

CloudEngine S5736-S Series All-Optical Switches

CloudEngine S5736-S series switches are next-generation standard all-optical GE access switches that provide 24-port and 48-port models, and provide four 10GE ports and one extended slot(optional).

Introduction

CloudEngine S5736-S series all-optical GE access switches are developed based on next-generation high-performing hardware and the Huawei Versatile Routing Platform (VRP), support enhanced Layer 3 features simplified operations and maintenance (O&M), flexible Ethernet networking and mature IPv6 features. CloudEngine S5736-S switches can be used in various scenarios. For example, it can be used as an access or aggregation switch on a campus network or as an access switch for Metropolitan Area Network.

Product Overview

The following models are available in the CloudEngine S5736-S series.

Models and appearances of the Cloud Engine S5736-S series

Models and Appearances	Description
CloudEngine S5736-S24S4XC	 24 x GE SFP ports, 4 x 10 GE SFP+ ports One extended slot 1+1 power supplybackup Forwarding performance: 240 Mpps Switching capacity: 448 Gbps/1.36 Tbps
CloudEngine S5736-S48S4XC	 48 x GE SFP ports, 4 x 10 GE SFP+ ports One extended slot 1+1 power supplybackup Forwarding performance: 240 Mpps Switching capacity: 496 Gbps/1.36 Tbps
CloudEngine S5736-S48S4X-A	 48 x GE SFP ports, 4 x 10 GE SFP+ ports Built-in AC power Forwarding performance: 480 Mpps Switching capacity: 1.04 Tbps/2.72 Tbps Note: All ports support GE by default. You can purchase right-to-use (RTU) licenses to upgrade the port rate from GE to 10GE.

Models and Appearances • 48 x GE SFP ports, 4 x 10 GE SFP+ ports • Built-in DC power • Forwarding performance: 480 Mpps • Switching capacity: 1.04 Tbps/2.72 Tbps Note: All ports support GE by default. You can purchase right-to-use (RTU) licenses to upgrade the port rate from GE to 10GE.

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.

Models and Appearances

Subcards

The following table lists the subcards applicable to the CloudEngine S5736-S.

Technical specifications of the subcards applicable to the CloudEngine S5736-S series

Subcards	Technical Specifications	Applied Switch Model
S7Q02001	 2*40GE QSFP+ Operating temperature: 0°C to 45°C (32°F to 113°F) Relative humidity: 5% RH to 95% RH Storage temperature: -40°C to +70°C (-40°F to +158°F) Note: Only V200R021C01 and later versions 	CloudEngine S5736-S24S4XC CloudEngine S5736-S48S4XC
ES5D21Q04Q01	 4*40GE QSFP+ Operating temperature: 0°C to 45°C (32°F to 113°F) Relative humidity: 5% RH to 95% RH Storage temperature: -40°C to +70°C (-40°F to +158°F) 	
S7X08000	 8*10GE SFP+ or 2*25GE SFP28 Operating temperature: 0°C to 45°C (32°F to 113°F) Relative humidity: 5% to 95% Storage temperature: -40°C to +70°C (-40°F to +158°F) Note: The 8*10GE SFP+ subcard works as 8*10GE SFP+ by default, and can be changed to 2*25GE SFP28 as required. 	

Fan Models

The following table lists the fan module applicable to the CloudEngine S5736-S.

Technical specifications of the fan module applicable to the CloudEngine S5736-S series

an Module	Technical Specifications	Applied Switch Model
-----------	--------------------------	----------------------

Fan Module	Technical Specifications	Applied Switch Model
FAN-023A-B	 Dimensions (W x D x H): 40 mm x 100.3 mm x 40 mm Number of fans: 1 Weight: 0.1 kg Maximum power consumption: 7.2 W Maximum fan speed: 18500±10% revolutions per minute (RPM) Maximum wind rate: 23 cubic feet per minute (CFM) Hot swap: Supported 	 CloudEngine S5736-S24S4XC CloudEngine S5736-S48S4XC

Power Supply

Technical specifications of the power supplies applicable to the CloudEngine S5736-S series

Power Module	Technical Specifications	Applied Switch Model
PAC150S12-R	 Dimensions (H x W x D): 40 mm x 90 mm x 215 mm (1.6 in. x 3.5 in. x 8.5 in.) Weight: 0.8 kg (1.76 lb) Rated input voltage range: 100 V AC to 240 V AC, 50/60 Hz Maximum input voltage range: 90 V AC to 264 V AC, 47 Hz to 63 Hz Maximum input current: 3 A Maximum output current: 12.5 A Maximum output power: 150 W Hot swap: Supported 	 CloudEngine S5736-S24S4XC CloudEngine S5736-S48S4XC
PDC180S12-CR	 Dimensions (H x W x D): 40 mm x 90 mm x 215 mm (1.6 in. x 3.5 in. x 8.5 in.) Weight: 0.8 kg (1.76 lb) Rated input voltage range: -48 V DC to -60 V DC Maximum input voltage range: -38.4 V DC to -72 V DC Maximum input current: 6 A Maximum output current: 3.75 A Maximum output power: 180 W Hot swap: Supported 	 CloudEngine S5736-S24S4XC CloudEngine S5736-S48S4XC
PAC600S12-CB	 Dimensions (H x W x D): 40 mm x 90 mm x 215 mm (1.6 in. x 3.5 in. x 8.5 in.) Weight: 0.95 kg (2.09 lb) Rated input voltage range: - 100 V AC to 240 V AC, 50/60 Hz - 240 V DC Maximum input voltage range: - 90 V AC to 290 V AC, 45 Hz to 65 Hz - 190 V DC to 290 V DC Maximum input current: 	 CloudEngine S5736-S24S4XC CloudEngine S5736-S48S4XC

