Huawei CloudEngine S5735I-H-V2 Series TSN Industry Switches (DIN-rail)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 as well as professional outdoor surge protection 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-H8T4S2XN-V2	• 8 x 10/100/1000Base-T Ethernet ports, 4 x GE SFP ports, 2 x 10GE SFP+ ports, 1 x DI/DO, 1 x RS485 • DC external or AC adapter • 1+1 power supply backup • Forwarding performance: 48 Mpps • Switching capacity*:64 Gbps/520 Gbps
 CloudEngine S5735I-H8T2XN-V2	• 8 x 10/100/1000Base-T Ethernet ports, 2 x 10GE SFP+ ports, 1 x DI/DO • DC external or AC adapter • 1+1 power supply backup • Forwarding performance: 42 Mpps • Switching capacity:56 Gbps/520 Gbps*

Models and Appearances	Description
 CloudEngine S5735I-H8U2XN-V2	• 8 x 10/100/1000Base-T Ethernet ports, 2 x 10GE SFP+ ports, 1 x DI/DO • PoE++ • DC external or AC adapter • 1+1 power supply backup • Forwarding performance: 42 Mpps • Switching capacity:56 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.

Power Supply

Technical specifications of the power supplies applicable to the CloudEngine S5735I-H-V2 series

Power Module	Technical Specifications	Applied Switch Model
 PAC60S12-AN	• Dimensions (H x W x D): 150 mm x 40 mm x 130 mm • Weight: 0.9 kg • Rated input voltage range: – 100 V AC to 240 V AC, 50/60 Hz – 100V DC to 250 V DC • Maximum input voltage range: – 90 V AC to 290 V AC – 88 V DC to 300 V DC • Rated input current: – 2 A • Rated output voltage: – 12 V DC • Rated output current: 5 A • Rated output power: – 60 W • Hot swap: Supported	• CloudEngine S5735I-H8T4S2XN-V2 • CloudEngine S5735I-H8T2XN-V2
 PAC240S56-CN	• Dimensions (H x W x D): 150 mm x 60 mm x 133 mm • Weight: 1.47 kg • Rated input voltage range: – 100 V AC to 240 V AC, 50/60 Hz – 100V DC to 250 V DC • Maximum input voltage range: – 90 V AC to 290 V AC, 45/66 Hz – 77 V DC to 300 V DC • Maximum Input current: – 100V AC～240V AC：3 A – 100V DC～138V DC：2.5 A – 138V DC～250V DC：2 A • Rated output voltage:	• CloudEngine S5735I-H8U2XN-V2

Power Module	Technical Specifications	Applied Switch Model
	− 56 V DC • Rated output power: − 240W total (PoE output 220W) • Hot swap: Supported	

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. The can be directly connected to an external DC power supply or powered by a power module.
- 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 10ms 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.

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.
- CloudEngine S5735I-H-V2 supports WebMaster solution, WebMaster is an embedded local management system. It automatically discovers network topology and provides full-network visibility, including topology views, network elements (NEs), and device alarms. The solution also enables unified management of switches, AR routers, and APs—without requiring an external network management system.WebMaster offers a graphical interface for intuitive operations, including guided service provisioning, one-click batch upgrades, zero-configuration device replacement, and automatic authentication and onboarding of NEs. It can also detect loops caused by incorrect cable connections and eliminate them automatically.With its rich feature set, WebMaster enables the entire campus network to be visible, manageable, and controllable—all through a single device.

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	√	√	√
Basic network automation based on the iMaster NCE-Campus: • NE management: Device management, topology management and discovery • User access authentication	×	√	√
Advanced network automation and intelligent O&M: IPCA, CampusInsight basic functions	×	×	√

Product Specifications

Functions and Features

Item	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	4K VLANs
	4K VLANif interface simultaneously
	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), Ring Network Switching≤10ms
	BPDU protection, root protection, and loop protection
	*HSR dual fed and selective receiving, 0 packet loss, PTP over HSR
	IEEE 1588v2 clock synchronization
	LBDT

Item	Description
	Y.1731
IP routing	Static route, RIPv1/v2, RIPng, OSPF, OSPFv3, ECMP, IS-IS, IS-ISv6, BGP, BGP4+, VRRP, and VRRP6
	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 Agreement	Profinet RT, Ethernet/IP, Modbus TCP, OPC UA and GOOSE mainstream industrial protocol forwarding
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

