

# 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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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
	<ul style="list-style-type: none"> <li>Switching capacity: 56 Gbps/336 Gbps</li> </ul>
 <p>CloudEngine S5735-L24T4X-A</p>	<ul style="list-style-type: none"> <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>
 <p>CloudEngine S5735-L24P4X-A</p>	<ul style="list-style-type: none"> <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>
 <p>CloudEngine S5735-L48T4S-A</p>	<ul style="list-style-type: none"> <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>
 <p>CloudEngine S5735-L48T4X-A</p>	<ul style="list-style-type: none"> <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>
 <p>CloudEngine S5735-L48P4X-A</p>	<ul style="list-style-type: none"> <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>
 <p>CloudEngine S5735-L32ST4X-A</p>	<ul style="list-style-type: none"> <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>

## Power Supply

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

Power Module	Technical Specifications	Applied Switch Model
 <p>PAC1000S56-CB</p>	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <li>90 V AC to 290 V AC, 45 Hz to 65 Hz</li> <li>190 V DC to 290 V DC</li> </ul> </li> <li>Input current:</li> </ul>	<ul style="list-style-type: none"> <li>CloudEngine S5735-L48P4X-A</li> </ul>

Power Module	Technical Specifications	Applied Switch Model
	<ul style="list-style-type: none"> <li>- 100 V AC to 130 V AC: 12 A</li> <li>- 200 V AC to 240 V AC: 8 A</li> <li>- 240 V DC: 8 A</li> <li>• Maximum output current:               <ul style="list-style-type: none"> <li>- 100 V AC to 130 V AC input: 16.08 A</li> <li>- 200 V AC to 240 V AC input and 240 V DC input: 17.86 A</li> </ul> </li> <li>• Maximum output power:               <ul style="list-style-type: none"> <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> </li> <li>• Hot swap: Supported</li> </ul>	

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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 eMDI 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.

# Product Specifications

## Functions and Features

Function and feature metrics for the CloudEngine S5735-L series

Function and Feature		Description	CloudEngine S5735-L-A
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

Function and Feature		Description	CloudEngine S5735-L-A
		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
		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
	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		

Function and Feature		Description	CloudEngine S5735-L-A	
		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	
		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 protection	MSTP	STP	Yes
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	

Function and Feature		Description	CloudEngine S5735-L-A
		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 routing	IPv4 static routing	Yes
		VRF	Yes
		DHCP client	Yes
		DHCP server	Yes
		DHCP relay	Yes
		Routing policies	Yes
		IPv4 routes	4096
		RIPv1	Yes
		RIPv2	Yes
		OSPF	Yes
		Policy-based routing (PBR)	Yes
		Multicast routing features	IGMPv1/v2/v3
	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



Function and Feature		Description	CloudEngine S5735-L-A
		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 features	-	IGMPv1/v2/v3 snooping	Yes
		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 (Unidirectional)	40Gbps(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 classification	Traffic classification based on ACLs	Yes
		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

Function and Feature		Description	CloudEngine S5735-L-A	
	Traffic shaping	Traffic shaping on an egress interface	Yes	
		Traffic shaping on queues on an interface	Yes	
	Congestion avoidance	Tail drop	Yes	
	Congestion management	Priority Queuing (PQ)	Yes	
		Weighted Deficit Round Robin (WDRR)	Yes	
		PQ+WDRR	Yes	
		Weighted Round Robin (WRR)	Yes	
		PQ+WRR	Yes	
	ACL	Packet filtering at Layer 2 to Layer 4	Number of rules per IPv4 ACL	2K
			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 maintenance	Login and configuration management	Command line interface (CLI)-based configuration	Yes	
		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	

Function and Feature		Description	CloudEngine S5735-L-A
		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
		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 authentication	AAA	Local authentication	Yes
		Local authorization	Yes
		RADIUS authentication	Yes
		RADIUS authorization	Yes
		RADIUS accounting	Yes

Function and Feature		Description	CloudEngine S5735-L-A
		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
		HTTP	Yes
		HTTPS	Yes
		RMON	Yes
		NETCONF/YANG	Yes
		Interoperability	-
Link-type Negotiation Protocol (LNP)	Yes		
VLAN Central Management Protocol (VCMP)	Yes		