Power Module	Technical Specifications	Applied Switch Model
	100 V AC to 240 V AC: 8 A240 V DC: 4 A	
	 Maximum output current: 50 A Rated output voltage: 12 V Maximum output power: 600 W 	
	 Hot swap: Supported Dimensions (H x W x D): 40 mm x 90 mm x 215 mm (1.6 in. x 3.5 in. x 8.5 in.) Weight: 1.02 kg (2.25 lb) Rated input voltage range: -48 V DC to -60 V DC Maximum input voltage range: -38.4 V DC to -72 V 	CloudEngine S5736-S24S4XCCloudEngine S5736-S48S4XC
PDC1000S12-DB	Maximum input voltage range: -38.4 v DC to -72 v DC Maximum input current: 30 A Maximum output current: 83.3 A Maximum output power: 1000 W Hot swap: Supported	

Product Features and Highlights

Flexible Port Access On-demand

• CloudEngine S5736-S series switches provide 48 downlink optical ports and four 10GE uplink optical ports. Based on the innovative RTU mode(only S5736-S48S4X-A/D support), the downlink port rate can be increased on demand. With the rapid growth of services, the rate can be smoothly upgraded from 1 Gbit/s to 10 Gbit/s, maximizing the investment on the existing network.

Powerful Service Processing Capability

- CloudEngine S5736-S supports a broad set of Layer 2/Layer 3 multicast protocols, such as PIM SM, PIM DM, PIM SSM, MLD, and IGMP snooping. This capability is ideal for high-definition video backhaul and video conferencing access.
- CloudEngine S5736-S provides multiple Layer 3 features including OSPF, IS-IS, BGP, and VRRP, meeting enterprises' access and aggregation service needs and enabling a variety of voice, video, and data applications.

Flexible Ethernet Networking

- In addition to traditional Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), and Multiple Spanning Tree Protocol (MSTP), the CloudEngine S5736-S supports Huawei-developed Smart Ethernet Protection (SEP) technology and the latest Ethernet Ring Protection Switching (ERPS) standard. 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. It implements millisecond-level protection switching based on traditional Ethernet MAC and bridging functions.
- The CloudEngine S5736-S supports Smart Link and Virtual Router Redundancy Protocol (VRRP), which implement backup of uplinks. One CloudEngine S5736-S switch can connect to multiple aggregation switches through multiple links, significantly improving reliability of access devices.

Various Security Control Methods

- The CloudEngine S5736-S supports 802.1x authentication, MAC address authentication, Portal authentication, and hybrid authentication, and can dynamically delivery user policies such as VLANs, QoS policies, and access control lists (ACL). It also supports user management based on user groups.
- The CloudEngine S5736-S provides a series of mechanisms to defend against DoS 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 change of the DHCP CHADDR value.

- The CloudEngine S5736-S sets up and maintains a DHCP snooping binding table, and discards the packets that do not match the table entries. You can specify DHCP snooping trusted and untrusted ports to ensure that users connect only to the authorized DHCP server.
- The CloudEngine S5736-S supports strict ARP learning, which prevents ARP spoofing attackers from exhausting ARP entries.
- The CloudEngine S5736-S supports Media Access Control Security (MACsec) with the port of subcard (8*10GE SFP+ subcard). It provides identity authentication, data encryption, integrity check, and replay protection to protect Ethernet frames and prevent attack packets.

Easy Network deployment

- CloudEngine S5736-S supports Super Virtual Fabric (SVF), which innovatively virtualizes the "core/aggregation switch + access switch + AP" into one logical device. This simplifies device management and achieves plug-and-playfor access switches and APs. In addition, CloudEngine S5736-S supports service configuration templates. The templates are configured on core devices and automatically delivered to access devices, enabling centralized control, simplified service configuration, and flexible configuration adjustment. CloudEngine S5736-S functions as a client in an SVF system.
- CloudEngine S5736-S 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 capabilities facilitate device deployment, upgrade, service provisioning, and other management and maintenance operations, and also greatly reduce O&M costs. CloudEngine S5736-S can be managed using SNMP v1/v2c/v3, CLI, web-based network management system, or SSH v2.0. Additionally, it supports RMON, multiple log hosts, port traffic statistics collection, and network quality analysis, which facilitate network optimization and reconstruction.

Mature IPv6 Features

• The CloudEngine S5736-S is developed based on the mature, stable VRP and supports IPv4/IPv6 dual stacks, IPv6 routing protocols (RIPng, OSPFv3, BGP4+, and IS-IS for IPv6). With these IPv6 features, the CloudEngine S5736-S can be deployed on a pure IPv4 network, a pure IPv6 network, or a shared IPv4/IPv6 network, helping achieve IPv4-to-IPv6 transition.

Intelligent Stack (iStack)

• The CloudEngine S5736-S supports the iStack function that 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 a stack's ports, bandwidth, and processing capacity by simply adding member switches. iStack also simplifies device configuration and management. After a stack is set up, up to nine physical switches can be 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.

Note: CloudEngine S5736-S series all-optical switches can stack with CloudEngine S5736-S series Multi-GE switches.

Intelligent O&M

- The CloudEngine S5736-S provides telemetry technology to collect device data in real time and send the data to Huawei campus network analyzer Campus Insight. The Campus Insight 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.
- The CloudEngine S5736-S 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 Campus Insight platform. In this way, the Campus Insight platform can quickly demarcate audio and video service quality faults based on the results of multiple monitored nodes.

