 mm x 442 mm x 220 mm |
| | Chassis height | 1 U | 1 U | 1 U | 1 U |
| | Chassis weight (including packaging) | 4.42 kg | 8.7 kg | 4.31 kg | 4.31 kg |
| Fixed port | GE port | 48 | 48(PoE+) | 8 | 8 |
| | GE SFP port | NA | NA | 24 | 24 |
| | 10GE port | 4 | 4 | 4 | 4 |
| Management port | Console port (RJ45) | Supported | Supported | Supported | Supported |
| | USB port | USB 2.0 | USB 2.0 | USB 2.0 | USB 2.0 |
| CPU | Frequency | 1000 MHz | 1000 MHz | 1000 MHz | 1000 MHz |
| | Core | 4 | 4 | 4 | 4 |
| Storage | Memory (RAM) | 1 GB | 1 GB | 1 GB | 1 GB |
| | Flash memory | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users | Hardware: 512 MB, of which 306 MB is available for users |
| Power supply system | Power supply type | Built-in AC power | 600 W PoE AC (pluggable) 1000 W PoE AC (pluggable) 1000 W PoE DC (pluggable) | Built-in AC | Built-in DC |
| | Rated voltage range | 100 V AC to 240 V AC, 50/60 Hz | AC input(600 /1000W AC PoE): 100 V AC to 130 V AC, 200 V AC to 240 V AC, 50/60 Hz High-Voltage DC input(600 /1000W AC PoE): 240 V DC DC input(1000 W DC PoE): -48 V DC to -60 | 100 V AC to 240 V AC, 50/60 Hz | -48V DC∼-60V DC |
| | Maximum voltage range | AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz High-voltage DC | V DC AC input(600 /1000W AC PoE): 90 V AC to 290 V AC, | AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz High-voltage DC | -38.4V DC∼-72V DC |

| Item | | CloudEngine S5735-L48T4X-A | CloudEngine S5735-L48P4X- A | CloudEngine S5735-L32ST4X- A | CloudEngine S5735-L32ST4X- D |
|-------------------------------|---|--|---|--|--|
| | | input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) | 45 Hz to 65 Hz High-Voltage DC input(600 /1000W AC PoE): 190 V DC to 290 V DC DC input(1000 W DC PoE): -38.4 V DC to -72 V DC | input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) | |
| | Maximum input current | 2 A | 8 A | 2 A | 2 A |
| | Maximum power consumption of the device | 54 W | 80 W (without PD) 914 W (with PD, PD power consumption of 874 W) | 65 W | 65 W |
| | Power consumption in the case of 30% traffic load ¹ | 39 W | 59 W | 46 W | 46 W |
| | Power consumption in the case of 100% traffic load ¹ | 48 W | 68 W | 48 W | 48 W |
| Heat dissipation system | Heat dissipation mode | Air-cooled heat dissipation and intelligent fan speed adjustment | Air-cooled heat dissipation and intelligent fan speed adjustment | Air-cooled heat dissipation and intelligent fan speed adjustment | Air-cooled heat dissipation and intelligent fan speed adjustment |
| | Number of fan modules | 1 | 2 | 2 | 2 |
| | Airflow | Air flows in from the left side and front panel, exhausts from the right side | Air flows in from the left,right sides and front panel, exhausts from the rear panel | Air flows in from the left side and front panel, exhausts from the right side | Air flows in from the left side and front panel, exhausts from the right side |
| | Maximum heat dissipation of the device (BTU/hour) | 184.3 | Without PDs: 262.7With PDs: 5667 | 221.8 | 221.8 |
| Environment parameters | Long-term operating temperature | 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C | O-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C | O-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C | 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C |

