

Huawei CloudEngine S5735I-H-V2 Series TSN Industry Switches (Rack-mounted) Datasheet

Huawei CloudEngine S5735I-H-V2 series TSN industry switches are standard industry switches that provide GE downlink ports and GE, 10GE SFP+ uplink ports.

Introduction

Huawei CloudEngine S5735I-H-V2 series TSN industry switches (S5735I-H-V2 for short) are next-generation standard Layer 3 gigabit switches that provide flexible all-gigabit access and GE/10GE uplink ports.

TSN industry switches have an industrial-grade operating temperature range to withstand harsh outdoor environments. As such, they can be widely used in ultra-broadband operating temperature scenarios, such as smart manufacturing, smart mining, smart transportation, safe city, and electric power.

Product Overview

Models and Appearances

The following models are available in the CloudEngine S5735I-H-V2 series.

Models and appearances of the CloudEngine S5735I-H-V2 series

Models and Appearances	Description
CloudEngine S5735I-H24U8S4XE-QA-V2	 24 x 10/100/1000Base-T Ethernet ports, 8 x 100/1000BASE-X SFP ports, 4 x 1/10GE SFP+ ports, 2 x 12GE stack ports, 1 x DI, 1 x DO Built-in Dual AC 8 x PoE++ & 16 x PoE+ Forwarding performance: 144 Mpps Switching capacity:192Gbps/520 Gbps* Note: port1~8 support PoE++, port9~24 support PoE+

*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.

Product Features and Highlights

Powerful Service Processing Capability

• CloudEngine S5735I-H-V2 supports a broad set of Layer 2/Layer 3 multicast protocols, such as PIM SM, PIM DM, PIM SSM, and IGMP snooping. This capability is ideal for high-definition video backhaul and video conferencing access.

• CloudEngine S5735I-H-V2 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.

Multiple Security Control Mechanisms

• CloudEngine S5735I-H-V2 supports MAC address authentication, 802.1X authentication, and implements dynamic delivery of policies (VLAN, QoS, and ACL) to users.

• CloudEngine S5735I-H-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 S5735I-H-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 S5735I-H-V2 supports strict ARP learning, which protects a network against ARP spoofing attacks to ensure that users can connect to the Internet normally.

• CloudEngine S5735I-H-V2 supports policy association, user permission policy management and policy execution, and user permission association switchover based on the authentication status.

Multiple Reliability Mechanisms

• CloudEngine S5735I-H-V2 supports a single power module or two power modules. When two power modules are used, the power modules work in 1+1 backup mode.

• In addition to traditional Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), and Multiple Spanning Tree Protocol (MSTP), the CloudEngineS5735I-H-V2 supports Huawei-developed Smart Ethernet Protection (SEP) technology and the latest Ethernet Ring Protection Switching (ERPS) standard. ERPS is defined in ITU-T G.8032. It implements 20ms fast protection switching based on traditional Ethernet MAC and bridging functions.

• CloudEngine S5735I-H-V2 supports Smart Link, which implements backup of uplinks. One CloudEngine S5735I-S switch can connect to multiple aggregation switches through multiple links, significantly improving reliability of access devices.

Easy Network deployment

• CloudEngine S5735I-H-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 capabilities facilitate device deployment, upgrade, service provisioning, and other management and maintenance operations, and also greatly reduce O&M costs. CloudEngine S5735I-H-V2 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 Technologies

CloudEngine S5735I-H-V2 supports IPv4/IPv6 dual stack, IPv6 RIPng, BGP4+, OSPFv3.

• CloudEngine S5735I-H-V2 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)

• CloudEngine S5735I-H-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 S5735I-H-V2 support stacking through electrical ports.

• CloudEngine S5735I-H-V2 support two dedicated stack ports and support configuration-free and plug-and-play of dedicated stack cables.

PoE Function

CloudEngine S5735I-H-V2 PoE models can support PoE++, Meeting high-power power supply requirements for Wi-Fi 6 APs, IP cameras, and Video phones.

• **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 S5735I-H-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.

TSN Network

• CloudEngine S5735I-H-V2 provides the TSN function. Based on high-precision time synchronization and time gating scheduling (802.1Qbv), the switches provide the deterministic delay network and TSN deterministic network, which can be used in scenarios such as industrial control and motion control.

Intelligent O&M

• CloudEngine S5735I-H-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 S5735I-H-V2 supports the intelligent upgrade feature. Specifically, CloudEngine S5735I-H-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.