VXLAN Features

- VXLAN is used to construct a Unified Virtual Fabric (UVF). As such, multiple service networks or tenant networks can be deployed on the same physical network, and service and tenant networks are isolated from each other. This capability truly achieves 'one network for multiple purposes'. The resulting benefits include enabling data transmission of different services or customers, reducing the network construction costs, and improving network resource utilization.
- The CloudEngine S5736-S series switches are hardware ready to support VXLAN and allow centralized and distributed VXLAN gateway deployment modes. These switches also support the BGP EVPN protocol for dynamically establishing VXLAN tunnels and can be configured using NETCONF/YANG.

Intelligent Upgrade

- Switches support the intelligent upgrade feature. Specifically, switches obtain the version upgrade path and download 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).

Open Programmability System(OPS)

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

Licensing

IDN One Software

CloudEngine S5736-S supports both the traditional feature-based licensing mode and the latest Huawei IDN One Software (N1 mode for short) licensing mode. The N1 mode is ideal for deploying Huawei CloudCampus Solution in the on-premises scenario, as it greatly enhances the customer experiences in purchasing and upgrading software services with simplicity.

Software Package Features in N1 Mode

Switch Functions	N1 Basic Software	N1 Foundation Software Package	N1 Advanced Software Package
Basic network functions:	V	\checkmark	\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	1
Basic automation: Plug-and-play			
Basic monitoring: Application visualization			
NE management: Image and topology management and discovery			
Advanced network automation and intelligent O&M: User access authentication and CampusInsight basic functions	×	×	V

RTU license

CloudEngine S5736-S series all-optical switches use the innovative RTU license design. The RTU license is used to flexibly manage and control downlink GE ports. The switches can be configured and upgraded on demand, when working with Wi-Fi 6 APs, aggregation switches, and core switches, they can quickly build a flexible campus network to meet actual service requirements, enable customers' networks and services to grow together, and avoid excessive investment

RTU license

RTU license description	CloudEngine S5736-S48S4X-A/D
SPF 1G to 10G Electronic RTU License	√

Note: Only V200R020C30 and later versions can support N1 mode and RTU

Product Specifications

Functions and Features

Except for special instructions, the following features are supported by CloudEngine S5736-S with N1 basic software.

Function and feature metrics for the CloudEngine S5736-S series

Function and Feature		Description	CloudEngine S5736-S Series
Ethernet features	thernet features Ethernet basics	Full-duplex, half-duplex, and autonegotiation	Yes
		Rate auto-negotiation on an interface	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
		Unknown unicast traffic suppression on an interface	Yes
		VLAN broadcasttraffic 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

Function and Fea	iture	Description	CloudEngine S5736-S Series
		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
		Super-VLAN	Yes
		Super-VLAN specification	256
		Sub-VLAN	Yes
		Sub-VLAN specification	1K
		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	32K
		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
		Configuring MAC address learning priorities for interfaces	Yes
		MAC address spoofing defense	Yes

Function and Fea	ature	Description	CloudEngine S5736-S Series
		Port bridge	Yes
	ARP	Static ARP	Yes
		Dynamic ARP	Yes
		ARP entry	20K
		ARP aging detection	Yes
		Intra-VLAN proxy ARP	Yes
		Inter-VLAN proxy ARP	Yes
		Routed proxy ARP	Yes
		Multi-egress-interface 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
	SmartLink	SmartLink	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	IPv4 and unicast	IPv4 static routing	Yes
forwarding	routing	VRF	Yes

Function and Fea	ature	Description	CloudEngine S5736-S Series
		DHCP client	Yes
		DHCPserver	Yes
		DHCPrelay	Yes
		DHCP policy VLAN	Yes
		URPF check	Yes
		Routing policies	Yes
		IPv4 routes	8K
		RIP√1	Yes
		RIPv2	Yes
		OSPF	Yes
		BGP	Yes
		MBGP	Yes
		IS-IS	Yes
		Policy-based routing (PBR)	Yes
	Multicast routing	IGMPv1/v2/v3	Yes
	features	PIM-DM	Yes
		PIM-SM	Yes
		MSDP	Yes
		IPv4 multicast routes	1.5K
		IPv6 multicast routes	500
		Multicast routing policies	Yes
		RPF	Yes
	IPv6 features	IPv6 protocol stack	Yes
		ND	Yes
		ND entry	10K
		ND snooping	Yes
		DHCPv6 snooping	Yes
		RIPng	Yes
		DHCPv6 server	Yes
		DHCPv6 relay	Yes
		OSPFv3	Yes
		BGP4+	Yes
		IS-IS for IPv6	Yes
		IPv6 routes	4K

Function and Fea	ature	Description	CloudEngine S5736-S Series
		VRRP6	Yes
		MLDv1/v2	Yes
		PIM-DM for IPv6	Yes
		PIM-SM for IPv6	Yes
	IPv6 transition technology	IPv6 manual tunneling	Yes
Layer 2 multicast	-	IGMPv1/v2/v3 snooping	Yes
features		IGMP snooping proxy	Yes
		MLD snooping	Yes
		Multicast traffic suppression	Yes
		Inter-VLAN multicast replication	Yes
VPN	VPN	MCE	Yes
		Ping based-on VPN	Yes
		Telnet based-on VPN	Yes
		Trace based-on VPN	Yes
		VPN-Instance(IPV4)	64
		VPN-Instance(IPV6)	64
		Interface per VPN	64
Device reliability	BFD	Single-hop BFD	Yes
		BFD for static routes	Yes Yes
		BFD for OSPF	
		BFD for IS-IS	Yes
		BFD for BGP	Yes
		BFD for PIM	Yes
		BFD for VRRP	Yes
	Stacking	Service interface-based stacking	Yes
		Maximum number of stacked devices	9
		Stack bandwidth (Bidirectional)	320Gbps(MAX)
	VRRP	VRRP standard protocol	Yes
Ethernet OAM	EFM (802.3ah)	Automatic discovery of links	Yes
		Link fault detection	Yes
		Link troubles hooting	Yes
		Remote loopback	Yes
	CFM (802.1ag)	Software-level CCM	Yes
		802.1ag MAC ping	Yes

