Huawei CloudEngine S5735-L-Q-V2 Series Switches Datasheet

Huawei CloudEngine S5735-L-Q-V2 series are simplified gigabit Ethernet switches that provide 8/14/16/24 x GE downlink ports, 4 x GE or 10GE uplink ports.

Introduction

CloudEngine S5735-L-Q-V2 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 software platform, CloudEngine S5735-L-Q-V2 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. Huawei S5735-L-Q-V2 series switches provide high-speed forwarding at line-rate on all ports.

Product Overview

Models and Appearances

The following models are available in the CloudEngine S5735-L-Q-V2 series.

Models and appearances of the CloudEngine S5735-L-Q-V2 series

Models and Appearances	Description
 CloudEngine S5735-L8T4X-QA-V2	• 8 x 10/100/1000Base-T ports, 4 x 10GE SFP+ ports • Built-in AC power supply • Forwarding performance: 72 Mpps • Switching capacity: 96 Gbps/520Gbps*
 CloudEngine S5735-L8P4X-QA-V2	• 8 x 10/100/1000Base-T ports, 4 x 10GE SFP+ ports • Built-in AC power supply • PoE+ • Forwarding performance: 72 Mpps • Switching capacity: 96 Gbps/520 Gbps*
 CloudEngine S5735-L14P2S-QA-V2	• 14 x 10/100/1000Base-T ports(PoE+), 2 x GE SFP ports • Built-in AC power supply • Forwarding performance: 24 Mpps • Switching capacity: 32 Gbps/520 Gbps*
	• 14 x 10/100/1000Base-T ports(PoE+), 2 x GE SFP ports • Built-in AC power supply

Models and Appearances	Description
CloudEngine S5735-L14P2S-TQA-V2**	• Forwarding performance: 24 Mpps • Switching capacity: 32 Gbps/520 Gbps*
 CloudEngine S5735-L16T4X-QA-V2	• 16 x 10/100/1000Base-T ports, 4 x 10GE SFP+ ports • Built-in AC power supply • Forwarding performance: 84 Mpps • Switching capacity: 112 Gbps/520 Gbps*
 CloudEngine S5735-L16LP2X-QA-V2	• 16 x 10/100/1000Base-T ports(PoE+), 2 x 10GE SFP+ ports • Built-in AC power supply • Forwarding performance: 54 Mpps • Switching capacity: 72 Gbps/520 Gbps*
 CloudEngine S5735-L16P2UM2X-QA-V2	• 16 x 10/100/1000Base-T ports(PoE+), 2 x 100M/1/2.5/5/10GE Base-T ports(PoE++), 2 x 10GE SFP+ ports • Built-in AC power supply • Forwarding performance: 84 Mpps • Switching capacity: 112 Gbps/520 Gbps*
 CloudEngine S5735-L16LP2UM2X-QA-V2	• 16 x 10/100/1000Base-T ports(PoE+), 2 x 100M/1/2.5/5/10G Base-T ports(PoE++), 2 x 10GE SFP+ ports • Built-in AC power supply • Forwarding performance: 84 Mpps • Switching capacity: 112 Gbps/520 Gbps*
 CloudEngine S5735-L24T4X-QA-V2	• 24 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports • Built-in AC power supply • Forwarding performance: 96 Mpps • Switching capacity: 128 Gbps/520 Gbps*
 CloudEngine S5735-L24LU8S4XE-QA-V2	• 8 x 10/100/1000Base-T ports(PoE++), 16 x 10/100/1000Base-T ports(PoE+), 8 x GE SFP ports, 4 x 10 GE SFP+ ports, 2 x 12GE stack ports • Built-in AC power supply • Forwarding performance: 144 Mpps • Switching capacity: 192 Gbps/520 Gbps*

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

**Note：‘-T ’means Hardware Trust Module(HTM), support hardware root of trust and measurement startup.

Product Features and Highlights

Flexible Ethernet Networking

- In addition to traditional Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), and Multiple Spanning Tree Protocol (MSTP), the CloudEngineS5735-L-V2 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.

- CloudEngine S5735-L-Q-V2 supports Smart Link, which implements backup of uplinks. One CloudEngine S5735-L-Q-V2 switch can connect to multiple aggregation switches through multiple links, significantly improving reliability of access devices.

Diversified Security Control

- Huawei switches support post-quantum cryptography (PQC) algorithms and encryption capabilities within transport security protocols, effectively defending against decryption threats posed by quantum computing to deliver future-proof quantum-resistant security for network infrastructure.
- CloudEngine S5735-L-Q-V2 supports Portal authentication, 802.1X authentication, MAC address authentication, and hybrid authentication on a per port basis, and implements dynamic policy delivery (VLAN, QoS, and ACL) to users.
- CloudEngine S5735-L-Q-V2 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-Q-V2 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-Q-V2 supports strict ARP learning. This feature prevents ARP spoofing attackers from exhausting ARP entries so that users can connect to the Internet normally.
- The CloudEngine S5735-L-Q-V2 supports Media Access Control Security (MACsec) with part ports. It provides identity authentication, data encryption, integrity check, and replay protection to protect Ethernet frames and prevent attack packets.