| Item | | CloudEngine S5735-L48T4X-A | CloudEngine S5735-L48P4X- A | CloudEngine S5735-L32ST4X- A | CloudEngine S5735-L32ST4X- D |
|---------------|---|---|---|---|---|
| | | every time the altitude increases by 220 m. |
| | Short-term operating temperature ³ | 0-1800 m altitude: -5°C to +55°C 1800-5000 m altitude: The | 0-1800 m altitude: -5°C to +55°C 1800-5000 m altitude: The | 0-1800 m altitude: -5°C to +55°C 1800-5000 m altitude: The | 0-1800 m altitude: -5°C to +55°C 1800-5000 m altitude: The |
| | | operating temperature reduces by 1°C every time the altitude increases by 220 m. | operating temperature reduces by 1°C every time the altitude increases by 220 m. | operating temperature reduces by 1°C every time the altitude increases by 220 m. | operating temperature reduces by 1°C every time the altitude increases by 220 m. |
| | Storage temperature | -40°C to +70°C | -40°C to +70°C | -40°C to +70°C | -40°C to +70°C |
| | Relative humidity | 5%-95%(non- condensing) | 5%-95%(non- condensing) | 5%-95%(non- condensing) | 5%-95%(non- condensing) |
| | Operating altitude | 5000 m | 5000 m | 5000 m | 5000 m |
| | Noise under normal temperature (sound power) | 53.3dB (A) | 58.9dB (A) | 53.3 dB(A) | 53.3 dB(A) |
| | Noise under high temperature (sound power) | 71.5dB (A) | 75dB (A) | 74.5 dB(A) | 74.5 dB(A) |
| | Noise under normal temperature (sound pressure) | 38.5dB (A) | 43.8dB (A) | 38.5 dB(A) | 38.5 dB(A) |
| | Surge protection specification (RJ45 service port) | ±7 kV in common mode | ±7 kV in common mode | ±7 kV in common mode | ±7 kV in common mode |
| | Surge protection specification (power port) | Differential mode: ±6 kV Common mode: ±6 kV | Differential mode: ± 6 kV Common mode: ±6 kV | Differential mode: ± 6 kV Common mode: ±6 kV | Differential mode: ± 2 kV Common mode: ± 4 kV |
| Reliability | MTBF (year) ² | 41.48 | 61.7 | 85.87 | 85.87 |
| | MTTR (hour) | 2.89 | 1.94 | 1.4 | 1.4 |
| | Availability | > 0.99999 | > 0.99999 | > 0.99999 | > 0.99999 |
| Certification | | EMC certification | EMC certification | EMC certification | EMC certification |
| | | Safety | Safety | Safety | Safety |

| Item | CloudEngine S5735-L48T4X-A | CloudEngine S5735-L48P4X- A | CloudEngine S5735-L32ST4X- A | CloudEngine S5735-L32ST4X- D |
|------|--|--|--|--|
| | certification • Manufacturing certification | certification • Manufacturing certification | certification Manufacturing certification | certification • Manufacturing certification |

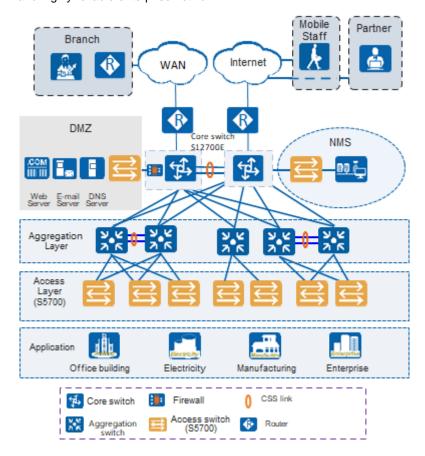
□ NOTE

- 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.
- 3: Short term indicates that the successive operating time is no more than 96 hours, the total operating time is no more than 360 hours, or the number of times the operating temperature is over 45° C is no more than 15 in a year.

Networking and Applications

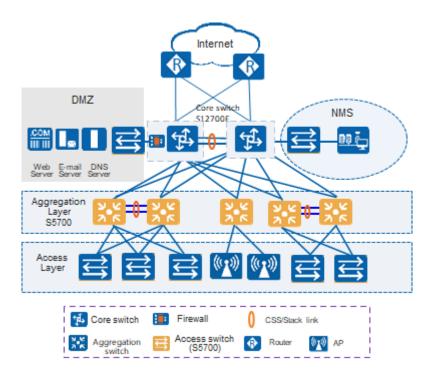
Large-Scale Enterprise Campus Network

CloudEngine S5735-L series switches can be deployed at the access layer of a campus network to build a high-performance and highly reliable enterprise network.