Function and Fea	ature	Description	CloudEngine S5736-S Series
		802.1ag MAC trace	Yes
	OAM association	Association between 802.1ag and 802.3ah	Yes
	Y.1731	Unidirectional delayand jitter measurement	Yes
		Bidirectional delayand jitter measurement	Yes
QoS features	Traffic	Traffic classification based on ACLs	Yes
	classification	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	Weighted Random Early Detection (WRED) on queues	Yes
		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	Basic IPv4 ACL	Yes
	Layer 2 to Layer 4	Advanced IPv4 ACL	Yes
		Basic IPv6 ACL	Yes
		Advanced IPv6 ACL	Yes
		Layer 2 ACL	Yes
		User group ACL	Yes
		User-defined ACL	Yes
Configuration and maintenance	Login and configuration	Command line interface (CLI)-based configuration	Yes
	management	Console terminal service	Yes
		Telnet terminal service	Yes
		SSH v1.5	Yes
		SSH v2.0	Yes
		SNMP-based NMS for unified configuration	Yes

Function and Feature		Description	CloudEngine S5736-S Series
		Web page-based configuration and management	Yes
		EasyDeploy(client)	Yes
		EasyDeploy(commander)	Yes
		SVF	Yes
		Cloud management	Yes
		OPS	Yes
	File system	Directory and file management	Yes
		File upload and download	Yes
	Monitoring and	eMDI	Yes
	maintenance	Hardware monitoring	Yes
		Log information output	Yes
		Alarm information output	Yes
		Debugging information output	Yes
		Port mirroring	Yes
		Flow mirroring	Yes
		Remote mirroring	Yes Yes Yes Yes
		Energysaving	
	Version upgrade	Version upgrade	Yes
		Version rollback	Yes
Security	ARP security	ARP packet rate limiting	Yes
		RP anti-spoofing	Yes
		Association between ARP and STP	Yes
		ARP gateway anti-collision	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	1000
		IPSG for IPv6	Yes
		IPSGv6 user capacity	512
	MACSEC	MACSec-256	Yes(with 8*10GE subcard)
	Local attack defense	CPU attack defense	Yes

Function and Fea	ature	Description	CloudEngine S5736-S Series
	MFF	MFF	Yes
	DHCPsnooping	DHCPsnooping	Yes
		Option 82 function	/es
		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 Yes Yes Yes Yes Yes Yes Yes
		MAC address authentication	
		Portal authentication	
		Hybrid authentication	
	Policy association	Functioning as the control device	Yes
Network	-	Ping	Yes
management		Tracert	Yes
		NQA	Yes
		NTP	Yes
		iPCA	Yes
		Smart Application Control (SAC)	Yes
		NetStream	Yes
		SNMP v1	Yes
		SNMP v2c	Yes
		SNMP v3	Yes
		НТТР	Yes

Function and Fea	iture	Description	CloudEngine S5736-S Series
		HTTPS	Yes
		RMON	Yes
		RMON2	Yes
		NETCONF/YANG	Yes
VXLAN*	-	VXLAN Layer 2 gateway	Yes
		VXLAN Layer 3 gateway	Yes
		Centralized gateway	Yes
		Distributed gateway	Yes
		BGP-EVPN	Yes
		BGP-EVPN neighbor capacity	Yes
Interoperability	-	VLAN-based Spanning Tree (VBST)	Yes
		Link-type Negotiation Protocol (LNP)	Yes
		VLAN Central Management Protocol (VCMP)	Yes

^{*}Hardware ready

□ NOTE

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

Hardware Specifications

The following table lists the hardware specifications of the CloudEngine S5736-S.

 $Hardware\,specifications\,of\,the\,CloudEngine\,S5736-S24S4XC/-S48S4XC\,m\,odels$

Item		CloudEngine S5736-S24S4XC	CloudEngine S5736-S48S4XC
Physical specifications	Dimensions (H x W x D, mm)	43.6 mm x 442 mm x 420 mm	43.6 mm x 442 mm x 420 mm
	Chassisheight	1 U	1 U
	Chassis weight (including packaging)	8.2 kg	8.6kg
Fixed port	GE port	24	48
	10GE port	4	4
Extended slot		One extended slot, support 4 x 40GE QSFP+, 2 x 40GE QSFP+ and 8 x 10GE SFP+ cards*	
Management port	ETH management port	Supported	Supported
	Console port (RJ45)	Supported	Supported
	USB port	USB 2.0	USB 2.0
CPU	Frequency	1.2GHz	1.2GHz
	Cores	4	4