Note: Only part ports of S5735-L14P2S-QA-V2/S5735-L16LP2X-QA-V2/S5735-L16LP2UM2X-QA-V2/S5735-L16P2UM2X-QA-V2 support MACsec.

Easy Operation and Maintenance

- CloudEngine S5735-L-Q-V2 supports SDN-based automatic deployment of policies for wired and wireless users on the entire network and refined management and control, implementing free mobility.
- CloudEngine S5735-L-Q-V2 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-Q-V2 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-Q-V2 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-Q-V2 also supports VLAN-Based Spanning Tree (VBST) protocol.

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

iStack

- CloudEngine S5735-L-Q-V2 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-Q-V2 support stacking through electrical ports.
- Some CloudEngine S5735-L-Q-V2 supports two 12GE dedicated stack ports, which release uplink ports and do not need to be configured.

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.

Network Slicing Functions

- CloudEngine S5735-L-Q-V2 provides a range of VLAN slicing functions to meet diversified SLA requirements of different services and customers. Service isolation and bandwidth guarantee are implemented based on QoS. Slices can be completely isolated from each other without affecting each other. Traffic is isolated at the physical layer, and network slicing is performed for services on the same physical network. The Network Slicing technology can be used at the access, aggregation, and core layers to meet differentiated SLA requirements of new services on campus networks.

Intelligent O&M

- CloudEngine S5735-L-Q-V2 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.

Intelligent Upgrade

- CloudEngine S5735-L-Q-V2 supports the intelligent upgrade feature. Specifically, CloudEngine S5735-L-Q-V2 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-Q-V2 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-Q-V2 switch through Python scripts to quickly innovate functions and implement intelligent O&M.

Licensing

CloudEngine S5735-L-Q-V2 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: Layer 2 functions, IPv4, IPv6 and others	√	√	√

Switch Functions	N1 Basic Software	N1 Foundation Software Package	N1 Advanced Software Package
Note: For details, see the Service Features			
Basic network automation based on the iMaster NCE-Campus: • NE management: Device management, topology management and discovery • User access authentication	×	√	√
Automation and intelligent O&M: Basic functions for intelligent network analysis of CampusInsight.	×	√	√
Advanced network automation and intelligent O&M: Endpoint plug&play of iMaster NCE-Campus and Application analysis function of CampusInsight.	×	×	√

Product Specifications

Functions and Features

Item	Service Feature
MAC address table	Automatic MAC address learning, synchronization, and aging
	Up to 32K MAC address entries
	Static MAC address and dynamic MAC address management
	Static, dynamic, and blackhole MAC address entries
	Packet filtering based on source MAC addresses
	MAC address learning limiting based on ports
VLAN	Support for 4K VLANs simultaneously
	Voice VLAN
	MUX VLAN
	VLAN stacking and VLAN mapping
	LNP, VCMP, and GVRP
	Basic QinQ and selective QinQ
Layer 2 ring network protocol	Smart Link tree topology and Smart Link multi-instance, providing millisecond-level protective switchover
	ERPS (G.8032) support, enabling less than 50 ms switchover upon a fault
	STP (IEEE 802.1d), RSTP (IEEE 802.1w), MSTP (IEEE 802.1s), and VBST
	BPDU protection, root protection, and loop protection
	BPDU tunnel
	SEP
Detection protocol	LBDT, L2PT, and DLDP

Item	Service Feature
	Smart Link and Monitor Link
	802.1ag, 802.3ah, and Y.1731
Multicast	PIM DM, PIM SM, and PIM SSM
	IGMP v1/v2/v3, IGMP v1/v2/v3 snooping, and MLD snooping
	IPv4/IPv6 multicast routing and multicast load balancing
	Multicast traffic statistics on a per-port basis
	Multicast VLAN and static multicast MAC
IP services	Dual-stack IPv4 and IPv6
	ARP
	Neighbor discovery (ND)
	DNS，mDNS
	DHCPv4 client, DHCPv4 relay, and DHCPv4 snooping
	DHCPv6 client, DHCPv6 relay, and DHCPv6 snooping
	IPv4/v6 ping, tracert, and telnet
IP routing	Static route, routing policy, and policy-based routing
	RIPv1/v2, RIPng, OSPFv2, OSPFv3
Reliability	LACP
	VRRP
	BFD
	LLDP
	Eth-Trunk, 128 Eth-Trunks, 8 Eth-Trunk members
User access and authentication	Multiple authentication methods, including AAA, RADIUS, and HWTACACS
	Policy association
	Endpoint identification and unauthorized access prevention
	Scanning-based identification, flow information identification, and fingerprint identification.
	802.1X, MAC address, and Portal authentication
QoS/ACL	Rate limiting on packets sent and received by a port
	Packet redirection
	Port-based traffic policing and two-rate three-color CAR
	Eight queues on each port
	SP, DRR, WDRR, SP+DRR, and SP+WDRR queue scheduling algorithms
	WRED
	Re-marking of the 802.1p priority and DSCP priority
	Packet filtering at Layer 2 to Layer 4, filtering out invalid frames based on the source MAC address, destination MAC address, source IP address, destination IP address, TCP/UDP