Item	Description
	HTTPS
	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
	policy association
Management and maintenance	NCE Campus management based on Netconf/Yang
	Virtual cable test
	SNMP v1/v2c/v3
	RMON
	Web-based NMS
	System logs and alarms of different levels
	802.3az EEE
	1588v2 BC/1588v2 TC
	Registration Center Deployment
	GVRP
	iPCA、sFlow、NQA、Telemetry
	WebMaster management
Interoperability	Supports VBST (Compatible with PVST/PVST+/RPVST)

**Note: only S5735I-H8T4S2XN-V2 supports HSR*

Hardware Specifications

Hardware specifications of the CloudEngine S5735I-H8T4S2XN-V2 models

Item		CloudEngine S5735I-H8T4S2XN-V2	CloudEngine S5735I-H8T2XN-V2	CloudEngine S5735I-H8U2XN-V2
Physical specifications	Dimensions (H x W x D, mm)	150.0 mm x 120.0 mm x 133.0 mm	150.0 mm x 44.0 mm x 133.0 mm	150.0 mm x 120.0 mm x 133.0 mm
	Chassis weight (including packaging)	2.54 kg	1.3 kg	2.54 kg
Fixed port	GE port	8	8	8
	GE SFP port	4	NA	4
	10GE SFP+ port	2	2	2

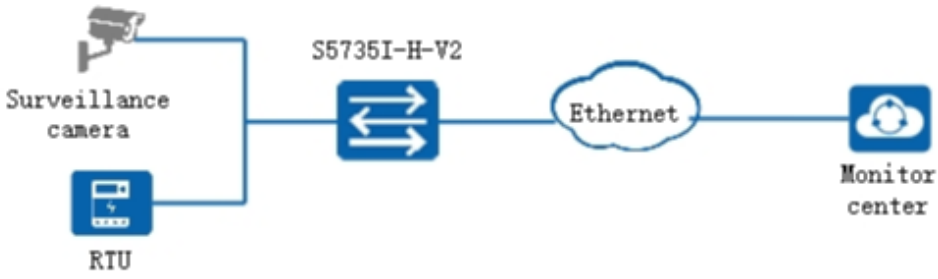
Item		CloudEngine S5735I-H8T4S2XN-V2	CloudEngine S5735I-H8T2XN-V2	CloudEngine S5735I-H8U2XN-V2
	Dedicated 12GE stack port	NA	NA	NA
	RS485	1	NA	NA
	DI/DO	1	1	1
Management port	Console port (RJ45)	Supported	Supported	Supported
	USB port	Supported	Supported	Supported
CPU	Frequency	1.1 GHz	1.1 GHz	1.1 GHz
	Cores	2	2	2
Storage	Memory (RAM)	2 GB	2 GB	2 GB
	Flash memory	1 GB in total. To view the available flash memory size, run the display	1 GB in total. To view the available flash memory size, run the display	1 GB in total. To view the available flash memory size, run the display
Power supply system	Power supply type	60W AC (AC power adapter) or DC external	60W AC (AC power adapter) or DC external	240W AC (AC power adapter) or DC external
	Power supply redundancy	1:1 hot backup	1:1 hot backup	1:1 hot backup
	Rated voltage range	• DC input: 12V DC～48V DC	• DC input: 12V DC～48V DC	• DC input: 56V DC
	Maximum voltage range	• DC input: 9.6V DC～60V DC	• DC input: 9.6V DC～60V DC	• DC input: 54–57 V DC (PoE/PoE+/PoE++) or 48 V DC (PoE)
	Maximum input current	2 A	2 A	6 A
	Maximum power consumption of the device	33.8 W	23 W	• Without PoE: 23.3 W • Full PoE load: 270 W (PoE: 240 W)
	Typical power consumption	25.3 W	16.4 W	16.4 W
Heat dissipation system	Heat dissipation mode	Natural heat dissipation	Natural heat dissipation	Natural heat dissipation
	Number of fan modules	0	0	0
	Airflow	NA	NA	NA
	Maximum heat dissipation of the device (BTU/hour)	63.4	78.5	• Without PoE: 79.5 • Full PoE load: 921.3 (PoE: 818.9)
Environment parameters	Long-term operating temperature	0–1800 m altitude, industry optical modules: -40°C to +60°C (installed in	0–1800 m altitude, industry optical modules: -40°C to +60°C (installed	0–1800 m altitude, industry optical modules: -40°C to +60°C

