

# **CloudEngine S5735-L Series Switches**

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

#### Models and appearances of the CloudEngine S5735-L series

Models and Appearances	Description
CloudEngine S5735-L12T4S-A	<ul> <li>12 x 10/100/1000Base-T ports, 4 x GE SFP ports</li> <li>AC power supply</li> <li>Forwarding performance: 24 Mpps</li> <li>Switching capacity: 32 Gbps/336 Gbps</li> </ul>
CloudEngine S5735-L12P4S-A	<ul> <li>12 x 10/100/1000Base-T ports, 4 x GE SFP ports</li> <li>AC power supply</li> <li>PoE+</li> <li>Forwarding performance: 24 Mpps</li> <li>Switching capacity: 32 Gbps/336 Gbps</li> </ul>
CloudEngine S5735-L24T4S-A	<ul> <li>24 x 10/100/1000Base-T ports, 4 x GE SFP ports</li> <li>AC power supply</li> <li>Forwarding performance: 42 Mpps</li> <li>Switching capacity: 56 Gbps/336 Gbps</li> </ul>
CloudEngine S5735-L24P4S-A	<ul> <li>24 x 10/100/1000Base-T ports, 4 x GE SFP ports</li> <li>AC power supply</li> <li>PoE+</li> <li>Forwarding performance: 42 Mpps</li> </ul>

Models and Appearances	Description
	Switching capacity: 56 Gbps/336 Gbps
CloudEngine S5735-L24T4X-A	<ul> <li>24 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports</li> <li>AC power supply</li> <li>Forwarding performance: 96 Mpps</li> <li>Switching capacity: 128 Gbps/336 Gbps</li> </ul>
CloudEngine S5735-L24P4X-A	<ul> <li>24 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports</li> <li>AC power supply</li> <li>PoE+</li> <li>Forwarding performance: 96 Mpps</li> <li>Switching capacity: 128 Gbps/336 Gbps</li> </ul>
CloudEngine S5735-L48T4S-A	<ul> <li>48 x 10/100/1000Base-T ports, 4 x GE SFP ports</li> <li>AC power supply</li> <li>Forwarding performance: 78 Mpps</li> <li>Switching capacity: 104 Gbps/432 Gbps</li> </ul>
CloudEngine S5735-L48T4X-A	<ul> <li>48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports</li> <li>AC power supply</li> <li>Forwarding performance: 132 Mpps</li> <li>Switching capacity: 176 Gbps/432 Gbps</li> </ul>
CloudEngine S5735-L48P4X-A	<ul> <li>48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports</li> <li>AC power supply</li> <li>PoE+</li> <li>Forwarding performance: 132 Mpps</li> <li>Switching capacity: 176 Gbps/432 Gbps</li> </ul>
CloudEngine S5735-L32ST4X-A	<ul> <li>24 x GE SFP ports, 8 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports</li> <li>AC power supply</li> <li>Forwarding performance: 108 Mpps</li> <li>Switching capacity: 144 Gbps/432 Gbps</li> </ul>

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
PAC1000S56-CB	<ul> <li>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.)</li> <li>Weight: 1.1 kg (2.43 lb)</li> <li>Rated input voltage range: <ul> <li>100 V AC to 130 V AC, 50/60 Hz</li> <li>200 V AC to 240 V AC, 50/60 Hz</li> <li>240 V DC</li> </ul> </li> <li>Maximum input voltage range: <ul> <li>90 V AC to 290 V AC, 45 Hz to 65 Hz</li> </ul> </li> </ul>	CloudEngine S5735-L48P4X-A

Power Module	Technical Specifications	Applied Switch Model
	- 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	
	<ul> <li>200 V AC to 240 V AC input and 240 V DC input: 17.86 A</li> </ul>	
	Maximum output power:	
	<ul> <li>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)</li> </ul>	
	Hot swap: Supported	