## 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

Item		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	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	1 U
	Chassis weight (including packaging)	3.83 kg	4.24 kg	4.08 kg	4.31 kg

Item		CloudEngine S5735-L12T4S-A	CloudEngine S5735-L12P4S-A	CloudEngine S5735-L24T4S-A	CloudEngine S5735-L24P4S-A
Fixed port	GE port	16	16	28	28
	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
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	Built-in AC	Built-in AC	Built-in AC
	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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <li>49 W (without PD)</li> <li>441 W (with PD, PD power consumption of 360 W)</li> </ul>	34 W	<ul style="list-style-type: none"> <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	Natural heat dissipation	Air-cooled heat dissipation and intelligent fan

Item		CloudEngine S5735-L12T4S-A	CloudEngine S5735-L12P4S-A	CloudEngine S5735-L24T4S-A	CloudEngine S5735-L24P4S-A
			speed adjustment		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
Environment parameters	Long-term operating temperature	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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	Silent (fan-free)	43dB(A)	Silent (fan-free)	43dB(A)

Item		CloudEngine S5735-L12T4S-A	CloudEngine S5735-L12P4S-A	CloudEngine S5735-L24T4S-A	CloudEngine S5735-L24P4S-A
	temperature (sound pressure)				
	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)	<ul style="list-style-type: none"> <li>Differential mode: ±6 kV</li> <li>Common mode: ±6 kV</li> </ul>	<ul style="list-style-type: none"> <li>Differential mode: ±6 kV</li> <li>Common mode: ±6 kV</li> </ul>	<ul style="list-style-type: none"> <li>Differential mode: ±6 kV</li> <li>Common mode: ±6 kV</li> </ul>	<ul style="list-style-type: none"> <li>Differential mode: ±6 kV</li> <li>Common mode: ±6 kV</li> </ul>
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 style="list-style-type: none"> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>	<ul style="list-style-type: none"> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>	<ul style="list-style-type: none"> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>	<ul style="list-style-type: none"> <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 port	24	24	52
	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	100 V AC to 240 V	100 V AC to 240 V

Item		CloudEngine S5735-L24T4X-A	CloudEngine S5735-L24P4X-A	CloudEngine S5735-L48T4S-A
		AC, 50/60 Hz	AC, 50/60 Hz	AC, 50/60 Hz
	Maximum voltage range	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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>
	Maximum input current	2 A	6 A	2 A
	Maximum power consumption of the device	43 W	<ul style="list-style-type: none"> <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 case 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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <li>0-1800 m altitude: -5°C to +55°C</li> <li>1800-5000 m altitude: The</li> </ul>	<ul style="list-style-type: none"> <li>0-1800 m altitude: -5°C to +55°C</li> <li>1800-5000 m altitude: The</li> </ul>	<ul style="list-style-type: none"> <li>0-1800 m altitude: -5°C to +55°C</li> <li>1800-5000 m altitude: The</li> </ul>



Item		CloudEngine S5735-L24T4X-A	CloudEngine S5735-L24P4X-A	CloudEngine S5735-L48T4S-A
		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
	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)	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 port)	<ul style="list-style-type: none"> <li>Differential mode: ± 6 kV</li> <li>Common mode: ±6 kV</li> </ul>	<ul style="list-style-type: none"> <li>Differential mode: ± 6 kV</li> <li>Common mode: ±6 kV</li> </ul>	<ul style="list-style-type: none"> <li>Differential mode: ± 6 kV</li> <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 style="list-style-type: none"> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>	<ul style="list-style-type: none"> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>	<ul style="list-style-type: none"> <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	32
	10GE port	4	4	4

Item		CloudEngine S5735-L48T4X-A	CloudEngine S5735-L48P4X-A	CloudEngine S5735-L32ST4X-A
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 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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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>
	Maximum input current	2 A	8 A	2 A
	Maximum power consumption of the device	54 W	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>Without PDs: 262.7</li> <li>With PDs: 5667</li> </ul>	221.8