Item	Service Feature
	source port number/destination port number, protocol type, and VLAN ID
	Rate limiting in each queue and traffic shaping on ports
	Network Slicing（VLAN）
Security features	Hierarchical user management and password protection
	DoS attack defense, ARP attack defense, and ICMP attack defense
	Binding of the IP address, MAC address, port number, and VLAN ID
	Port isolation, port security, and sticky MAC
	ARP security features, including ARP snooping, ND snooping, ARP conflict detection, Dynamic ARP Inspection (DAI), and Egress ARP Inspection (EAI).
	Blackhole MAC addresses
	Unknown unicast, unknown multicast, and broadcast storm control on a per-port basis
	IEEE 802.1X authentication, with per-port maximum user limits
	IP Source Guard (IPSG)
	Public Key Infrastructure (PKI)
	SSH v2.0
	HTTPS
	CPU protection and attack defense
	Blacklist and whitelist mechanisms
	Host Intrusion Prevention System (HIPS) and Federal Information Processing Standard (FIPS)
	Source Address Validation Improvement (SAVI)
Network management and monitoring	iStack, stack bandwidth: 80Gbps
	Maximum number of stacked devices: 9(4 if the cloud management platform is used to manage and maintain the stack)
	SNMPv1/v2c/v3
	NETCONF/YANG-based cloud management
	Management via the eSight or web system
	Remote configuration and maintenance using Telnet
	RMON
	iPCA, sFlow, NQA and Telemetry
	Port mirroring, traffic mirroring, RSPAN, and ERSPAN
	USB-based deployment, deployment through the registration query center, and SZTP
	RESTCONF, gRPC, and EVA
Network maintenance	Telnet for remote configuration and maintenance
	Ping and traceroute
	Virtual Cable Test (VCT)

Item	Service Feature
	FTP, SFTP, and TFTP file management
	Time management
	CPU and memory resource monitoring
	System logs and hierarchical alarms
	Hot patching
	User operation logs
	IEEE 802.3az Energy-Efficient Ethernet (EEE)
	Configuration rollback
	Webmaster-based management
Interoperability	VBST (compatible with PVST/PVST+/RPVST)

Hardware Specifications

Hardware specifications of CloudEngine S5735-L8T4X-QA-V2/L8P4X-QA-V2/L16T4X-QA-V2/L24T4X-QA-V2 models

Item		CloudEngine S5735-L8T4X-QA-V2	CloudEngine S5735-L8P4X-QA-V2	CloudEngine S5735-L16T4X-QA-V2	CloudEngine S5735-L24T4X-QA-V2
Physical specifications	Dimensions (H x W x D)	43.6 mm x 250 mm x 180 mm	43.6 mm x 320 mm x 210 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)	2.21 kg	3.06 kg	3.46kg	3.48 kg
Fixed port	GE port	8	8(PoE+)	16	24
	GE SFP pot	4	4	4	4
	10GE SFP+ port	4	4	4	4
Management port	Console port (RJ45)	Supported	Supported	Supported	Supported
	USB Port	NA	NA	NA	NA
CPU	Frequency	1.1 GHz	1.1 GHz	1.1 GHz	1.1 GHz
	Core	2 cores	2 cores	2 cores	2 cores
Storage	Memory (DRAM)	2 GB	2 GB	2 GB	2 GB
Ingress protection level	Ingress protection level	IP20	IP20	IP20	IP20
Power supply system	Power supply type	Built-in AC power supply	Built-in AC power supply	Built-in AC power supply	Built-in AC power supply
	Rated voltage range	AC input: 100 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz	100 V AC to 240 V AC, 50/60 Hz
	Maximum voltage range	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz	AC input: 90 V AC to 300 V AC; 47 Hz to 63 Hz	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz