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 PoE (220 V)	874 W	<ul> <li>802.3af (15.4 W per port): 48</li> <li>802.3at (30 W per port): 29</li> </ul>
1000 W AC PoE (110 V)	779 W	<ul> <li>802.3af (15.4 W per port): 48</li> <li>802.3at (30 W per port): 25</li> </ul>

#### 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	<ul> <li>802.3af (15.4 W per port): 24</li> <li>802.3at (30 W per port): 12</li> </ul>

#### 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	<ul> <li>802.3af (15.4 W per port): 24</li> <li>802.3at (30 W per port): 12</li> </ul>

### 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	<ul> <li>802.3af (15.4 W per port): 12</li> <li>802.3at (30 W per port): 12</li> </ul>

# **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.

### **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.

### **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:	$\checkmark$		$\checkmark$
Layer 2 functions, IPv4, IPv6, SVF, and others			
Note: For details, see the Service Features			
Basic network automation based on the iMaster NCE- Campus:	×	1	$\checkmark$
Basic automation: Plug-and-play			
Basic monitoring: Application visualization			
<ul> <li>NE management: Image and topology management and discovery</li> </ul>			
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 packets	Yes
		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

Function and Feature	Description	CloudEngines S5735-L
	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
	GVRP	Yes
VCMP	VCMP	Yes
MAC	MAC address	16512
	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

Function and Featu	re	Description	CloudEngines S5735-L
		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
		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
		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

Function and Featu	ire	Description	CloudEngines S5735-L		
	routing	VRF	Yes		
		DHCP client	Yes		
		DHCP server	Yes		
		DHCP relay	Yes		
		Routing policies	Yes		
		IPv4 routes	4096		
		RIPv1	Yes		
		RIPv2	Yes		
		OSPF	S5735-LYes </td		
		Policy-based routing (PBR)	S5735-LYesYesYesYesYes4096Yes<		
	Multicast routing	IGMPv1/v2/v3	Yes		
	features	PIM-DM	Yes		
		PIM-SM	Yes		
		MSDP	Yes		
		IPv4 multicast routes	1500		
		IPv6 multicast routes	1500		
		Multicast routing policies	Yes		
		RPF	Yes		
	IPv6 features	IPv6 protocol stack	Yes		
		ND	Yes		
		ND entry	1024		
		ND snooping	Yes		
		DHCPv6 snooping	Yes		
		RIPng	Yes		
		DHCPv6 server	Yes		
		DHCPv6 relay	Yes		
		OSPFv3	Yes		
		IPv6 routes	1024		
		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		

Function and Fea	iture	Description	CloudEngines S5735-L
		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
		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

Function and Featu	ire	Description	CloudEngines S5735-L
ACL	Packet filtering at	Number of rules per IPv4 ACL	2К
	Layer 2 to Layer 4	Number of rules per IPv6 ACL	2К
		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 maintenance	eMDI	Yes
		Hardware monitoring	Yes
		Log information output	Yes
		Alarm information output	Yes
		Debugging information output	Yes
		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

Function and Feat	ure	Description	CloudEngines S5735-L
		Association between ARP and STP	Yes
		Dynamic ARP Inspection (DAI)	Yes
		Static ARP Inspection (SAI)	Yes
	IP security	Egress ARP Inspection (EAI)	Yes
		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
		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

Function and Feature		Description	CloudEngines S5735-L
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

### D NOTE

This content is applicable only to regions outside mainland China. Huawei reserves the right to interpret this content.

## Hardware Specifications

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

ltem		CloudEngine S5735-L12T4S- A	CloudEngine S5735-L12P4S- A	CloudEngine S5735-L24T4S- A	CloudEngine S5735-L24P4S- A
Physical specifications	Dimensions (H x W x D)	43.6 mm x 442 mm x 220 mm			
	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
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