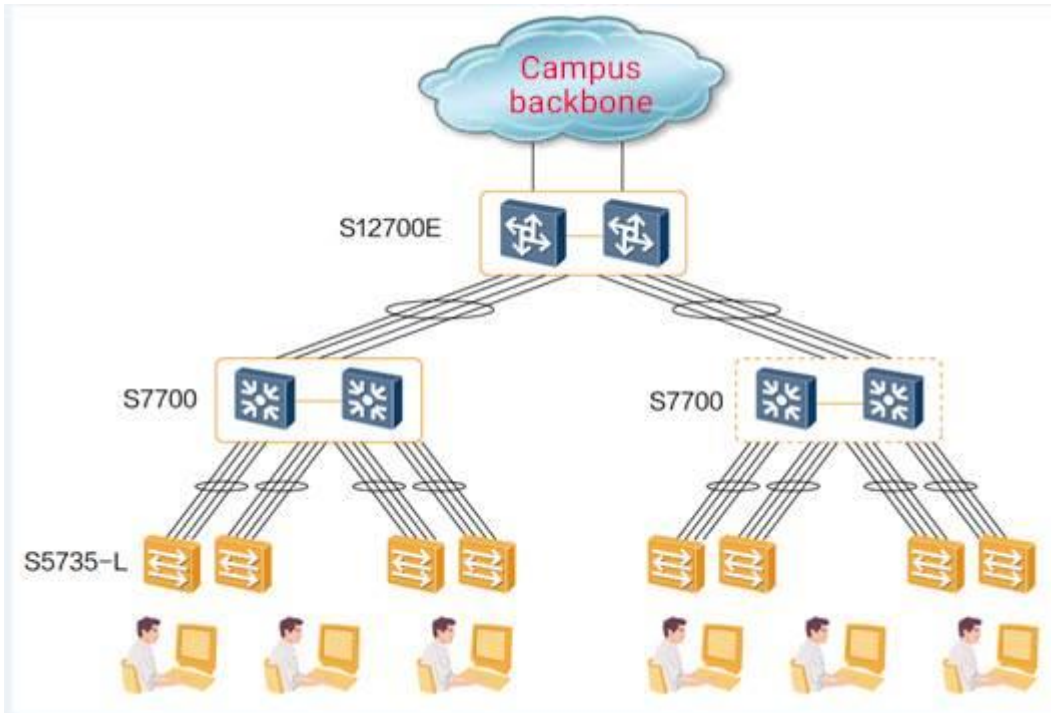
Item		CloudEngine S5735-L48T4X-A	CloudEngine S5735-L48P4X-A	CloudEngine S5735-L32ST4X-A
Environment parameters	Long-term operating temperature	<ul style="list-style-type: none"> <li>0-1800 m altitude: -5°C to +50°C</li> <li>1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.</li> </ul>	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <li>Differential mode: ± 6 kV</li> <li>Common mode: ±6 kV</li> </ul>	<ul style="list-style-type: none"> <li>Differential mode: ± 6 kV</li> <li>Common mode: ±6 kV</li> </ul>	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>	<ul style="list-style-type: none"> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>	<ul style="list-style-type: none"> <li>EMC certification</li> <li>Safety certification</li> <li>Manufacturing certification</li> </ul>

## 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

CloudEngine S5735-L provides PoE, voice VLAN, NAC, and other functions, achieving gigabit-to-the-desktop access.



## Safety and Regulatory Compliance

Safety and regulatory compliance of the CloudEngine S5735-L series

Certification Category	Description
Safety	<ul style="list-style-type: none"><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 style="list-style-type: none"><li>• IEC60825-1</li><li>• IEC60825-2</li><li>• EN60825-1</li><li>• EN60825-2</li></ul>
Electromagnetic	<ul style="list-style-type: none"><li>• CISPR22 Class A</li></ul>