Item		CloudEngine S5735-L8T4X-QA-V2	CloudEngine S5735-L8P4X-QA-V2	CloudEngine S5735-L16T4X-QA-V2	CloudEngine S5735-L24T4X-QA-V2
	Maximum input current	0.8 A	3 A	0.8A	0.8A
	Power consumption in the case of 30% traffic load[1]	16.2 W	21.16 W	21.42 W	26.13 W
	Power consumption in the case of 100% traffic load[1]	16.97W	• Without PoE: 22.21 W • Full PoE load: 152.55 W (PoE: 125 W)	24.29 W	29.96 W
	Power consumption in the case of 0% traffic load[1]	10.05 W	15.24 W	13.33 W	14.94 W
Heat dissipation system	Heat dissipation mode	Natural heat dissipation	Natural heat dissipation	Natural heat dissipation	Natural heat dissipation
	Number of fan modules	0	0	0	0
	Airflow	NA	NA	NA	NA
	Maximum heat dissipation [BTU/hour]	57.9 BTU/hour	• Without PoE: 75.78 • Full PoE load: 520.52	82.88 BTU/hour	102.23 BTU/hour
Environment parameters	Long-term operating temperature	• –5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)	• –5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)	• –5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)	• –5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
	Short-term operating temperature	NA	NA	NA	NA
	Storage temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
	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)	fanless, noise-free, <30dB (A)	fanless, noise-free, <30dB (A)	fanless, noise-free, <30dB (A)	fanless, noise-free, <30dB (A)
	Noise under high temperature (sound power)	fanless, noise-free, <30dB (A)	fanless, noise-free, <30dB (A)	fanless, noise-free, <30dB (A)	fanless, noise-free, <30dB (A)
	Noise under normal temperature (sound pressure)	fanless, noise-free, <20dB (A)	fanless, noise-free, <20dB (A)	fanless, noise-free, <20dB (A)	fanless, noise-free, <20dB (A)

Item		CloudEngine S5735-L8T4X-QA-V2	CloudEngine S5735-L8P4X-QA-V2	CloudEngine S5735-L16T4X-QA-V2	CloudEngine S5735-L24T4X-QA-V2
	Service port surge protection [kV]	Common mode: ±7 kV	Common mode: ±7 kV	Common mode: ±7 kV	Common mode: ±7 kV
	Power supply surge protection [kV]	• Differential mode: ± 6 kV • Common mode: ± 6 kV	• Differential mode: ± 6 kV • Common mode: ± 6 kV	• Differential mode: ± 6 kV • Common mode: ± 6 kV	• Differential mode: ± 6 kV • Common mode: ± 6 kV
Reliability	MTBF (year)	76.15	70.41	73.24	71.51
	MTTR (hour)	2	2	2	2
	Availability	> 0.99999	> 0.99999	> 0.99999	> 0.99999
Dying gasp	Dying gasp	Supported	Supported	Supported	Supported
Certification		• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification

Hardware specifications of CloudEngine S5735-L14P2S-QA-V2/-L14P2S-TQA-V2/-L16LP2X-QA-V2/-L16P2UM2X-QA-V2/-L16LP2UM2X-QA-V2 models

Item		CloudEngine S5735-L14P2S-QA-V2 CloudEngine S5735-L14P2S-TQA-V2	CloudEngine S5735-L16LP2X-QA-V2	CloudEngine S5735-L16P2UM2X-QA-V2	CloudEngine S5735-L16LP2UM2X-QA-V2
Physical specifications	Dimensions (H x W x D)	43.6 mm x250 mm x 245 mm	54 mm x250 mm x 220 mm	43.6 mm x250 mm x 245 mm	54 mm x250 mm x 220 mm
	Chassis height	1 U	1.24 U	1U	1.24U
	Chassis weight (including packaging)	3.2 kg	3.35 kg	3.3 kg	3.4 kg
Fixed port	GE Base-T port	14	16	16	16
	10GE Base-T port	NA	NA	2	2
	GE SFP port	2	2	2	2
	10GE SFP+ port	NA	2	2	2
	Dedicated 12GE stack 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

Item		CloudEngine S5735-L14P2S-QA-V2 CloudEngine S5735-L14P2S-TQA-V2	CloudEngine S5735-L16LP2X-QA-V2	CloudEngine S5735-L16P2UM2X-QA-V2	CloudEngine S5735-L16LP2UM2X-QA-V2
CPU	Frequency	1.1 GHz	1.1 GHz	1.1 GHz	1.1 GHz
	Core	2	2	2	2
Storage	Memory (DRAM)	2 GB	2 GB	2 GB	2 GB
Ingress protection level	IP level	IP20	IP40	IP20	IP20
Power supply system	Power supply type	Built-in AC power supply	Built-in AC power supply	Built-in AC power supply	Built-in AC power supply
	Rated voltage range	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC	100 V AC to 240 V AC, 50/60 Hz	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC	AC input: 100–240 V AC; 50/60 Hz
	Maximum voltage range	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC	AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz	• 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	AC input: 90–290 V AC; 45–65 Hz
	Maximum input current	6 A	3 A	6 A	3 A
	Maximum power consumption of the device	• Without PoE: 26.02 W • Full PoE load: 292.10 W (PoE: 247 W)	• 25.41 W (without PD) • 162.82 W(with PD,PD Power consumption of :125 W）	• 29.8 W (without PD) • 296.12 W(with PD,PD Power consumption of :247W）	• 29.2W (without PD) • 166.4W(with PD,PD Power consumption of :125W）
	Power consumption in the case of 30% traffic load[1]	21.67 W	20.7 W	24.6 W	24.37 W
	Power consumption in the case of 100% traffic load[1]	• Without PoE: 26.02 W • Full PoE load: 292.10 W (PoE: 247 W)	• Without PoE: 25.41 W • Full PoE load: 162.82 W (PoE: 125 W)	• Without PoE: 29.80 W • Full PoE load: 296.12 W (PoE: 247 W)	• Without PoE: 29.20 W • Full PoE load: 166.40 W (PoE: 125 W)
	Power consumption in the case of 0% traffic load[1]	14.88 W	20.7 W	24.6 W	24.37 W
Heat dissipation system	Heat dissipation mode	Natural heat dissipation	Natural heat dissipation	Natural heat dissipation	Natural heat dissipation
	Number of fan	NA	NA	NA	NA