Item		CloudEngine S5735-L12T4S- A	CloudEngine S5735-L12P4S- A	CloudEngine S5735-L24T4S- A	CloudEngine S5735-L24P4S- A
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	Power supply type	Built-in AC	Built-in AC	Built-in AC	Built-in AC
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	<ul> <li>AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz</li> <li>High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high- voltage DC certification)</li> </ul>	<ul> <li>AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz</li> <li>High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high- voltage DC certification)</li> </ul>	<ul> <li>AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz</li> <li>High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high- voltage DC certification)</li> </ul>	<ul> <li>AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz</li> <li>High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high- voltage DC certification)</li> </ul>
	Maximum input current	2 A	6 A	2 A	6 A
	Maximum power consumption of the device	29 W	<ul> <li>49 W (without PD)</li> <li>441 W (with PD, PD power consumption of 360 W)</li> </ul>	34 W	<ul> <li>53 W (without PD)</li> <li>451 W (with PD, PD power consumption of 380 W)</li> </ul>
	Power consumption in the case of 30% traffic load <sup>1</sup>	23 W	38 W	28 W	39 W
	Power consumption in the case of 100% traffic load <sup>1</sup>	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	98.95	without PD :167.2	116	without PD :180.8

ltem		CloudEngine S5735-L12T4S- A	CloudEngine S5735-L12P4S- A	CloudEngine S5735-L24T4S- A	CloudEngine S5735-L24P4S- A
	device (BTU/hour)		with PD: 1505		with PD: 1539
Environment parameters	Long-term operating temperature	<ul> <li>0-1800 m altitude: -5°C to +45°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>	<ul> <li>0-1800 m altitude: -5°C to +50°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>	<ul> <li>0-1800 m altitude: -5°C to +45°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>	<ul> <li>0-1800 m altitude: -5°C to +50°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>
	Short-term operating temperature <sup>3</sup>	NA	<ul> <li>0-1800 m altitude: -5°C to +55°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>	NA	<ul> <li>0-1800 m altitude: -5°C to +55°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>
	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 power)	Silent (fan-free)	74.2dB(A)	Silent (fan-free)	74.2dB(A)
	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)	<ul> <li>Differential mode: ± 6 kV</li> <li>Common mode: ±6 kV</li> </ul>	<ul> <li>Differential mode: ± 6 kV</li> <li>Common mode: ±6 kV</li> </ul>	<ul> <li>Differential mode: ± 6 kV</li> <li>Common mode: ±6 kV</li> </ul>	<ul> <li>Differential mode: ± 6 kV</li> <li>Common mode: ±6 kV</li> </ul>

ltem		CloudEngine S5735-L12T4S- A	CloudEngine S5735-L12P4S- A	CloudEngine S5735-L24T4S- A	CloudEngine S5735-L24P4S- A
Reliability	MTBF (year) <sup>2</sup>	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		<ul> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>	<ul> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>	<ul> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>	<ul> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>

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

Item		CloudEngine S5735-L24T4X-A	CloudEngine S5735-L24P4X-A	CloudEngine S5735-L48T4S-A
Physical specifications	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
	Chassis height	1 U	1 U	1 U
	Chassis weight (including packaging)	4 kg	4.31 kg	4.42 kg
Fixed port	GE Base-T port	24	24(PoE+)	48
	GE SFP port	NA	NA	4
	10GE port	4	4	NA
Management port	Console port (RJ45)	Supported	Supported	Supported
	USB port	USB 2.0	USB 2.0	USB 2.0
CPU	Frequency	1000 MHz	1000 MHz	1000 MHz
	Core	4	4	4
Storage	Memory (RAM)	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
Power supply system	Power supply type	Built-in AC	Built-in AC	Built-in AC power
	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
	Maximum voltage range	<ul> <li>AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz</li> <li>High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification)</li> </ul>	<ul> <li>AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz</li> <li>High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification)</li> </ul>	<ul> <li>AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz</li> <li>High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification)</li> </ul>