Item		CloudEngine S5736-S24S4XC	CloudEngine S5736-S48S4XC
Storage	Memory (RAM)	2 GB	2 GB
	Flash memory	1 GB	1 GB
Power supply system	Powersupplytype	150 W AC600 W AC180 W DC1000 W DC	 150 W AC 600 W AC 180 W DC 1000 W DC
	Power supply redundancy	1+1 NOTE The backup power supply is optional.	1+1 NOTE The backup power supply is optional.
	Rated voltage range	 AC input (150/600 W AC): 100 V AC to 240 V AC, 50/60 Hz DC input (180/1000 W DC): -48 VDC to -60 V DC 	 AC input (150/600 W AC): 100 V AC to 240 V AC, 50/60 Hz DC input (180/1000 W DC): -48 VDC to -60 V DC
	Maximum voltage range	 AC input (150/600 W AC): 90 V AC to 290 V AC, 45 Hz to 65 Hz High-voltage DC input (600 W AC): 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) DC input (180/1000 W DC): -38.4 V DC to -72V DC 	 AC input (150/600 W AC): 90 V AC to 290 V AC, 45 Hz to 65 Hz High-voltage DC input (600 W AC): 190 V DC to 290 V DC (meeting 240 V high-voltage DC certification) DC input (180/1000 W DC): -38.4 V DC to -72V DC
	Maximum input current	150W AC: 3A180W DC: 6A600W AC: 8A1000W DC: 30A	150W AC: 3A180W DC: 6A600W AC: 8A1000W DC: 30A
	Maximum power consumption of the device	74W	100W
	Power consumption in the case of 30% traffic load ¹	63 W	87 W
	Power consumption in the case of 100% traffic load ¹	64 W	89 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
	Number of fan modules	2	2
	Airflow	Air flows in from the left, right sides and front panel, exhausts from the rear panel	Air flows in from the left, right sides and front panel, exhausts from the rear panel
	Maximum heat dissipation of the device (BTU/hour)	225.2	341.21

Item		CloudEngine S5736-S24S4XC	CloudEngine S5736-S48S4XC
Environment parameters	Long-term operating temperature	 0-1800 m altitude: -5°C to +45°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. 	 0-1800 m altitude: -5°C to +45°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.
	Short-term operating temperature ³	 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m. 	 0-1800 m altitude: -5°C to +50°C 1800-5000 m altitude: The operating temperature reduces by 1°C every time the altitude increases by 220 m.
	Storage temperature	-40°C to +70°C	-40°C to +70°C
	Relative humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)
	Operating altitude	5000 m	5000 m
	Noise under normal temperature (sound power)	49.9 db(A)	49.9 db(A)
	Noise under high temperature (sound power)	73.9 db(A)	73.9 db(A)
	Noise under normal temperature (sound pressure)	37.8 db(A)	37.8 db(A)
	Surge protection specification (power port)	 AC power port: ±6 kV in differential mode, ±6 kV in common mode DC power port: ±2 kV in differential mode, ±4 kV in common mode 	 AC power port: ±6 kV in differential mode, ±6 kV in common mode DC power port: ±2 kV in differential mode, ±4 kV in common mode
Reliability	MTBF (year) ²	65.79	53.69
	MTTR (hour)	2	2
	Availability	> 0.99999	> 0.99999
Certification		EMC certificationSafety certificationManufacturing certification	EMC certificationSafety certificationManufacturing certification

^{*}Note: The 8*10GE SFP+ subcard works as 8*10GE SFP+ by default, and can be changed to 2*25GE SFP28 as required.

$Hardware\,specifications\,of\,CloudEngine\,S5736\text{-}S\,models$

Item		CloudEngine S5736-S48S4X-A	CloudEngine S5736-S48S4X-D
Physical specifications	Dimensions (H x W x D, mm)	43.6 x 442 x 220	43.6 x 442 x 220
	Chassisheight	1 U	1 U
	Chassis weight (including packaging)	4.7kg	4.3kg
Fixed port	Multi-GE port	48	48
	10GE SFP+ port	4	4

Item		CloudEngine S5736-S48S4X-A	CloudEngine S5736-S48S4X-D
Management	ETH port	Supported	Supported
port	Console port (RJ45)	Supported	Supported
CPU	Frequency	1.2 GHz	1.2 GHz
	Cores	4	4
Storage	Memory (RAM)	2 GB	2 GB
	Flash memory	1 GB	1 GB
Powersupply	Powersupplytype	Built-in AC	Built-in DC
system	Rated voltage range	 AC input: 100 V AC to 240 V AC, 50/60 Hz High-voltage DC input: 240 V DC 	DC input: -48 V DC to -60 V DC
	Maximum voltage range	 AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz High-voltage DC input: 190 V DC to 290 V DC (meeting 240 V high- voltage DC certification) 	DC input: -36 V DC to -72 V DC
	Maximum power consumption	111 W	108 W
	Power consumption in the case of 30% traffic load ¹	87 W	87 W
	Power consumption in the case of 100% traffic load ¹	92 W	92 W
	Minimum power consumption	39 W	39 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
	Number of fan modules	3	3
	Airflow	Air flows in from the left side and front panel, and exhausts from the right side	Air flows in from the left side and front panel, and exhausts from the right side
	Maximum heat dissipation of the device (BTU/hour)	378.74	368.51
Environment parameters	Long-term operating temperature	0-1800 m:-5°C to 45°C 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m.	0-1800 m: -5°C to 45°C 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m.
	Short-term operating temperature	-5°C ∼50°C	-5°C ∼50°C
	Storage temperature	-40°C to +70°C	-40°C to +70°C
	Relative humidity	5%–95% (non-condensing)	5%–95% (non-condensing)

Item		CloudEngine S5736-S48S4X-A	CloudEngine S5736-S48S4X-D
	Operating altitude	5000 m	5000 m
	Noise under normal temperature (sound power)	56.8 dB (A)	56.8 dB (A)
	Noise under high temperature (sound power)	73.9 dB (A)	73.9 dB (A)
	Noise under normal temperature (sound pressure)	44.8 dB (A)	44.8 dB (A)
	Surge protection specification (power port)	 ±6 kV in differential mode ±6 kV in common mode 	 ±2 kV in differential mode ±4 kV in common mode
Reliability	MTBF (year) ²	41.97	41.97
	MTTR (hour)	2	2
	Availability	> 0.99999	> 0.99999
Certification		 EMC certification Safety certification Manufacturing certification For details about certifications, see the section Safety and Regulatory Compliance. 	 EMC certification Safety certification Manufacturing certification For details about certifications, see the section Safety and Regulatory Compliance.