Item		CloudEngine S5735-L14P2S-QA-V2 CloudEngine S5735-L14P2S-TQA-V2	CloudEngine S5735-L16LP2X-QA-V2	CloudEngine S5735-L16P2UM2X-QA-V2	CloudEngine S5735-L16LP2UM2X-QA-V2
	modules				
	Airflow	NA	NA	NA	NA
	Maximum heat dissipation of the device (BTU/hour)	• Without PoE: 88.78 • Full PoE load: 996.57	without PD :86.7 with PD：555.56	without PD :101.68 with PD：1010.39	without PD :99.63 with PD：567.77
Environment parameters	Long-term operating temperature	• 0-1800 m altitude: -5°C to +45°C • 1800-5000 m altitude: The operating temperature reduces by 1ºC 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 1ºC 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 1ºC 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 1ºC every time the altitude increases by 220 m.
	Short-term operating temperature	NA	NA	NA	NA
	Storage temperature	-40°C to +70°Cs	-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)	fanless, noise-free, <30dB (A)	fanless, noise-free, <30dB (A)	fanless, noise-free, <30dB (A)	fanless, noise-free, <30dB (A)
	Noise under high temperature (sound power)	fanless, noise-free, <30dB (A)	fanless, noise-free, <30dB (A)	fanless, noise-free, <30dB (A)	fanless, noise-free, <30dB (A)
	Noise under normal temperature (sound pressure)	fanless, noise-free, <20dB (A)	fanless, noise-free, <20dB (A)	fanless, noise-free, <20dB (A)	fanless, noise-free, <20dB (A)
	Service port surge protection [kV]	Common mode: ±6 kV	Common mode: ±6 kV	Common mode: ±6 kV	Common mode: ±6 kV
	Surge protection specification (power port)	• Differential mode: ± 6 kV • Common mode: ±6 kV	• Differential mode: ± 6 kV • Common mode: ±6 kV	• Differential mode: ± 6 kV • Common mode: ±6 kV	• Differential mode: ± 6 kV • Common mode: ±6 kV
Reliability	MTBF (year)	59.25/60.66	59.41	55.2	55.16
	MTTR (hour)	2	2	2	2

Item		CloudEngine S5735-L14P2S-QA-V2 CloudEngine S5735-L14P2S-TQA-V2	CloudEngine S5735-L16LP2X-QA-V2	CloudEngine S5735-L16P2UM2X-QA-V2	CloudEngine S5735-L16LP2UM2X-QA-V2
	Availability	> 0.99999	> 0.99999	> 0.99999	> 0.99999
Dying gasp	Dying gasp	Supported	Supported	Supported	Supported
Certification		• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification

Hardware specifications of CloudEngine S5735-L24LU8S4XE-QA-V2 models

Item		CloudEngine S5735-L24LU8S4XE-QA-V2	
Physical specifications	Dimensions (H x W x D)	43.6 mm x 442 mm x 360 mm	
	Chassis height	1 U	
	Chassis weight (including packaging)	7.02 kg	
Fixed port	GE Base-T port	24	
	10GE Base-T port	NA	
	GE SFP port	8	
	10GE SFP+ port	4	
	Dedicated 12GE stack port	2	
Management port	Console port (RJ45)	Supported	
	USB port	USB 2.0	
CPU	Frequency	1.1 GHz	
	Core	2	
Storage	Memory (DRAM)	2 GB	
Ingress protection level	IP level	IP30	
Power supply system	Power supply type	Built-in AC power supply	
	Rated voltage range	• AC input: 100 V AC to 240 V AC, 50/60 Hz • HVDC input: 240 V DC	
	Maximum voltage range	• AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz • HVDC input: 190 V DC to 290 V DC	
	Maximum input current	6 A	