Certification Category	Description
Compatibility (EMC)	<ul style="list-style-type: none"> <li>• CISPR24</li> <li>• EN55022 Class A</li> <li>• EN55024</li> <li>• ETSI EN 300 386 Class A</li> <li>• CFR 47 FCC Part 15 Class A</li> <li>• ICES 003 Class A</li> <li>• AS/NZS CISPR22 Class A</li> <li>• VCCI Class A</li> <li>• EN61000-3-2</li> <li>• EN61000-3-3</li> <li>• IEC61000-4-2</li> <li>• ITU-T K 20</li> <li>• ITU-T K 21</li> <li>• ITU-T K 44</li> <li>• CNS13438</li> </ul>
Environment	<ul style="list-style-type: none"> <li>• RoHS</li> <li>• REACH</li> <li>• WEEE</li> </ul>

#### 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	<ul style="list-style-type: none"> <li>• BRIDGE-MIB</li> <li>• DISMAN-NSLOOKUP-MIB</li> </ul>

Category	MIB
	<ul style="list-style-type: none"> <li>• DISMAN-PING-MIB</li> <li>• DISMAN-TRACEROUTE-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>• RMON-MIB</li> <li>• SAVI-MIB</li> <li>• SNMP-FRAMEWORK-MIB</li> <li>• SNMP-MPD-MIB</li> <li>• SNMP-NOTIFICATION-MIB</li> <li>• SNMP-TARGET-MIB</li> <li>• SNMP-USER-BASED-SM-MIB</li> <li>• SNMPv2-MIB</li> <li>• SNMP-VIEW-BASED-ACM-MIB</li> <li>• TCP-MIB</li> <li>• UDP-MIB</li> </ul>
Huawei-proprietary MIB	<ul style="list-style-type: none"> <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> <li>• HUAWEI-CONFIG-MAN-MIB</li> <li>• HUAWEI-CPU-MIB</li> <li>• HUAWEI-DAD-TRAP-MIB</li> <li>• HUAWEI-DATASYNC-MIB</li> <li>• HUAWEI-DEVICE-MIB</li> <li>• HUAWEI-DHCPR-MIB</li> <li>• HUAWEI-DHCPS-MIB</li> </ul>

Category	MIB
	<ul style="list-style-type: none"> <li>• HUAWEI-DHCP-SNOOPING-MIB</li> <li>• HUAWEI-DIE-MIB</li> <li>• HUAWEI-DNS-MIB</li> <li>• HUAWEI-DLDP-MIB</li> <li>• HUAWEI-ERPS-MIB</li> <li>• HUAWEI-ERRORDOWN-MIB</li> <li>• HUAWEI-ENERGYMNGT-MIB</li> <li>• HUAWEI-EASY-OPERATION-MIB</li> <li>• HUAWEI-ENTITY-EXTENT-MIB</li> <li>• HUAWEI-ENTITY-TRAP-MIB</li> <li>• HUAWEI-ETHARP-MIB</li> <li>• HUAWEI-ETHOAM-MIB</li> <li>• HUAWEI-FLASH-MAN-MIB</li> <li>• HUAWEI-FWD-RES-TRAP-MIB</li> <li>• HUAWEI-GARP-APP-MIB</li> <li>• HUAWEI-GTL-MIB</li> <li>• HUAWEI-HGMP-MIB</li> <li>• HUAWEI-HWTACACS-MIB</li> <li>• HUAWEI-IF-EXT-MIB</li> <li>• HUAWEI-INFOCENTER-MIB</li> <li>• HUAWEI-IPPOOL-MIB</li> <li>• HUAWEI-IPV6-MIB</li> <li>• HUAWEI-ISOLATE-MIB</li> <li>• HUAWEI-L2IF-MIB</li> <li>• HUAWEI-L2MAM-MIB</li> <li>• HUAWEI-L2VLAN-MIB</li> <li>• HUAWEI_LDT-MIB</li> <li>• HUAWEI-LLDP-MIB</li> <li>• HUAWEI-MAC-AUTHEN-MIB</li> <li>• HUAWEI-MEMORY-MIB</li> <li>• HUAWEI-MFF-MIB</li> <li>• HUAWEI-MFLP-MIB</li> <li>• HUAWEI-MSTP-MIB</li> <li>• HUAWEI-MULTICAST-MIB</li> <li>• HUAWEI-NTPV3-MIB</li> <li>• HUAWEI-PERFORMANCE-MIB</li> <li>• HUAWEI-PERFMGMT-MIB</li> <li>• HUAWEI-PORT-MIB</li> <li>• HUAWEI-PORTAL-MIB</li> <li>• HUAWEI-QINQ-MIB</li> <li>• HUAWEI-RM-EXT-MIB</li> <li>• HUAWEI-RRPP-MIB</li> <li>• HUAWEI-SECURITY-MIB</li> <li>• HUAWEI-SEP-MIB</li> <li>• HUAWEI-SNMP-EXT-MIB</li> </ul>