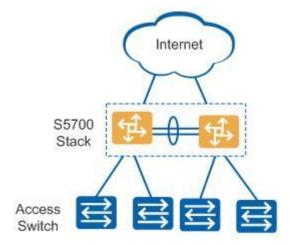
Small- or Medium-scale Enterprise Campus Network

CloudEngine S5735-L series switches can be deployed at the aggregation layer of a campus network to build a high-performance, multi-service, and highly reliable enterprise network.



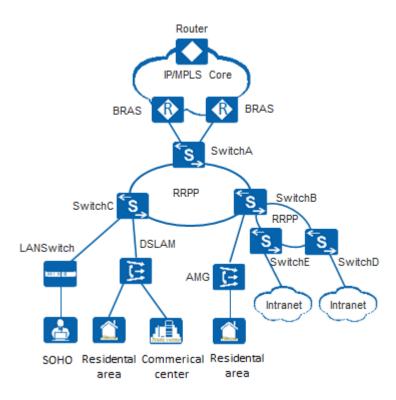
Small-scale Enterprise Campus Network

With powerful aggregation and routing capabilities of CloudEngine S5735-L series switches make them suitable for use as core switches in a small-scale enterprise network. Two or more S5735-L switches use iStack technology to ensure high reliability. They provide a variety of access control policies to achieve centralized management and simplify configuration.



Application on a MAN

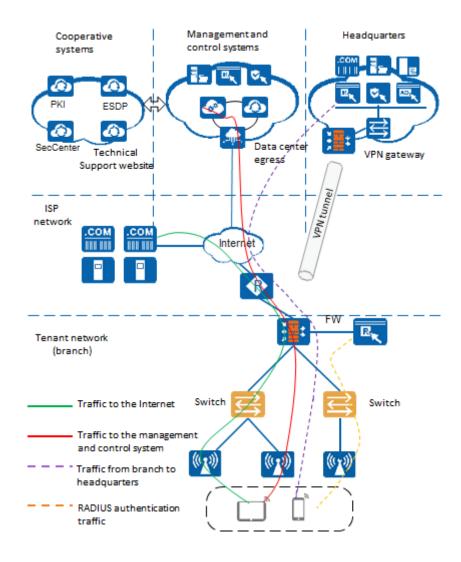
CloudEngine S5735-L series switches can be deployed at the access layer of a MAN(Metropolitan Area Network) to build a high-performance, multi-service, and highly reliable ISP MAN network.



Application in Public Cloud

CloudCampus Solution is a network solution suite based on Huawei public cloud. CloudEngine S5735-L series switches can be located at the access layer.

The switches are plug-and-play. They go online automatically after being powered on and connected with network cables, without the need for complex configurations. The switches can connect to the management and control system (CloudCampus@AC-Campus for switches running V200R019C00 and earlier versions; iMaster NCE-Campus for switches running V200R019C10 and later versions), and use bidirectional certificate authentication to ensure management channel security. The switches provide the NETCONF and YANG interfaces, through which the management and control system delivers configurations to them. In addition, remote maintenance and fault diagnosis can be performed on the management and control system.



Safety and Regulatory Compliance

Safety and regulatory compliance of the CloudEngine S5735-L series

| Certification Category | Description |
|--|--|
| Safety | IEC 60950-1 EN 60950-1/A11/A12 UL 60950-1 CSA C22.2 No 60950-1 AS/NZS 60950.1 CNS 14336-1 |
| Laser safety | IEC60825-1 IEC60825-2 EN60825-1 EN60825-2 |
| Electromagnetic Compatibility (EMC) | CISPR22 Class A CISPR24 EN55022 Class A EN55024 |

| Certification Category | Description |
|---------------------------|----------------------------|
| | ETSI EN 300 386 Class A |
| | CFR 47 FCC Part 15 Class A |
| | ICES 003 Class A |
| | AS/NZS CISPR22 Class A |
| | VCCI Class A |
| | • EN61000-3-2 |
| | • EN61000-3-3 |
| | • IEC61000-4-2 |
| | • ITU-T K 20 |
| | • ITU-T K 21 |
| | • ITU-T K 44 |
| | • CNS13438 |
| Environment | • RoHS |
| | • REACH |
| | • WEEE |