NCE Management

• The Huawei NCE Campus 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 NCE Campus 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(Open Programmability System)

• CloudEngine S5735I-H-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 S5735I-H-V2 switch through Python scripts to quickly innovate functions and implement intelligent O&M.

Licensing

CloudEngine S5735I-H-V2 supports both the traditional feature-based licensing mode, TSN Basic Function License 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 Note: For details, see the Service Features	\checkmark	\checkmark	\checkmark
 Basic network automation based on the iMaster NCE- Campus: NE management: Device management, topology management and discovery User access authentication 	×	\checkmark	V
Advanced network automation and intelligent O&M: IPCA, CampusInsight basic functions	×	×	\checkmark

Product Specifications

Functions and Features

ltem	Description
MAC address table	IEEE 802.1d compliance
	32K MAC entries
	MAC address learning and aging
	Static, dynamic, and blackhole MAC address entries
	Packet filtering based on source MAC addresses
VLAN	4094 VLANs
	Voice VLAN
	MUX VLAN
	VLAN assignment based on MAC addresses, protocols, IP subnets, policies, and ports
	VLAN Stacking, VLAN mapping
Reliability	Smart Link tree topology and Smart Link multi-instance, providing millisecond-level protection switchover
	SEP
	STP (IEEE 802.1d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s)
	ERPS (G.8032)
	BPDU protection, root protection, and loop protection
	LBDT
	Y.1731
IP routing	Static route, RIPv1/v2, RIPng, OSPF, OSPFv3, ECMP, IS-IS, IS-ISv6, BGP, BGP4+, VRRP, and VRRP6

ltem	Description
	Up to 8192 FIBv4 entries
	Up to 3072 FIBv6 entries
IPv6 features	Up to 3072 ND entries
	Path MTU (PMTU)
	IPv6 ping, IPv6 tracert, and IPv6 Telnet
Multicast	PIM DM, PIM SM, PIM SSM, PIMv6
	IGMP v1/v2/v3, IGMP v1/v2/v3 snooping, MLD snooping and IGMP fast leave
	Multicast load balancing among member ports of a trunk
	Port-based multicast traffic statistics
	Multicast VLAN
TSN	IEEE 802.1Qbv, µs-level deterministic latency
Industrial	Profinet RT, Ethernet/IP, Modbus TCP, OPC UA and GOOSE mainstream industrial protocol forwarding
Agreement	IEEE 1588v2 clock synchronization
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
	DRR, SP and DRR+SP queue scheduling algorithms
	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 port number, protocol type, and VLAN ID
	Rate limiting in each queue and traffic shaping on ports
	Profinet RT, Ethernet/IP, Modbus TCP, and OPC UA mainstream industrial protocol forwarding
	Network Slicing (VLAN)
Security	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
	Blackhole MAC address entries
	Limit on the number of learned MAC addresses
	IEEE 802.1x authentication and limit on the number of users on a port
	AAA authentication, RADIUS authentication, HWTACACS authentication, and NAC
	SSH v2.0
	HTTPS

ltem	Description
	CPU defense
	Blacklist and whitelist
	IEEE 802.1x authentication, MAC address authentication
	DHCPv4 client/relay/server/snooping
	DHCPv6 client/relay
	Attack source tracing and punishment for IPv6 packets such as ND, DHCPv6
	ND snooping
Management	NCE Campus management based on Netconf/Yang
and maintenance	Virtual cable test
	SNMP v1/v2c/v3
	RMON
	Web-based NMS
	System logs and alarms of different levels
	802.3az EEE
	1588v2
	Registration Center Deployment
	GVRP
	iPCA、sFlow、NQA、Telemetry
Interoperability	Supports VBST (Compatible with PVST/PVST+/RPVST)

Hardware Specifications

Hardware specifications of the CloudEngine S5735I-H8T4S2XN-V2 models

Item		S5735I-H24U8S4XE-QA-V2
Physical specifications	Dimensions (H x W x D, mm)	43.6 mm x 442 mm x 360 mm
	Chassis weight (including packaging)	8.0kg
Fixed port	GE port	24
	GE SFP port	8
	10GE SFP+ port	4
	Dedicated 12GE stack port	2
	RS485	NA
	DI/DO	1
Management port	Console port (RJ45)	Supported
	USB port	Supported
CPU	Frequency	1.1 GHz
	Cores	2