Item		CloudEngine S5735-L24T4X-A	CloudEngine S5735-L24P4X-A	CloudEngine S5735-L48T4S-A
	Maximum input current	2 A	6 A	2 A
	Maximum power consumption of the device	43 W	<ul> <li>56 W (without PD)</li> <li>458 W (with PD, PD power consumption of 380 W)</li> </ul>	53 W
	Power consumption in the case of 30% traffic load <sup>1</sup>	27 W	43 W	37 W
	Power consumption in the 2ase of 100% traffic load <sup>1</sup>	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
	Number of fan modules	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
	Maximum heat dissipation of the device (BTU/hour)	146.7	without PD :191.1 with PD: 1563	180.8
Environment parameters	Long-term operating temperature	<ul> <li>0-1800 m altitude: -5°C to +50°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>	<ul> <li>0-1800 m altitude: -5°C to +50°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>	<ul> <li>0-1800 m altitude: -5°C to +50°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>
	Short-term operating temperature <sup>3</sup>	<ul> <li>0-1800 m altitude: -5°C to +55°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>	<ul> <li>0-1800 m altitude: -5°C to +55°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>	<ul> <li>0-1800 m altitude: -5°C to +55°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>
	Storage temperature	-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)

ltem		CloudEngine S5735-L24T4X-A	CloudEngine S5735-L24P4X-A	CloudEngine S5735-L48T4S-A
	Operating altitude	5000 m	5000 m	5000 m
	Noise under normal temperature (sound power)	50.8 dB(A)	57.7 dB(A)	53.3dB (A)
	Noise under high temperature (sound power)	71 dB(A)	74.2 dB(A)	71.5dB (A)
	Noise under normal temperature (sound pressure)	36 dB(A)	43 dB(A)	38.5dB (A)
	Surge protection specification (RJ45 service port)	±7 kV in common mode	±7 kV in common mode	±7 kV in common mode
	Surge protection specification (power	<ul> <li>Differential mode: ± 6 kV</li> </ul>	<ul> <li>Differential mode: ± 6 kV</li> </ul>	<ul> <li>Differential mode: ± 6 kV</li> </ul>
	port)	<ul> <li>Common mode: ±6 kV</li> </ul>	Common mode: ±6     kV	<ul> <li>Common mode: ±6 kV</li> </ul>
Reliability	MTBF (year) <sup>2</sup>	50.68	57.07	46.36
	MTTR (hour)	2.37	2.1	2.59
	Availability	> 0.99999	> 0.99999	> 0.99999
Certification		<ul> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>	<ul> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>	<ul> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>

### Hardware specifications of CloudEngine S5735-L48T4X-A/-L48P4X-A/-L32ST4X-A models

Item		CloudEngine S5735-L48T4X-A	CloudEngine S5735-L48P4X-A	CloudEngine S5735-L32ST4X-A
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
	Chassis height	1 U	1 U	1 U
	Chassis weight (including packaging)	4.42 kg	8.7 kg	4.31 kg
Fixed port	GE port	48	48(PoE+)	32
	10GE port	4	4	4
Management port	Console port (RJ45)	Supported	Supported	Supported
	USB port	USB 2.0	USB 2.0	USB 2.0
CPU	Frequency	1000 MHz	1000 MHz	1000 MHz
	Core	4	4	4
Storage	Memory (RAM)	1 GB	1 GB	1 GB

ltem		CloudEngine S5735-L48T4X-A	CloudEngine S5735-L48P4X-A	CloudEngine S5735-L32ST4X-A
	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
Power supply system	Power supply type	Built-in AC power	1000 W AC PoE	Built-in AC
	Rated voltage range	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
	Maximum voltage range	<ul> <li>AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz</li> <li>High-voltage DC</li> </ul>	<ul> <li>AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz</li> <li>High-voltage DC</li> </ul>	<ul> <li>AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz</li> <li>High-voltage DC</li> </ul>
		input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification)	input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification)	input: 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification)
	Maximum input current	2 A	8 A	2 A
	Maximum power consumption of the device	54 W	<ul> <li>80 W (without PD)</li> <li>914 W (with PD, PD power consumption of 874 W)</li> </ul>	65 W
	Power consumption in the case of 30% traffic load <sup>1</sup>	39 W	59 W	46 W
	Power consumption in the case of 100% traffic load <sup>1</sup>	48 W	68 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
	Number of fan modules	1	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
	Maximum heat dissipation of the device (BTU/hour)	184.3	<ul> <li>Without PDs: 262.7</li> <li>With PDs: 5667</li> </ul>	221.8
Environment parameters	Long-term operating temperature	<ul> <li>0-1800 m altitude: -5°C to +50°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the</li> </ul>	<ul> <li>0-1800 m altitude: -5°C to +50°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the</li> </ul>	<ul> <li>0-1800 m altitude: -5°C to +50°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the</li> </ul>