Category	MIB
	<ul style="list-style-type: none"> <li>• HUAWEI-SSH-MIB</li> <li>• HUAWEI-STACK-MIB</li> <li>• HUAWEI-SWITCH-L2MAM-EXT-MIB</li> <li>• HUAWEI-SWITCH-SRV-TRAP-MIB</li> <li>• HUAWEI-SYS-MAN-MIB</li> <li>• HUAWEI-TCP-MIB</li> <li>• HUAWEI-TFTPC-MIB</li> <li>• HUAWEI-TRNG-MIB</li> <li>• HUAWEI-UNIMNG-MIB</li> <li>• HUAWEI-USA-MIB</li> <li>• HUAWEI-XQOS-MIB</li> </ul>

### 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	<ul style="list-style-type: none"> <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 1157 A Simple Network Management Protocol (SNMP)</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> <li>• RFC 1901 Introduction to Community-based SNMPv2</li> <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> </ul>



Standard Organization	Standard or Protocol
	<ul style="list-style-type: none"> <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 2865 Remote Authentication Dial In User Service (RADIUS)</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 6241 Network Configuration Protocol (NETCONF)</li> <li>• RFC 6020 YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF)</li> </ul>
IEEE	<ul style="list-style-type: none"> <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 Std 802.3 CSMA/CD</li> <li>• IEEE Std 802.3ab 1000BASE-T specification</li> <li>• IEEE Std 802.3ad Aggregation of Multiple Link Segments</li> <li>• IEEE Std 802.3ae 10GE WEN/LAN Standard</li> <li>• IEEE Std 802.3x Full Duplex and flow control</li> <li>• IEEE Std 802.3z Gigabit Ethernet Standard</li> <li>• IEEE802.1ax/IEEE802.3ad Link Aggregation</li> <li>• IEEE 802.3ah Ethernet in the First Mile</li> <li>• IEEE 802.1ag Connectivity Fault Management</li> <li>• IEEE 802.1ab Link Layer Discovery Protocol</li> <li>• IEEE 802.1D Spanning Tree Protocol</li> <li>• IEEE 802.1w Rapid 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 MIDI</li> <li>• IEEE 802.3at DTE Power via the MDI Enhancements</li> <li>• IEEE 802.3az Energy Efficient Ethernet</li> </ul>
ITU	<ul style="list-style-type: none"> <li>• ITU SG13 Y.17ethoam</li> <li>• ITU SG13 QoS control Ethernet-Based IP Access</li> <li>• ITU-T Y.1731 ETH OAM performance monitor</li> </ul>
MEF	<ul style="list-style-type: none"> <li>• MEF 2 Requirements and Framework for Ethernet Service Protection</li> <li>• MEF 9 Abstract Test Suite for Ethernet Services at the UNI</li> <li>• MEF 11 UNI Requirements and Framework</li> <li>• MEF 15 Requirements for Management of Metro Ethernet Phase 1 Network Elements</li> <li>• MEF 17 Service OAM Framework and Requirements</li> </ul>

Standard Organization	Standard or Protocol
	<ul style="list-style-type: none"> <li>MEF 20 UNI Type 2 Implementation Agreement</li> <li>MEF 23 Class of Service Phase 1 Implementation Agreement</li> <li>XMODEM/YMODEM Protocol Reference</li> </ul>

## 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-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

## 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](mailto:support_e@huawei.com)

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