□ 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

Supported MIBs by the CloudEngine S5735-L series

| Category | MIB |
|------------|---|
| Public MIB | BRIDGE-MIB DISMAN-NSLOOKUP-MIB DISMAN-PING-MIB DISMAN-TRACEROUTE-MIB ENTITY-MIB |

| Category | MIB |
|------------------------|-----------------------------------|
| | EtherLike-MIB |
| | • IF-MIB |
| | IP-FORWARD-MIB |
| | IPv6-MIB |
| | • LAG-MIB |
| | LLDP-EXT-DOT1-MIB |
| | LLDP-EXT-DOT3-MIB |
| | • LLDP-MIB |
| | NOTIFICATION-LOG-MIB |
| | NQA-MIB |
| | P-BRIDGE-MIB |
| | Q-BRIDGE-MIB |
| | • RFC1213-MIB |
| | RMON-MIB |
| | SAVI-MIB |
| | SNMP-FRAMEWORK-MIB |
| | SNMP-MPD-MIB |
| | SNMP-NOTIFICATION-MIB |
| | SNMP-TARGET-MIB |
| | SNMP-USER-BASED-SM-MIB |
| | SNMPv2-MIB |
| | SNMP-VIEW-BASED-ACM-MIB |
| | • TCP-MIB |
| | • UDP-MIB |
| Huawei-proprietary MIB | HUAWEI-AAA-MIB |
| | HUAWEI-ACL-MIB |
| | HUAWEI-ALARM-MIB |
| | HUAWEI-ALARM-RELIABILITY-MIB |
| | HUAWEI-BASE-TRAP-MIB |
| | HUAWEI-BRAS-RADIUS-MIB |
| | HUAWEI-BRAS-SRVCFG-EAP-MIB |
| | HUAWEI-BRAS-SRVCFG-STATICUSER-MIB |
| | HUAWEI-CBQOS-MIB |
| | HUAWEI-CDP-COMPLIANCE-MIB |
| | HUAWEI-CONFIG-MAN-MIB |
| | HUAWEI-CPU-MIB |
| | HUAWEI-DAD-TRAP-MIB |
| | HUAWEI-DATASYNC-MIB |
| | HUAWEI-DEVICE-MIB |
| | HUAWEI-DHCPR-MIB |
| | HUAWEI-DHCPS-MIB |
| | HUAWEI-DHCP-SNOOPING-MIB |
| | HUAWEI-DIE-MIB |
| | HUAWEI-DNS-MIB |
| | |