ltem		CloudEngine S5735-L48T4X-A	CloudEngine S5735-L48P4X-A	CloudEngine S5735-L32ST4X-A
		altitude increases by 220 m.	altitude increases by 220 m.	altitude increases by 220 m.
	Short-term operating temperature <sup>3</sup>	<ul> <li>0-1800 m altitude: -5°C to +55°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>	<ul> <li>0-1800 m altitude: -5°C to +55°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>	<ul> <li>0-1800 m altitude: -5°C to +55°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>
	Storage temperature	-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)
	Operating altitude	5000 m	5000 m	5000 m
	Noise under normal temperature (sound power)	53.3dB (A)	58.9dB (A)	53.3 dB(A)
	Noise under high temperature (sound power)	71.5dB (A)	75dB (A)	74.5 dB(A)
	Noise under normal temperature (sound pressure)	38.5dB (A)	43.8dB (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
	Surge protection specification (power port)	<ul> <li>Differential mode: ± 6 kV</li> <li>Common mode: ±6 kV</li> </ul>	<ul> <li>Differential mode: ± 6 kV</li> <li>Common mode: ±6 kV</li> </ul>	<ul> <li>Differential mode: ± 6 kV</li> <li>Common mode: ±6 kV</li> </ul>
Reliability	MTBF (year) <sup>2</sup>	41.48	61.7	85.87
	MTTR (hour)	2.89	1.94	1.4
	Availability	> 0.99999	> 0.99999	> 0.99999
Certification		<ul> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>	<ul> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>	<ul> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>

### D 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.

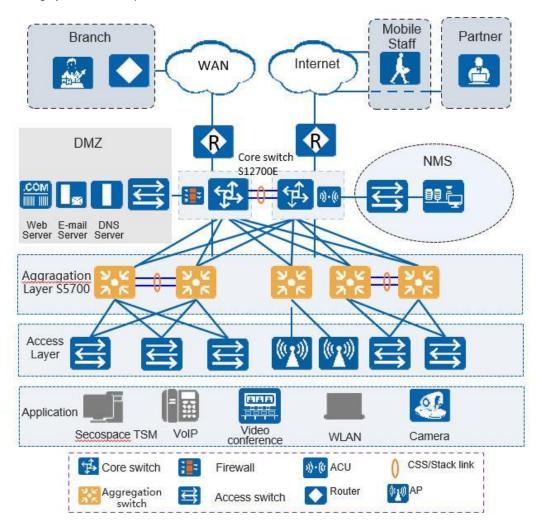
2: The reliability parameter values are calculated based on the typical configuration of the device. The parameter values vary according to the modules configured by the customer.

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**

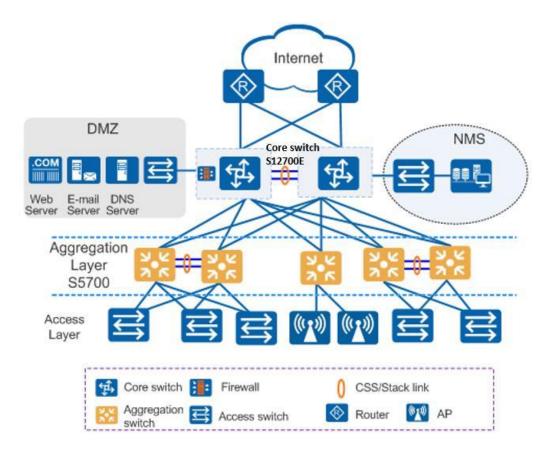
### Large-Scale Enterprise Campus Network

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.