□ NOTE

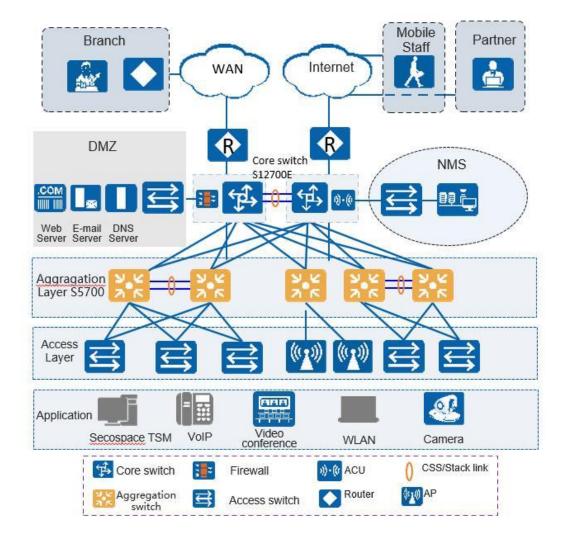
Networking and Applications

Large-Scale Enterprise Campus Network

CloudEngine S5736-S series switches can be deployed at the access layer of a campus network to build a high-performance and highly reliable enterprise network.

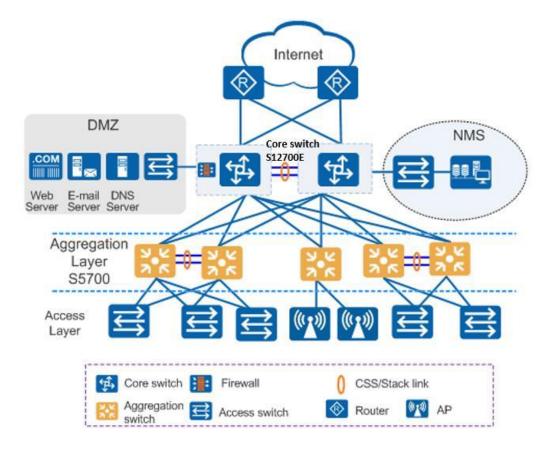
^{1:} The power consumption under different load conditions is calculated according to the ATIS standard. Additionally, the EEE function is enabled and there is no PoE power output.

^{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.



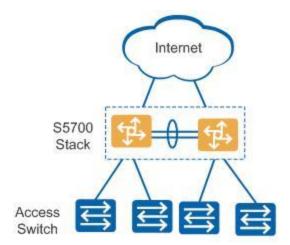
Small- or Medium-scale Enterprise Campus Network

CloudEngine S5736-S 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.



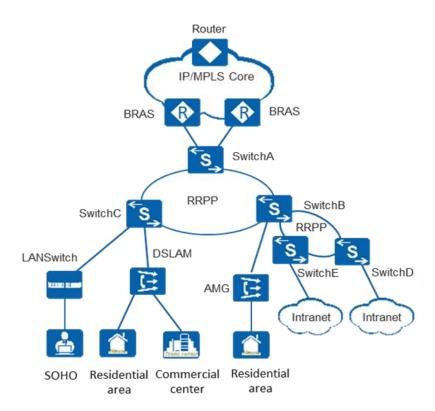
Small-scale Enterprise Campus Network

With powerful aggregation and routing capabilities of CloudEngine S5736-S series switches make them suitable for use as core switches in a small-scale enterprise network. Two or more S5736-S 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

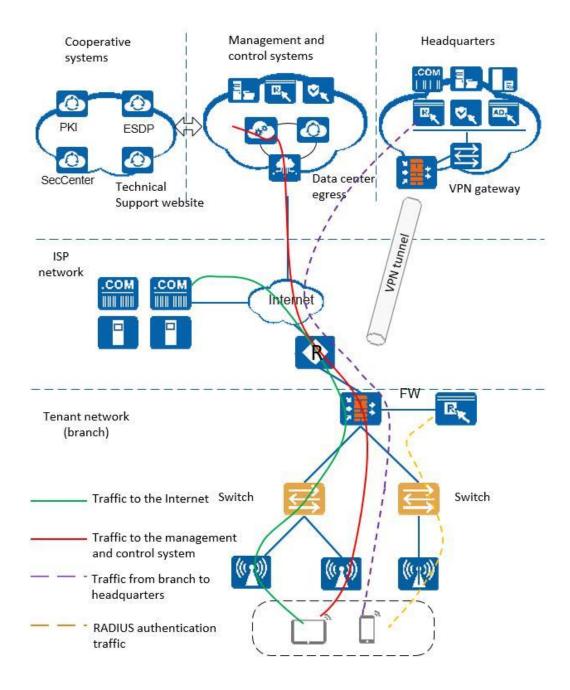
CloudEngine S5736-S series switches can be deployed at the access layer of a MAN (Metropolitan Area Network) to build a high-performance, multi-service, and highly reliable ISP MAN network.



Application in Public Cloud

CloudCampus Solution is a network solution suite based on Huawei public cloud. CloudEngine S5736-S 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 (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

The following table lists the safety and regulatory compliance of the CloudEngine S5736-S.

Safety and regulatory compliance of the CloudEngine S5736-S series

Certification Category	Description
Safety	 IEC 60950-1 EN 60950-1/A11/A12
	• UL 60950-1
	CSA C22.2 No 60950-1AS/NZS 60950.1
	• CNS 14336-1
	IEC60825-1IEC60825-2

Certification Category	Description
	• EN60825-1
	• EN60825-2
Electromagnetic Compatibility (EMC)	CISPR22 Class A
	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
	• 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

The following table lists the MIBs supported by the CloudEngine S5736-S.