Item		CloudEngine S5735-L24LU8S4XE-QA-V2	
	Power consumption in the case of 30% traffic load[1]	37.9 W	
	Power consumption in the case of 100% traffic load[1]	• Without PoE: 46.20 W • Full PoE load: 311.01 W (PoE: 247 W)	
	Power consumption in the case of 0% traffic load[1]	24.5 W	
Heat dissipation system	Heat dissipation mode	Natural heat dissipation	
	Number of fan modules	NA	
	Airflow	NA	
	Maximum heat dissipation of the device (BTU/hour)	• Without PoE: 157.64 • Full PoE load: 1061.19	
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.	
	Short-term operating temperature	NA	
	Storage temperature	-40°C to +70°C	
	Relative humidity	5%-95%(non-condensing)	
	Operating altitude	5000 m	
	Noise under normal temperature (sound power)	fanless, noise-free, <30dB (A)	
	Noise under high temperature (sound power)	fanless, noise-free, <30dB (A)	
	Noise under normal temperature (sound pressure)	fanless, noise-free, <20dB (A)	
	Surge protection specification (power port)	• Differential mode: ± 6 kV • Common mode: ±6 kV	
Reliability	MTBF (year)	34.58	
	MTTR (hour)	2	
	Availability	> 0.99999	
Dying gasp	Dying gasp	Supported	
Certification		• EMC certification • Safety certification • Manufacturing certification	

NOTE

1: The Typical power consumption is calculated under 30% service traffic load conditions according to the ATIS standard. Additionally, the EEE function is enabled and there is no PoE power output.

The Static power consumption is calculated under 0% service traffic load conditions according to the ATIS standard. Additionally, the EEE function is enabled and there is no PoE power output.

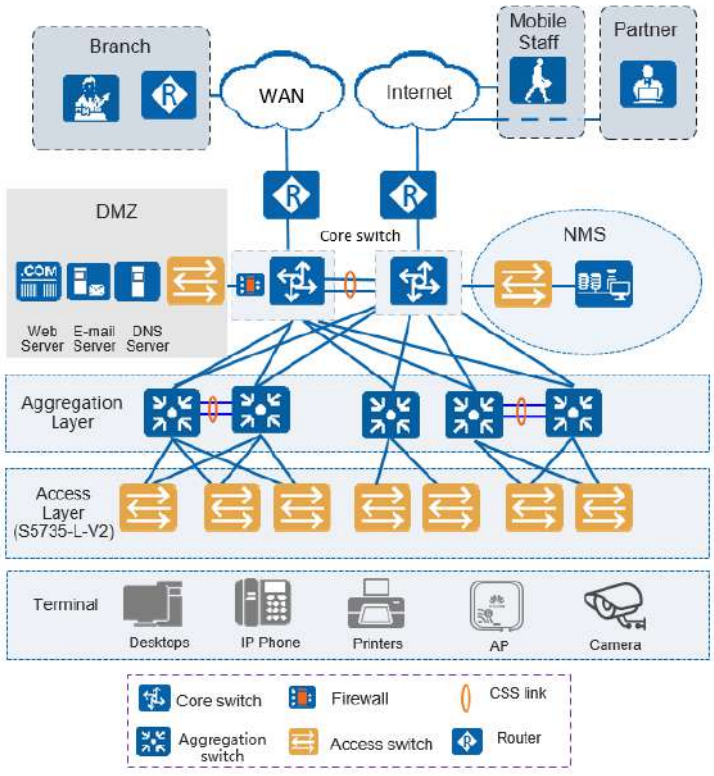
Performance Specification

Entries	S5735-L-V2 series switches
Number of dynamic MAC address entries	Up to 32K
Number of static MAC address entries	1024
Maximum number of VLANs	4094
Number of VLANIF interfaces	1024
IPv4 routing entries	Up to 4096
IPv6 routing entries	Up to 2048
Number of ARP entries	Up to 4000
Number of ND entries	Up to 1024
ACL scale entries	IPv4: 2432 @ 320 bits; IPv6: 1536 @ 480 bits
IPv4/IPv6 multicast L2 entries	1024
IPv4/IPv6 multicast L3 entries	1024
Jumbo frames	10240

Networking and Applications

Medium or Large-Scale Enterprise Campus Network

CloudEngine S5735-L-Q-V2 series switches can be deployed at the access layer of a campus network to build a high-performance and highly reliable enterprise network.



Safety and Regulatory Compliance

Safety and regulatory compliance of the CloudEngine S5735-L-V2 series

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

NOTE

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

- WEEE: Waste Electrical and Electronic Equipment

MIB and Standards Compliance

Supported MIBs

Supported MIBs by the CloudEngine S5735-L-Q-V2 series

Category	MIB
Public MIB	• BRIDGE-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 • NOTIFICATION-LOG-MIB • NQA-MIB • P-BRIDGE-MIB • Q-BRIDGE-MIB • RFC1213-MIB • RMON-MIB • SAVI-MIB • SNMP-FRAMEWORK-MIB • SNMP-MPD-MIB • SNMP-NOTIFICATION-MIB • SNMP-TARGET-MIB • SNMP-USER-BASED-SM-MIB • SNMPv2-MIB • SNMP-VIEW-BASED-ACM-MIB • TCP-MIB • UDP-MIB
Huawei-proprietary MIB	• HUAWEI-AAA-MIB • HUAWEI-ACL-MIB • HUAWEI-ALARM-MIB • HUAWEI-ALARM-RELIABILITY-MIB • HUAWEI-BASE-TRAP-MIB • HUAWEI-BRAS-RADIUS-MIB • HUAWEI-BRAS-SRVCFG-EAP-MIB • HUAWEI-BRAS-SRVCFG-STATICUSER-MIB