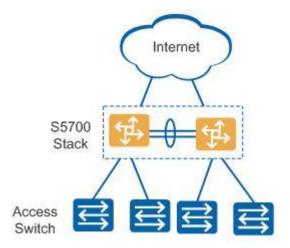
### **Small- or Medium-scale Enterprise Campus Network**

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.



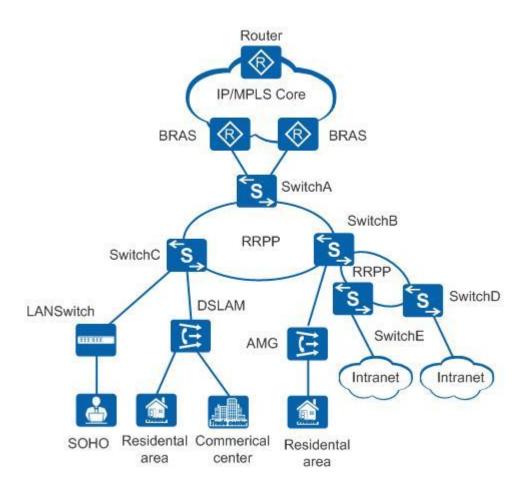
#### **Small-scale Enterprise Campus Network**

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**

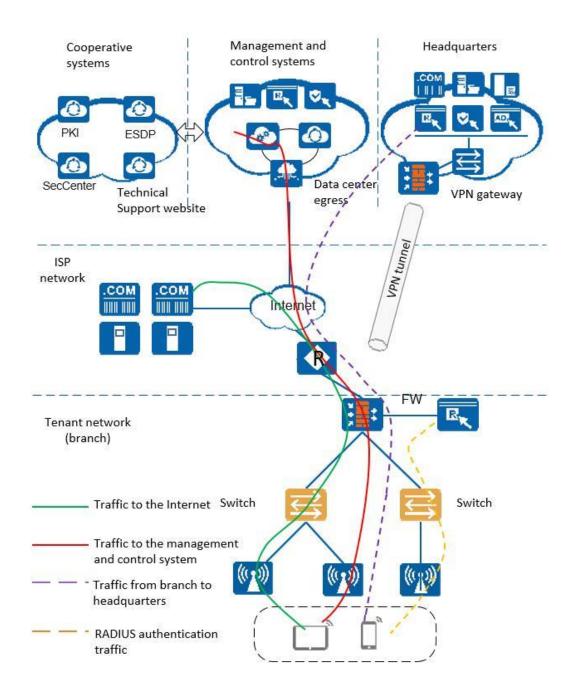
CloudEngine S5735-L series switches can be deployed at the access layer of a MAN(Metropolitan Area Network) to build a high-performance, multi-service, and highly reliable ISP MAN network.



### **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	<ul> <li>IEC 60950-1</li> <li>EN 60950-1/A11/A12</li> <li>UL 60950-1</li> <li>CSA C22.2 No 60950-1</li> <li>AS/NZS 60950.1</li> <li>CNS 14336-1</li> </ul>
Laser safety	<ul> <li>IEC60825-1</li> <li>IEC60825-2</li> </ul>