Item		S5735I-H24U8S4XE-QA-V2
Storage	Memory (RAM)	2 GB
	Flash memory	1 GB in total. To view the available flash memory size, run the display
Power supply	Power supply type	Built-in Dual AC
system	Power supply redundancy	1+1
	Rated voltage range	AC input: 110V/240V ACHVDC input: 240V DC
	Maximum voltage range	 AC input: 100V~290V AC HVDC input: 190V~290V DC
	Maximum input current	5A
	Maximum power consumption of the device	 58 W (without PD) 195 W (PD power consumption of 130W with single power supply) 333 W (PD power consumption of 250W with dual power supply)
	Typical power consumption	47.4 W
	PoE power consumption	 Single power supply input: 130 W Dual power supply input: 250 W (60°C@No wind) 320 W (50°C@No wind)
Heat dissipation	Heat dissipation mode	Natural heat dissipation
system	Number of fan modules	0
	Airflow	NA
	Maximum heat dissipation of the device (BTU/hour)	198.0
Environment parameters	Long-term operating temperature	0–1800 m altitude, industry optical modules: -40°C to +60°C (installed in the sealing cabinet) -40°C to +70°C (installed in the ventilation cabinet, with the wind speed of at least 40 LFM) -40°C to +75°C (installed in the ventilation cabinet shipped with fans running at a speed of at least 200 LFM)
	Short-term operating temperature ³	NA
	Storage temperature	-40°C to +85°C
	Relative humidity	5% to 95% (non-condensing)
	Operating altitude	5000 m
	Noise under normal temperature (sound power)	Noise-free (no fans)
	Noise under high temperature (sound power)	Noise-free (no fans)

ltem		S5735I-H24U8S4XE-QA-V2
	Noise under normal temperature (sound pressure)	Noise-free (no fans)
	Ingress protection level	IP40
	Surge protection specification (power port)	\pm 6 kV in differential mode, \pm 4 kV in common mode
Reliability	MTBF (year) ²	42.98
	MTTR (hour)	2
	Availability	> 0.99999
Certification		EMC certificationSafety certificationManufacturing certification

Networking and Applications

Video surveillance application, outdoor cabinet

CloudEngine S5735I-H-V2 series switches supports extended operating temperature range, with professional surge protection capabilities, suitable for outdoor environment. CloudEngine S5735I-H-V2 series switch can be used for safe city scenario to provide remote access for the camera.



ETTx scenario

CloudEngine S5735I-H-V2 series switches supports extended operating temperature and provides GE access and 10GE uplinks for ETTx access scenarios.



Safety and Regulatory Compliance

Certification Category	Description
Certification Standards	 CE (EN 55032 、EN 55035 、EN 300386、EN62368-1) NRTL (UL62368-1) IC (ICES-003) RCM (AS/NZS CIPSR32) IEC61850-3/IEEE1613 CQC (GB4943,GB9254) VCCI (VCCI-CISPR 32) RoHS&REACH&WEEE SDOC
Vibration and shock, environmental testing	 IEC61850-3 IEEE1613 EN 50121-3-2 EN 50125-3 NEMA TS2 ISTA 2A-2011 IEC 60068-2-64 IEC 60068-2-27 IEC 60068-2-31 ETSI EN 300 019-2-2
EMC	 EN 55032, CLASS A EN 55035, CLASS A IEEE1613 EN61850-3 EN 50121-1 EN 50121-4 EN 61000-3-2 EN 61000-3-3

Certification Category	Description
Certification Category	 AS/NZS CISPR 32 CLASS A CISPR 32 CISPR 35 VCCI-CISPR 32 , CLASS A FCC CFR Title 47, Part 15, Subpart B , Class A FCC CFR Title 47, Part 15, Subpart B , Class A ICES-003 Issue 7 CLASS A ETSI EN 300386 IEC 61000-4-2 (ESD IEC 61000-4-3 (RS) IEC 61000-4-4 (EFT) IEC 61000-4-5 (Surge) IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-10 IEC 61000-4-16 Conducted CM Disturbances (30V, Cont/ 300V, 1 sec) IEC 61000-4-17 Ripple Immunity DC Power (10%) IEC 61000-4-18 Damped Oscillatory Wave (2.5kV, 1MHz)
Safety	 IEC 61000-4-29 DC Voltage Dips and Interruptions EN 62368-1 UL 62368-1 IEC 62368-1 IEC 61850-3/IEEE 1613
Environment	 ETSI EN 300 019-2-1 ETSI EN 300 019-2-3 IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-14 IEC 60068-2-78 IEC 60068-2-30 IEC 60068-2-39