| Category | MIB |
|----------|-----------------------------|
| | HUAWEI-DLDP-MIB |
| | HUAWEI-ERPS-MIB |
| | HUAWEI-ERRORDOWN-MIB |
| | HUAWEI-ENERGYMNGT-MIB |
| | HUAWEI-EASY-OPERATION-MIB |
| | HUAWEI-ENTITY-EXTENT-MIB |
| | HUAWEI-ENTITY-TRAP-MIB |
| | HUAWEI-ETHARP-MIB |
| | HUAWEI-ETHOAM-MIB |
| | HUAWEI-FLASH-MAN-MIB |
| | HUAWEI-FWD-RES-TRAP-MIB |
| | HUAWEI-GARP-APP-MIB |
| | HUAWEI-GTL-MIB |
| | HUAWEI-HGMP-MIB |
| | HUAWEI-HWTACACS-MIB |
| | HUAWEI-IF-EXT-MIB |
| | HUAWEI-INFOCENTER-MIB |
| | HUAWEI-IPPOOL-MIB |
| | HUAWEI-IPV6-MIB |
| | HUAWEI-ISOLATE-MIB |
| | HUAWEI-L2IF-MIB |
| | HUAWEI-L2MAM-MIB |
| | HUAWEI-L2VLAN-MIB |
| | HUAWEI_LDT-MIB |
| | HUAWEI-LLDP-MIB |
| | HUAWEI-MAC-AUTHEN-MIB |
| | HUAWEI-MEMORY-MIB |
| | HUAWEI-MFF-MIB |
| | HUAWEI-MFLP-MIB |
| | HUAWEI-MSTP-MIB |
| | HUAWEI-MULTICAST-MIB |
| | HUAWEI-NTPV3-MIB |
| | HUAWEI-PERFORMANCE-MIB |
| | HUAWEI-PERFMGMT-MIB |
| | HUAWEI-PORT-MIB |
| | HUAWEI-PORTAL-MIB |
| | HUAWEI-QINQ-MIB |
| | HUAWEI-RM-EXT-MIB |
| | HUAWEI-RRPP-MIB |
| | HUAWEI-SECURITY-MIB |
| | HUAWEI-SEP-MIB |
| | HUAWEI-SNMP-EXT-MIB |
| | HUAWEI-SSH-MIB |
| | HUAWEI-STACK-MIB |
| | HUAWEI-SWITCH-L2MAM-EXT-MIB |

| Category | MIB |
|----------|----------------------------|
| | HUAWEI-SWITCH-SRV-TRAP-MIB |
| | HUAWEI-SYS-MAN-MIB |
| | HUAWEI-TCP-MIB |
| | HUAWEI-TFTPC-MIB |
| | HUAWEI-TRNG-MIB |
| | HUAWEI-UNIMNG-MIB |
| | HUAWEI-USA-MIB |
| | HUAWEI-XQOS-MIB |

◯ NOTE

For more detailed information of MIBs supported by the CloudEngine S5735-L series, visit https://support.huawei.com/enterprise/en/switches/s5700-pid-6691579?category=reference-guides&subcategory=mib-reference.

Standard Compliance

Standard compliance list of the CloudEngine S5735-L series

| Standard Organization | Standard or Protocol |
|--------------------------|---|
| IETF | RFC 768 User Datagram Protocol (UDP) |
| | RFC 792 Internet Control Message Protocol (ICMP) |
| | RFC 793 Transmission Control Protocol (TCP) |
| | RFC 826 Ethernet Address Resolution Protocol (ARP) |
| | RFC 854 Telnet Protocol Specification |
| | RFC 951 Bootstrap Protocol (BOOTP) |
| | RFC 959 File Transfer Protocol (FTP) |
| | RFC 1058 Routing Information Protocol (RIP) |
| | RFC 1112 Host extensions for IP multicasting |
| | RFC 1157 A Simple Network Management Protocol (SNMP) |
| | RFC 1256 ICMP Router Discovery |
| | RFC 1305 Network Time Protocol Version 3 (NTP) |
| | RFC 1349 Internet Protocol (IP) |
| | RFC 1493 Definitions of Managed Objects for Bridges |
| | RFC 1542 Clarifications and Extensions for the Bootstrap Protocol |
| | RFC 1643 Ethernet Interface MIB |
| | RFC 1757 Remote Network Monitoring (RMON) |
| | RFC 1901 Introduction to Community-based SNMPv2 |
| | RFC 1902-1907 SNMP v2 |
| | RFC 1981 Path MTU Discovery for IP version 6 |
| | RFC 2131 Dynamic Host Configuration Protocol (DHCP) |
| | RFC 2460 Internet Protocol, Version 6 Specification (IPv6) |
| | RFC 2461 Neighbor Discovery for IP Version 6 (IPv6) |
| | RFC 2462 IPv6 Stateless Address Auto configuration |
| | RFC 2463 Internet Control Message Protocol for IPv6 (ICMPv6) |
| | RFC 2474 Differentiated Services Field (DS Field) |
| | RFC 2863 The Interfaces Group MIB |
| | RFC 2597 Assured Forwarding PHB Group |