Item		CloudEngine S5735I-H8T4S2XN-V2	CloudEngine S5735I-H8T2XN-V2	CloudEngine S5735I-H8U2XN-V2
		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)	in the sealing cabinet) -40°C to +70°C (installed in the ventilation cabinet, with the wind speed of at least 80 LFM) -40°C to +75°C (installed in the ventilation cabinet shipped with fans running at a speed of at least 200 LFM)	(installed in the sealing cabinet) -40°C to +70°C (installed in the ventilation cabinet, with the wind speed of at least 80 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	NA	NA
	Storage temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
	Relative humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)	5% to 95% (non-condensing)
	Operating altitude	5000 m	5000 m	5000 m
	Noise under normal temperature (sound power)	Noise-free (no fans)	Noise-free (no fans)	Noise-free (no fans)
	Noise under high temperature (sound power)	Noise-free (no fans)	Noise-free (no fans)	Noise-free (no fans)
	Noise under normal temperature (sound pressure)	Noise-free (no fans)	Noise-free (no fans)	Noise-free (no fans)
	Ingress protection level	IP40	IP40	IP40
	Surge protection specification (power port)	Using DC power modules: ±4 kV in differential mode, ±2 kV in common mode	Using DC power modules: ±4 kV in differential mode, ±2 kV in common mode	Using DC power modules: ±4 kV in differential mode, ±2 kV in common mode
Reliability	MTBF	78.4 years (686,784 hours)	70.46 years (617,229.6 hours)	67.24 years (589,022.4 hours)
	MTTR(hours)	2	2	2
	Availability	> 0.99999	> 0.99999	> 0.99999
Certification		• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification	• EMC certification • Safety certification • Manufacturing certification

Networking and Applications

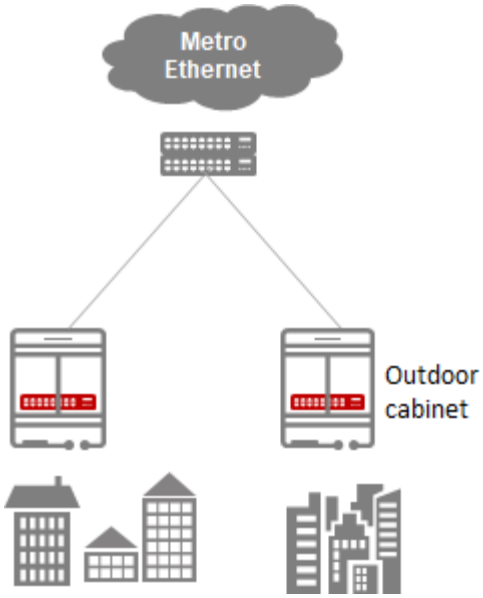
Video surveillance application, outdoor cabinet

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.



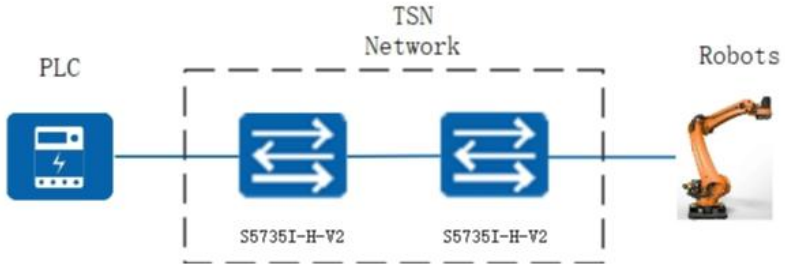
ETTx scenario

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



Deterministic Latency scenario

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



MIB and Standards Compliance

Supported MIBs

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 • 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

Category	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-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 • HUAWEI-NAP-MIB • HUAWEI-NTPV3-MIB

Category	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

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 • 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)

Standard Organization	Standard or Protocol
	• 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 • 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 802.3u 100BASE-T specification • 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

Standard Organization	Standard or Protocol
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

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

Model	Product Description
CloudEngine S5735I-H8T4S2XN-V2	CloudEngine S5735I-H8T4S2XN-V2(8*10/100/1000BASE-T ports, 4*GE SFP+ ports,2*10GE SFP+ ports, DIN Rail Mounting, Dual redundant 9.6 to 60V DC power, Fanless)
CloudEngine S5735I-H8T2XN-V2	S5735I-H8T2XN-V2 (8*10/100/1000BASE-T ports, 2*10GE SFP+ ports, DIN Rail Mounting, Dual redundant 9.6 to 60V DC power, Fanless, 1588)
CloudEngine S5735I-H8U2XN-V2	S5735I-H8U2XN-V2 (8*10/100/1000BASE-T ports, PoE++, 2*10GE SFP+ ports, DIN Rail Mounting, Dual redundant 54 to 57V DC power, Fanless,1588)
PAC60S12-AN	Industrial 60 W AC power module,DIN RAIL
PAC240S56-CN	Industrial 240W PoE power module, DIN RAIL
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

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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