Category	MIB
	• HUAWEI-CBQOS-MIB • HUAWEI-CDP-COMPLIANCE-MIB • HUAWEI-CONFIG-MAN-MIB • HUAWEI-CPU-MIB • HUAWEI-DAD-TRAP-MIB • HUAWEI-DATASYNC-MIB • HUAWEI-DEVICE-MIB • HUAWEI-DHCPR-MIB • HUAWEI-DHCPS-MIB • HUAWEI-DHCP-SNOOPING-MIB • HUAWEI-DIE-MIB • HUAWEI-DNS-MIB • HUAWEI-DLDP-MIB • HUAWEI-ERPS-MIB • HUAWEI-ERRORDOWN-MIB • HUAWEI-ENERGYMNGT-MIB • HUAWEI-EASY-OPERATION-MIB • HUAWEI-ENTITY-EXTENT-MIB • HUAWEI-ENTITY-TRAP-MIB • HUAWEI-ETHARP-MIB • HUAWEI-ETHOAM-MIB • HUAWEI-FLASH-MAN-MIB • HUAWEI-FWD-RES-TRAP-MIB • HUAWEI-GARP-APP-MIB • HUAWEI-GTL-MIB • HUAWEI-HGMP-MIB • HUAWEI-HWTACACS-MIB • HUAWEI-IF-EXT-MIB • HUAWEI-INFOCENTER-MIB • HUAWEI-IPPOOL-MIB • HUAWEI-IPV6-MIB • HUAWEI-ISOLATE-MIB • HUAWEI-L2IF-MIB • HUAWEI-L2MAM-MIB • HUAWEI-L2VLAN-MIB • HUAWEI_LDT-MIB • HUAWEI-LLDP-MIB • HUAWEI-MAC-AUTHEN-MIB • HUAWEI-MEMORY-MIB • HUAWEI-MFF-MIB • HUAWEI-MFLP-MIB • HUAWEI-MSTP-MIB • HUAWEI-MULTICAST-MIB • HUAWEI-NTPV3-MIB • HUAWEI-PERFORMANCE-MIB

Category	MIB
	• HUAWEI-PERFMGMT-MIB • HUAWEI-PORT-MIB • HUAWEI-PORTAL-MIB • HUAWEI-QINQ-MIB • HUAWEI-RM-EXT-MIB • HUAWEI-RRPP-MIB • HUAWEI-SECURITY-MIB • HUAWEI-SEP-MIB • HUAWEI-SNMP-EXT-MIB • HUAWEI-SSH-MIB • HUAWEI-STACK-MIB • HUAWEI-SWITCH-L2MAM-EXT-MIB • HUAWEI-SWITCH-SRV-TRAP-MIB • HUAWEI-SYS-MAN-MIB • HUAWEI-TCP-MIB • HUAWEI-TFTPC-MIB • HUAWEI-TRNG-MIB • HUAWEI-UNIMNG-MIB • HUAWEI-USA-MIB • HUAWEI-XQOS-MIB

NOTE

For more detailed information of MIBs supported by the CloudEngine S5735-L-Q-V2 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-Q-V2 series

Standard Organization	Standard or Protocol
IETF	• RFC 768 User Datagram Protocol (UDP) • RFC 792 Internet Control Message Protocol (ICMP) • RFC 793 Transmission Control Protocol (TCP) • RFC 826 Ethernet Address Resolution Protocol (ARP) • RFC 854 Telnet Protocol Specification • RFC 951 Bootstrap Protocol (BOOTP) • RFC 959 File Transfer Protocol (FTP) • RFC 1058 Routing Information Protocol (RIP) • RFC 1112 Host extensions for IP multicasting • RFC 1157 A Simple Network Management Protocol (SNMP) • RFC 1256 ICMP Router Discovery • RFC 1305 Network Time Protocol Version 3 (NTP) • RFC 1349 Internet Protocol (IP) • RFC 1493 Definitions of Managed Objects for Bridges • RFC 1542 Clarifications and Extensions for the Bootstrap Protocol • RFC 1643 Ethernet Interface MIB