MIBs supported by the Cloud Engine S5736-Sseries

Category	MIB
Public MIB	BRIDGE-MIB

	MIB
	DISMAN-NSLOOKUP-MIB
	DISMAN-PING-MIB
	DISMAN-TRACEROUTE-MIB
	ENTITY-MIB
	EtherLike-MIB
	• IF-MIB
	IP-FORWARD-MIB
	IPv6-MIB
	• LAG-MIB
	LLDP-EXT-DOT1-MIB
	LLDP-EXT-DOT3-MIB
	• LLDP-MIB
	MPLS-FTN-STD-MIB
	MPLS-L3VPN-STD-MIB
	MPLS-LDP-GENERIC-STD-MIB
	MPLS-LDP-STD-MIB
	MPLS-LSR-STD-MIB
	MPLS-TE-STD-MIB
	NOTIFICATION-LOG-MIB
	NQA-MIB
	OSPF-TRAP-MIB
	P-BRIDGE-MIB
	Q-BRIDGE-MIB
	• RFC1213-MIB
	• RIPv2-MIB
	RMON2-MIB
	RMON-MIB
	SAVI-MIB
	SNMP-FRAMEWORK-MIB
	SNMP-MPD-MIB
	SNMP-NOTIFICATION-MIB
	SNMP-TARGET-MIB
	SNMP-USER-BASED-SM-MIB
	● SNMPv2-MIB
	TCP-MIB
	UDP-MIB
Huawei-proprietary MIB	HUAWEI-AAA-MIB
	HUAWEI-ACL-MIB
	HUAWEI-ALARM-MIB
	HUAWEI-ALARM-RELIABILITY-MIB
	HUAWEI-BASE-TRAP-MIB
	HUAWEI-BRAS-RADIUS-MIB
	HUAWEI-BRAS-SRVCFG-EAP-MIB
	HUAWEI-BRAS-SRVCFG-STATICUSER-MIB

Category	MIB
	HUAWEI-CBQOS-MIB
	HUAWEI-CDP-COMPLIANCE-MIB
	HUAWEI-CONFIG-MAN-MIB
	HUAWEI-CPU-MIB
	HUAWEI-DAD-TRAP-MIB
	HUAWEI-DC-MIB
	HUAWEI-DATASYNC-MIB
	HUAWEI-DEVICE-MIB
	HUAWEI-DHCPR-MIB
	HUAWEI-DHCPS-MIB
	HUAWEI-DHCP-SNOOPING-MIB
	HUAWEI-DIE-MIB
	HUAWEI-DNS-MIB
	HUAWEI-DLDP-MIB
	HUAWEI-ELMI-MIB HUAWEI-EDBO MID
	HUAWEI-ERPS-MIB
	HUAWEI-ERRORDOWN-MIB HUAWEI-ENER OXA MOT AND
	HUAWEI-ENERGYMNGT-MIB HUAWEI-ENERGYMNGT-MIB
	HUAWEI-EASY-OPERATION-MIB HUAWEI-ENTENT AND
	HUAWEI-ENTITY-EXTENT-MIB HUAWEI-ENTITY-TRAP MIR
	HUAWEI-ENTITY-TRAP-MIB HUAWEI-ETHARP-MIB
	HUAWEI-ETHOAM-MIB
	HUAWEI-FLASH-MAN-MIB
	HUAWEI-FLASH-IVIAN-IVIIB HUAWEI-FWD-RES-TRAP-MIB
	HUAWEI-GARP-APP-MIB
	HUAWEI-GTSM-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-BGP-VPN-MIB

Category	мів
	HUAWEI-CCC-MIB
	HUAWEI-MULTICAST-MIB
	HUAWEI-NAP-MIB
	HUAWEI-NTPV3-MIB
	HUAWEI-PERFORMANCE-MIB
	HUAWEI-PORT-MIB
	HUAWEI-PORTAL-MIB
	HUAWEI-QINQ-MIB
	HUAWEI-RIPv2-EXT-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-XQOS-MIB

Standard Compliance

The following table lists the standards that the CloudEngine S5736-S complies with.

Standard compliance list of the CloudEngine S5736-S series

Standard Organization	Standard or Protocol
IETF	RFC 768 User Datagram Protocol (UDP)
	RFC 792 Internet Control Message Protocol (ICMP)
	RFC 793 Transmission Control Protocol (TCP)
	RFC 826 Ethernet Address Resolution Protocol (ARP)
	RFC 854 Telnet Protocol Specification
	RFC 951 Bootstrap Protocol (BOOTP)
	RFC 959 File Transfer Protocol (FTP)
	RFC 1058 Routing Information Protocol (RIP)
	RFC 1112 Host extensions for IP multicasting
	RFC 1157 A Simple Network Management Protocol (SNMP)
	RFC 1256 ICMP Router Discovery
	RFC 1305 Network Time Protocol Version 3 (NTP)
	RFC 1349 Internet Protocol (IP)
	RFC 1493 Definitions of Managed Objects for Bridges
	RFC 1542 Clarifications and Extensions for the Bootstrap Protocol