Certification Category	Description
	• EN60825-1
	• EN60825-2
Electromagnetic	CISPR22 Class A
Compatibility (EMC)	CISPR24
	EN55022 Class A
	• EN55024
	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	МІВ
Public MIB	<ul> <li>BRIDGE-MIB</li> <li>DISMAN-NSLOOKUP-MIB</li> <li>DISMAN-PING-MIB</li> <li>DISMAN-TRACEROUTE-MIB</li> <li>ENTITY-MIB</li> <li>ENTITY-MIB</li> <li>EtherLike-MIB</li> <li>IF-MIB</li> <li>IP-FORWARD-MIB</li> <li>IPV6-MIB</li> <li>LAG-MIB</li> <li>LLDP-EXT-DOT1-MIB</li> <li>LLDP-EXT-DOT3-MIB</li> <li>LLDP-MIB</li> <li>NOTIFICATION-LOG-MIB</li> <li>NQA-MIB</li> <li>P-BRIDGE-MIB</li> <li>Q-BRIDGE-MIB</li> <li>RFC1213-MIB</li> <li>SNMP-FRAMEWORK-MIB</li> <li>SNMP-MOTIFICATION-MIB</li> <li>SNMP-TARGET-MIB</li> <li>SNMP-USER-BASED-SM-MIB</li> <li>SNMPv2-MIB</li> </ul>
	<ul> <li>SNMP-VIEW-BASED-ACM-MIB</li> <li>TCP-MIB</li> <li>UDP-MIB</li> </ul>
Huawei-proprietary MIB	<ul> <li>HUAWEI-AAA-MIB</li> <li>HUAWEI-ACL-MIB</li> <li>HUAWEI-ALARM-MIB</li> <li>HUAWEI-ALARM-RELIABILITY-MIB</li> <li>HUAWEI-BASE-TRAP-MIB</li> <li>HUAWEI-BRAS-RADIUS-MIB</li> <li>HUAWEI-BRAS-SRVCFG-EAP-MIB</li> <li>HUAWEI-BRAS-SRVCFG-STATICUSER-MIB</li> <li>HUAWEI-CBQOS-MIB</li> <li>HUAWEI-CDP-COMPLIANCE-MIB</li> </ul>

Category	МІВ
	HUAWEI-CONFIG-MAN-MIB
	• HUAWEI-CPU-MIB
	• HUAWEI-DAD-TRAP-MIB
	HUAWEI-DATASYNC-MIB
	<ul> <li>HUAWEI-DEVICE-MIB</li> </ul>
	• HUAWEI-DHCPR-MIB
	• HUAWEI-DHCPS-MIB
	<ul> <li>HUAWEI-DHCP-SNOOPING-MIB</li> </ul>
	• HUAWEI-DIE-MIB
	• HUAWEI-DNS-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

Category	мів
	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
	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

### D 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
Organization	<ul> <li>RFC 768 User Datagram Protocol (UDP)</li> <li>RFC 792 Internet Control Message Protocol (ICMP)</li> <li>RFC 793 Transmission Control Protocol (TCP)</li> <li>RFC 826 Ethernet Address Resolution Protocol (ARP)</li> <li>RFC 854 Telnet Protocol Specification</li> <li>RFC 951 Bootstrap Protocol (BOOTP)</li> <li>RFC 959 File Transfer Protocol (FTP)</li> <li>RFC 1058 Routing Information Protocol (RIP)</li> <li>RFC 1112 Host extensions for IP multicasting</li> <li>RFC 1256 ICMP Router Discovery</li> <li>RFC 1305 Network Time Protocol Version 3 (NTP)</li> <li>RFC 1349 Internet Protocol (IP)</li> <li>RFC 1493 Definitions of Managed Objects for Bridges</li> <li>RFC 1542 Clarifications and Extensions for the Bootstrap Protocol</li> <li>RFC 1643 Ethernet Interface MIB</li> <li>RFC 1757 Remote Network Monitoring (RMON)</li> </ul>
	RFC 1901 Introduction to Community-based SNMPv2