MIB and Standards Compliance

Supported MIBs

Category	МІВ
Public MIB	 BRIDGE-MIB DISMAN-NSLOOKUP-MIB DISMAN-PING-MIB DISMAN-TRACEROUTE-MIB ENTITY-MIB EtherLike-MIB IF-MIB

Category	мів
	• IP-FORWARD-MIB
	• IPv6-MIB
	• LAG-MIB
	LLDP-EXT-DOT1-MIB
	LLDP-EXT-DOT3-MIB
	LLDP-MIB
	NOTIFICATION-LOG-MIB
	• NQA-MIB
	OSPF-TRAP-MIB
	P-BRIDGE-MIB
	• Q-BRIDGE-MIB
	• RFC1213-MIB
	RIPv2-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
	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

Category	МІВ
	HUAWEI-DLDP-MIB
	HUAWEI-ELMI-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-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-MULTICAST-MIB
	HIJAWEI-RM-EXT-MIB
	HUAWEI-RRPP-MIB
	HUAWEI-SECURITY-MIB
	• HUAWEI-SEP-MIB
	HUAWEI-SNMP-EXT-MIB
	• HUAWEI-SSH-MIB

Category	мів
	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

Standard	Standard or Protocol
Organization	
IETF	RFC 768 User Datagram Protocol (UDP)
	RFC 792 Internet Control Message Protocol (ICMP)
	RFC 793 Transmission Control Protocol (TCP)
	RFC 826 Ethernet Address Resolution Protocol (ARP)
	RFC 854 Telnet Protocol Specification
	RFC 951 Bootstrap Protocol (BOOTP)
	RFC 959 File Transfer Protocol (FTP)
	RFC 1058 Routing Information Protocol (RIP)
	RFC 1112 Host extensions for IP multicasting
	RFC 1157 A Simple Network Management Protocol (SNMP)
	RFC 1256 ICMP Router Discovery
	RFC 1305 Network Time Protocol Version 3 (NTP)
	RFC 1349 Internet Protocol (IP)
	RFC 1493 Definitions of Managed Objects for Bridges
	RFC 1542 Clarifications and Extensions for the Bootstrap Protocol
	RFC 1643 Ethernet Interface MIB
	RFC 1757 Remote Network Monitoring (RMON)
	RFC 1901 Introduction to Community-based SNMPv2
	• RFC 1902-1907 SNMP v2
	RFC 1981 Path MTU Discovery for IP version 6
	RFC 2131 Dynamic Host Configuration Protocol (DHCP)
	RFC 2328 OSPF Version 2
	RFC 2453 RIP Version 2
	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 2740 OSPF for IPv6 (OSPFv3)
	RFC 2863 The Interfaces Group MIB
	RFC 2597 Assured Forwarding PHB Group
	RFC 2598 An Expedited Forwarding PHB

Standard Organization	Standard or Protocol
	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+
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 802.1ab 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
	IEEE 802.3at DTE Power via the MDI Enhancements
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/YMODEM Protocol Reference

Ordering Information

Model	Product Description
CloudEngine S5735I- H24U8S4XE-QA-V2	CloudEngine S5735I-H24U8S4XE-QA-V2 (24*10/100/1000BASE-T ports(8*POE++&16*POE+), 8*GE SFP ports,4*10GE SFP+ ports, 2*12.5GE stack ports, Rack Mounting, Dual AC power, Fanless)
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-SnS1Y	N1-CloudCampus,Foundation,S57XX-S Series,SnS,Per Device,1Year
N1-S57S-A-Lic	N1-CloudCampus,Advanced,S57XX-S Series,Per Device
N1-S57S-A-SnS1Y	N1-CloudCampus,Advanced,S57XX-S Series,SnS,Per Device,1Year
N1-S57S-FToA-Lic	N1-Upgrade-Foundation to Advanced,S57XX-S,Per Device
N1-S57S-FToA-SnS1Y	N1-Upgrade-Foundation to Advanced, S57XX-S, SnS, Per Device, 1Year
L-TSN-S57IH	TSN Basic Function License, Per Device

The following table lists ordering information of the CloudEngine S5735I-H-V2 series switches.

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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