Standard Organization	Standard or Protocol
	RFC 1643 Ethernet Interface MIB
	RFC 1757 Remote Network Monitoring (RMON)
	RFC 1901 Introduction to Community-based SNMPv2
	• RFC 1902-1907 SNMP v2
	RFC 1981 Path MTU Discovery for IP version 6
	RFC 2131 Dynamic Host Configuration Protocol (DHCP)
	RFC 2328 OSPF Version 2
	RFC 2453 RIP Version 2
	RFC 2460 Internet Protocol, Version 6 Specification (IPv6)
	RFC 2461 Neighbor Discoveryfor IP Version 6 (IPv6)
	RFC 2462 IPv6 Stateless Address Auto configuration
	RFC 2463 Internet Control Message Protocol for IPv6 (ICMPv6)
	RFC 2474 Differentiated Services Field (DS Field)
	RFC 2740 OSPF for IPv6 (OSPFv3)
	RFC 2863 The Interfaces Group MIB
	RFC 2597 Assured Forwarding PHB Group
	RFC 2598 An Expedited Forwarding PHB
	RFC 2571 SNMP Management Frameworks
	RFC 2865 Remote Authentication Dial In User Service (RADIUS)
	RFC 3046 DHCP Option82
	RFC 3376 Internet Group Management Protocol, Version 3 (IGMPv3)
	RFC 3513 IP Version 6 Addressing Architecture
	RFC 3579 RADIUS Support For EAP
	RFC 4271 A Border Gateway Protocol 4 (BGP-4)
	RFC 4760 Multiprotocol Extensions for BGP-4
	draft-grant-tacacs-02 TACACS+
	RFC 6241 Network Configuration Protocol (NETCONF)
	 RFC 6020 YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF)
IEEE	IEEE 802.1D Media Access Control (MAC) Bridges
	IEEE 802.1p Traffic Class Expediting and Dynamic Multicast Filtering
	IEEE 802.1Q Virtual Bridged Local Area Networks
	IEEE 802.1ad Provider Bridges
	IEEE 802.2 Logical Link Control
	IEEE Std 802.3 CSMA/CD
	IEEE Std 802.3ab 1000BASE-T specification
	IEEE Std 802.3ad Aggregation of Multiple Link Segments
	IEEE Std 802.3ae 10GE WEN/LAN Standard
	IEEE Std 802.3x Full Duplex and flow control
	IEEE Std 802.3z Gigabit Ethernet Standard
	IEEE802.1ax/IEEE802.3ad Link Aggregation
	IEEE 802.3ah Ethernet in the First Mile.
	IEEE 802.1ag Connectivity Fault Management
	IEEE 802.1ab Link Layer Discovery Protocol

Standard Organization	Standard or Protocol
	IEEE 802.1D Spanning Tree Protocol
	IEEE 802.1w Rapid Spanning Tree Protocol
	IEEE 802.1s Multiple Spanning Tree Protocol
	IEEE 802.1x Port based network access control protocol
ITU	ITU SG13 Y.17ethoam
	ITU SG13 QoS control Ethernet-Based IP Access
	ITU-T Y.1731 ETH OAM performance monitor
ISO	ISO 10589 IS-IS Routing Protocol
MEF	MEF 2 Requirements and Framework for Ethernet Service Protection
	MEF 9 Abstract Test Suite for Ethernet Services at the UNI
	MEF 10.2 Ethernet Services Attributes Phase 2
	MEF 11 UNI Requirements and Framework
	MEF 13 UNI Type 1 Implementation Agreement
	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 XMODEMYMODEM Protocol Reference

Ordering Information

The following table lists ordering information of the CloudEngine S5736-S series switches.

Model	Product Description
CloudEngine S5736-S24S4XC	CloudEngine S5736-S24S4XC (24 x GE SFP ports, 4 x 10 GE SFP+ ports, 1*expansion slot, without power module)
CloudEngine S5736-S48S4XC	CloudEngine S5736-S48S4XC (48 x GE SFP ports, 4 x 10 GE SFP+ port, 1*expansion slot, without power module)
CloudEngine S5736-S48S4X-A	CloudEngine S5736-S48S4X-Abase (48*GE SFP ports, optional RTU upgrade to 10G, 4*10GE SFP+ ports, AC power supply, front access)
CloudEngine S5736-S48S4X-D	CloudEngine S5736-S48S4X-D base (48*GE SFP ports, optional RTU upgrade to 10G, 4*10GE SFP+ ports, DC power supply, front access)
PAC150S12-R	150 W AC power module
PDC180S12-CR	180 W DC power module
PAC600S12-CB	600 W AC power module
PAC600S12-DB	600 W AC power module
PAC600S12-EB	600 W AC power module
PDC1000S12-DB	1000 W DC power module
S7X08000	8-port 10GE SFP+ interface card
S7Q02001	2-port 40GE QSFP+ interface card
ES5D21Q02Q00	2-port 40GE QSFP+ interface card

Model	Product Description
ES5D21Q04Q01	4-port 40GE QSFP+ interface card
L-P1GUPG10G- S57S	S57-S Series, SFP 1G to 10G Electronic RTU License, Per Device
N1-S57S-M-Lic	S57XX-S Series Basic SW,Per Device
N1-S57S-M-SnS1Y	S57XX-S Series Basic SW,SnS,Per Device,1Year
N1-S57S-F-Lic	N1-CloudCampus,Foundation,S57XX-S Series,Per Device
N1-S57S-F-SnS	N1-CloudCampus,Foundation,S57XX-S Series,SnS,Per Device,1Year
N1-S57S-A-Lite-Lic	N1-CloudCampus,Advanced,S57XX-S Series,Per Device
N1-S57S-A-Lite- SnS	N1-CloudCampus,Advanced,S57XX-S Series,SnS,Per Device,1Year
N1-S57S-FToA- Lite-Lic	N1-Upgrade-Foundation to Advanced, S57XX-S, Per Device
N1-S57S-FToA- Lite-SnS	N1-Upgrade-Foundation to Advanced, S57XX-S, SnS, Per Device, 1Year

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

Copyright © Huawei Technologies Co., Ltd. 2022. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

Trademarks and Permissions

₩ HUAWEI and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between Huawei and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Huawei Technologies Co., Ltd.

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

Website:e.huawei.com