| Standard Organization | Standard or Protocol |
|--------------------------|--|
| | RFC 2598 An Expedited Forwarding PHB RFC 2571 SNMP Management Frameworks RFC 2865 Remote Authentication Dial In User Service (RADIUS) RFC 3046 DHCP Option82 RFC 3513 IP Version 6 Addressing Architecture RFC 3579 RADIUS Support For EAP draft-grant-tacacs-02 TACACS+ RFC 6241 Network Configuration Protocol (NETCONF) RFC 6020 YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF) |
| IEEE | IEEE 802.1D Media Access Control (MAC) Bridges IEEE 802.1p Traffic Class Expediting and Dynamic Multicast Filtering IEEE 802.1Q Virtual Bridged Local Area Networks IEEE 802.1ad Provider Bridges IEEE 802.2 Logical Link Control IEEE Std 802.3 CSMA/CD IEEE Std 802.3ab 1000BASE-T specification IEEE Std 802.3ad Aggregation of Multiple Link Segments IEEE Std 802.3ac 10GE WEN/LAN Standard IEEE Std 802.3x Full Duplex and flow control IEEE Std 802.3z Gigabit Ethernet Standard IEEE 802.1ax/IEEE802.3ad Link Aggregation IEEE 802.1ax/IEEE802.3ad Link Aggregation IEEE 802.1ac Connectivity Fault Management IEEE 802.1a Connectivity Fault Management IEEE 802.1b Link Layer Discovery Protocol IEEE 802.1b Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.3af DTE Power via MIDI IEEE 802.3at DTE Power via the MDI Enhancements IEEE 802.3az Energy Efficient Ethernet |
| ITU | ITU SG13 Y.17ethoam ITU SG13 QoS control Ethernet-Based IP Access ITU-T Y.1731 ETH OAM performance monitor |
| MEF | MEF 2 Requirements and Framework for Ethernet Service Protection MEF 9 Abstract Test Suite for Ethernet Services at the UNI MEF 11 UNI Requirements and Framework MEF 15 Requirements for Management of Metro Ethernet Phase 1 Network Elements MEF 17 Service OAM Framework and Requirements MEF 20 UNI Type 2 Implementation Agreement MEF 23 Class of Service Phase 1 Implementation Agreement XMODEM/YMODEM Protocol Reference |

◯ NOTE

The listed standards and protocols are fully or partially supported by Huawei switches. For details, visit http://e.huawei.com/en or contact your local Huawei sales office.