Standard Organization	Standard or Protocol
	<ul> <li>RFC 1902-1907 SNMP v2</li> <li>RFC 1981 Path MTU Discovery for IP version 6</li> <li>RFC 2131 Dynamic Host Configuration Protocol (DHCP)</li> <li>RFC 2460 Internet Protocol, Version 6 Specification (IPv6)</li> <li>RFC 2461 Neighbor Discovery for IP Version 6 (IPv6)</li> <li>RFC 2462 IPv6 Stateless Address Auto configuration</li> <li>RFC 2463 Internet Control Message Protocol for IPv6 (ICMPv6)</li> <li>RFC 2474 Differentiated Services Field (DS Field)</li> <li>RFC 2863 The Interfaces Group MIB</li> <li>RFC 2597 Assured Forwarding PHB Group</li> <li>RFC 2598 An Expedited Forwarding PHB</li> <li>RFC 2571 SNMP Management Frameworks</li> <li>RFC 3046 DHCP Option82</li> <li>RFC 3046 DHCP Option82</li> <li>RFC 3513 IP Version 6 Addressing Architecture</li> <li>RFC 3579 RADIUS Support For EAP</li> <li>draft-grant-tacacs-02 TACACS+</li> <li>RFC 6201 YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF)</li> </ul>
IEEE	<ul> <li>IEEE 802.1D Media Access Control (MAC) Bridges</li> <li>IEEE 802.1p Traffic Class Expediting and Dynamic Multicast Filtering</li> <li>IEEE 802.1q Virtual Bridged Local Area Networks</li> <li>IEEE 802.1ad Provider Bridges</li> <li>IEEE 802.2 Logical Link Control</li> <li>IEEE 81d 802.3 CSMA/CD</li> <li>IEEE Std 802.3ab 1000BASE-T specification</li> <li>IEEE Std 802.3ab 1000BASE-T specification</li> <li>IEEE Std 802.3ab 1000BASE-T specification</li> <li>IEEE Std 802.3ac 10GE WEN/LAN Standard</li> <li>IEEE Std 802.3z Gigabit Ethernet Standard</li> <li>IEEE Std 802.3ac Gigabit Ethernet Standard</li> <li>IEEE 802.1ag Connectivity Fault Management</li> <li>IEEE 802.1ab Link Layer Discovery Protocol</li> <li>IEEE 802.1b Spanning Tree Protocol</li> <li>IEEE 802.1s Multiple Spanning Tree Protocol</li> <li>IEEE 802.1x Port based network access control protocol</li> <li>IEEE 802.3af DTE Power via the MDI Enhancements</li> <li>IEEE 802.3az Energy Efficient Ethernet</li> </ul>
ITU	ITU SG13 Y.17ethoam

Standard Organization	Standard or Protocol
	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

## 

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- L12T4S-A	CloudEngine S5735-L12T4S-A (12 x 10/100/1000BASE-T ports, 4 x GE SFP ports, AC power supply)
CloudEngine S5735- L12P4S-A	CloudEngine S5735-L12P4S-A (12 x 10/100/1000BASE-T ports, 4 x GE SFP ports, PoE+, AC power supply)
CloudEngine S5735- L24T4S-A	CloudEngine S5735-L24T4S-A (24 x 10/100/1000BASE-T ports, 4 x GE SFP ports, AC power supply)
CloudEngine S5735- L24P4S-A	CloudEngine S5735-L24P4S-A (24 x 10/100/1000BASE-T ports, 4 x GE SFP ports, PoE+, AC power supply)
CloudEngine S5735- L24T4X-A	CloudEngine S5735-L24T4X-A (24 x 10/100/1000BASE-T ports, 4 x 10 GE SFP+ ports, AC power supply)
CloudEngine S5735- L24P4X-A	CloudEngine S5735-L24P4X-A (24 x 10/100/1000BASE-T ports, 4 x 10 GE SFP+ ports, PoE+, AC power supply)
CloudEngine S5735- L48T4S-A	CloudEngine S5735-L48T4S-A (48 x 10/100/1000BASE-T ports, 4 x GE SFP ports, AC power supply)
CloudEngine S5735- L48T4X-A	CloudEngine S5735-L48T4X-A (48 x 10/100/1000BASE-T ports, 4 x 10 GE SFP+ ports, AC power supply)
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 supply)
PAC1000S56-CB	1000W AC PoE power module, can be used in CloudEngine S5735-L48P4X-A
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

Model	Product Description
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: <a href="http://support.huawei.com/enterprise/">http://support.huawei.com/enterprise/</a>
- Sending an email to the customer service mailbox: support\_e@huawei.com

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