Standard Organization	Standard or Protocol
	• RFC 1757 Remote Network Monitoring (RMON) • RFC 1901 Introduction to Community-based SNMPv2 • RFC 1902-1907 SNMP v2 • RFC 1981 Path MTU Discovery for IP version 6 • RFC 2131 Dynamic Host Configuration Protocol (DHCP) • RFC 2460 Internet Protocol, Version 6 Specification (IPv6) • RFC 2461 Neighbor Discovery for IP Version 6 (IPv6) • RFC 2462 IPv6 Stateless Address Auto configuration • RFC 2463 Internet Control Message Protocol for IPv6 (ICMPv6) • RFC 2474 Differentiated Services Field (DS Field) • RFC 2863 The Interfaces Group MIB • RFC 2597 Assured Forwarding PHB Group • RFC 2598 An Expedited Forwarding PHB • RFC 2571 SNMP Management Frameworks • RFC 2865 Remote Authentication Dial In User Service (RADIUS) • RFC 3046 DHCP Option82 • RFC 3513 IP Version 6 Addressing Architecture • RFC 3579 RADIUS Support For EAP • draft-grant-tacacs-02 TACACS+ • RFC 6241 Network Configuration Protocol (NETCONF) • RFC 6020 YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF) • RFC 5905 Network Time Protocol Version 4: Protocol and Algorithms Specification
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 802.3i 10BASE-T specification • IEEE Std 802.3u 100BASE-T specification • IEEE Std 802.3ab 1000BASE-T specification • IEEE Std 802.3ab RJ45 con Auto-MDIX • 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 802.1ab Link Layer Discovery 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 • IEEE 802.3af DTE Power via MIDI

Standard Organization	Standard or Protocol
	• IEEE 802.3at DTE Power via the MDI Enhancements • IEEE 802.3az Energy Efficient Ethernet
ITU	• ITU SG13 Y.17ethoam • ITU SG13 QoS control Ethernet-Based IP Access • ITU-T Y.1731 ETH OAM performance monitor
MEF	• MEF 2 Requirements and Framework for Ethernet Service Protection • MEF 9 Abstract Test Suite for Ethernet Services at the UNI • MEF 11 UNI Requirements and Framework • MEF 15 Requirements for Management of Metro Ethernet Phase 1 Network Elements • MEF 17 Service OAM Framework and Requirements • MEF 20 UNI Type 2 Implementation Agreement • MEF 23 Class of Service Phase 1 Implementation Agreement • XMODEM/YMODEM Protocol Reference

NOTE

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

Ordering Information

Model	Product Description
CloudEngine S5735-L8T4X-QA-V2	CloudEngine S5735-L8T4X-QA-V2(8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power, Fanless)
CloudEngine S5735-L8P4X-QA-V2	CloudEngine S5735-L8P4X-QA-V2(8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, PoE+, AC power, Fanless)
CloudEngine S5735-L16T4X-QA-V2	CloudEngine S5735-L16T4X-QA-V2 (16*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power, Fanless)
CloudEngine S5735-L24T4X-QA-V2	CloudEngine S5735-L24T4X-QA-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power, Fanless)
CloudEngine S5735-L14P2S-QA-V2	CloudEngine S5735-L14P2S-QA-V2（14*10/100/1000BASE-T ports(POE+), 2*GE SFP ports, AC power）
CloudEngine S5735-L14P2S-TQA-V2	CloudEngine S5735-L14P2S-TQA-V2（14*10/100/1000BASE-T ports(POE+), 2*GE SFP ports, HTM, AC power）
CloudEngine S5735-L16LP2X-QA-V2	CloudEngine S5735-L16LP2X-QA-V2（16*10/100/1000BASE-T ports(POE+), 2*10GE SFP+ ports, AC power）
CloudEngine S5735-L16P2UM2X-QA-V2	CloudEngine S5735-L16P2UM2X-QA-V2(16*10/100/1000BASE-T ports(POE+), 2*100M/1G/2.5G/5G/10G Ethernet ports(POE++), 2*10GE SFP+ ports, AC power)
CloudEngine S5735-L16LP2UM2X-QA-V2	CloudEngine S5735-L16LP2UM2X-QA-V2(16*10/100/1000BASE-T ports(POE+), 2*100M/1G/2.5G/5G/10G Ethernet ports(POE++), 2*10GE SFP+ ports, AC power)
CloudEngine S5735-L24LU8S4XE-QA-V2	CloudEngine S5735-L24LU8S4XE-QA-V2(8*10/100/1000BASE-T ports(PoE++), 16*10/100/1000BASE-T ports(PoE+), 8*GE SFP ports, 4*10GE SFP+ ports, 2*12GE stack ports, 247W PoE, built-in AC power, Fanless)

Model	Product Description
N1-S57L-M-Lic	S57XX-L Series Basic SW, Per Device
N1-S57L-M-SnS1Y	S57XX-L Series Basic SW, SnS, Per Device,1Year
N1-S57L-F-Lic	N1-CloudCampus, Foundation, S57XX-L Series, Per Device
N1-S57L-F-SnS	N1-CloudCampus, Foundation, S57XX-L Series, SnS, Per Device
N1-S57L-A-Lic	N1-CloudCampus, Advanced, S57XX-L Series, Per Device
N1-S57L-A-SnS	N1-CloudCampus, Advanced, S57XX-L Series, SnS, Per Device
N1-S57L-FToA-Lic	N1-Upgrade-Foundation to Advanced, S57XX-L, Per Device
N1-S57L-FToA-SnS	N1-Upgrade-Foundation to Advanced, S57XX-L, SnS, Per Device

More Information

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

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

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