Ordering Information

| Model | Product Description |
|---------------------------------|---|
| CloudEngine S5735-L8T4S- A1 | CloudEngine S5735-L8T4S-A1 (8*10/100/1000BASE-T ports, 4*GE SFP ports, AC power) |
| CloudEngine S5735-L8P4S- A1 | CloudEngine S5735-L8P4S-A1 (8*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, AC power) |
| CloudEngine S5735-L8T4X-A1 | CloudEngine S5735-L8T4X-A1 (8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power) |
| CloudEngine S5735-L8P4X-A1 | CloudEngine S5735-L8P4X-A1 (8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, PoE+, AC power) |
| CloudEngine S5735- L24T4S-A1 | CloudEngine S5735-L24T4S-A1 (24*10/100/1000BASE-T ports, 4*GE SFP ports, AC power) |
| CloudEngine S5735- L24P4S-A1 | CloudEngine S5735-L24P4S-A1 (24*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, AC power) |
| CloudEngine S5735- L24T4X-A1 | CloudEngine S5735-L24T4X-A1 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power) |
| CloudEngine S5735- L24T4X-D1 | CloudEngine S5735-L24T4X-D1 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, DC power) |
| CloudEngine S5735- L24P4X-A1 | CloudEngine S5735-L24P4X-A1 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, PoE+, AC power) |
| CloudEngine S5735- L48T4S-A1 | CloudEngine S5735-L48T4S-A1 (48*10/100/1000BASE-T ports, 4*GE SFP ports, AC power) |
| CloudEngine S5735- L48P4S-A1 | CloudEngine S5735-L48P4S-A1 (48*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, AC power) |
| CloudEngine S5735- L48T4X-A1 | CloudEngine S5735-L48T4X-A1 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power) |
| CloudEngine S5735- L48P4X-A1 | CloudEngine S5735-L48P4X-A1 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, PoE+, AC power) |
| CloudEngine S5735- L12T4S-A | CloudEngine S5735-L12T4S-A (12 x 10/100/1000BASE-T ports, 4 x GE SFP ports, AC power) |
| CloudEngine S5735- L12P4S-A | CloudEngine S5735-L12P4S-A (12 x 10/100/1000BASE-T ports, 4 x GE SFP ports, PoE+, AC power) |
| CloudEngine S5735- L24T4S-A | CloudEngine S5735-L24T4S-A (24 x 10/100/1000BASE-T ports, 4 x GE SFP ports, AC power) |
| CloudEngine S5735- L24P4S-A | CloudEngine S5735-L24P4S-A (24 x 10/100/1000BASE-T ports, 4 x GE SFP ports, PoE+, AC power) |
| CloudEngine S5735- L24T4X-A | CloudEngine S5735-L24T4X-A (24 x 10/100/1000BASE-T ports, 4 x 10 GE SFP+ ports, AC power) |
| CloudEngine S5735- | CloudEngine S5735-L24T4X-D (24 x 10/100/1000BASE-T ports, 4 x 10 GE SFP+ ports, DC |

| Model | Product Description |
|---------------------------------|---|
| L24T4X-D | power) |
| CloudEngine S5735- L24P4X-A | CloudEngine S5735-L24P4X-A (24 x 10/100/1000BASE-T ports, 4 x 10 GE SFP+ ports, PoE+, AC power) |
| CloudEngine S5735- L48T4S-A | CloudEngine S5735-L48T4S-A (48 x 10/100/1000BASE-T ports, 4 x GE SFP ports, AC power) |
| CloudEngine S5735- L48T4X-A | CloudEngine S5735-L48T4X-A (48 x 10/100/1000BASE-T ports, 4 x 10 GE SFP+ ports, AC power) |
| CloudEngine S5735- L48P4X-A | CloudEngine S5735-L48P4X-A bundle (48 x 10/100/1000BASE-T ports, 4 x 10 GE SFP+ ports, PoE+, 1*1000W PoE AC power module) |
| CloudEngine S5735- L32ST4X-A | CloudEngine S5735-L32ST4X-A (24 x GE SFP ports, 8 *10/100/1000Base-T, 4 x 10 GE SFP+ ports, AC power) |
| CloudEngine S5735- L32ST4X-D | CloudEngine S5735-L32ST4X-D (24 x GE SFP ports, 8 *10/100/1000Base-T, 4 x 10 GE SFP+ ports, DC power) |
| PAC600S56-CB | 600 W AC PoE power module |
| PAC1000S56-DB | 1000 W AC PoE power module |
| PDC1000S56-CB | 1000 W DC PoE power module |
| PAC1000S56-CB | 1000W AC PoE power module |
| N1-S57L-M-Lic | S57XX-L Series Basic SW,Per Device |
| N1-S57L-M-SnS1Y | S57XX-L Series Basic SW,SnS,Per Device,1Year |
| N1-S57L-F-Lic | N1-CloudCampus,Foundation,S57XX-L Series,Per Device |
| N1-S57L-F-SnS | N1-CloudCampus,Foundation,S57XX-L Series,SnS,Per Device |
| N1-S57L-A-Lic | N1-CloudCampus,Advanced,S57XX-L Series,Per Device |
| N1-S57L-A-SnS | N1-CloudCampus,Advanced,S57XX-L Series,SnS,Per Device |
| N1-S57L-FToA-Lic | N1-Upgrade-Foundation to Advanced,S57XX-L,Per Device |
| N1-S57L-FToA-SnS | N1-Upgrade-Foundation to Advanced,S57XX-L,SnS,Per Device |

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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