# Huawei CloudEngine S6730-H-V2 Series 10GE Switches Datasheet

Huawei CloudEngine S6730-H-V2 series 10GE switches are next-generation enterprise-class core and aggregation switches that provide 24/48-10GE downlink optical ports and 100GE uplink optical ports, and provide one extended slot.

## Introduction

Huawei CloudEngine S6730-H-V2 series switches are next-generation enterprise-class core and aggregation switches that offer high performance, high reliability, cloud management, and intelligent operations and maintenance (O&M). They are purpose-built with security, IoT, and cloud in mind. With these traits, CloudEngine S6730-H-V2 can be widely used in enterprise campuses, colleges/universities and other scenarios.

CloudEngine S6730-H-V2 switches offer 10GE, 40GE, and 100GE port types, flexibly adapting to diversified network bandwidth requirements. They also support cloud management and implement cloud-managed network services throughout the full lifecycle from planning, deployment, monitoring, experience visibility, and fault rectification, all the way to network optimization, greatly simplifying network management.

CloudEngine S6730-H-V2 support free mobility, enables consistent user experience no matter the user location or IP address, fully meeting enterprises' demands for mobile offices.

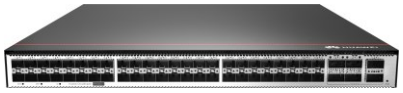
CloudEngine S6730-H-V2 switches support VXLAN to implement network virtualization, achieving multi-purpose networks and multi-network convergence for greatly improved network capacity and utilization. As such, CloudEngine S6730-H-V2 switches are an ideal choice for building next-generation IoT converged networks in terms of cost, flexibility, and scalability.

## Product Overview

### Models and Appearances

The following models are available in the CloudEngine S6730-H-V2 series.

| Appearance | Description |
|---|---|
| <br>CloudEngine S6730-H48X6C-V2<br>CloudEngine S6730-H48X6C-TV2** | • 48 x 1/10 Gig SFP+, 6 x 40/100 Gig QSFP28<br>• Dual pluggable power modules, 1+1 power backup<br>• Forwarding performance: 490 Mpps<br>• Switching capacity: 2.16Tbps/2.4Tbps*<br>*Note: All ports support 40GE by default. You can purchase right-to-use (RTU) licenses to upgrade the port rate from 40GE to 100GE* |
| <br>CloudEngine S6730-H24X6C-V2<br>CloudEngine S6730-H24X6C-TV2** | • 24 x 1/10 Gig SFP+, 6 x 40/100 Gig QSFP28<br>• Dual pluggable power modules, 1+1 power backup<br>• Forwarding performance: 490 Mpps<br>• Switching capacity: 1.68Tbps/2.4Tbps* |

| Appearance | Description |
| --- | --- |
| | *Note: All ports support 40GE by default. You can purchase right-to-use (RTU) licenses to upgrade the port rate from 40GE to 100GE* |
| <br>CloudEngine S6730-H48X6CZ-V2<br>CloudEngine S6730-H48X6CZ-TV2** | • 48 x 10 Gig SFP+, 6 x 40/100 Gig QSFP28<br>• One extended slot<br>• Dual pluggable power modules, 1+1 power backup<br>• Forwarding performance: 490 Mpps<br>• Switching capacity: 2.16Tbps/2.4Tbps*<br>*Note: All ports support 40GE by default. You can purchase right-to-use (RTU) licenses to upgrade the port rate from 40GE to 100GE* |
| <br>CloudEngine S6730-H28X6CZ-V2<br>CloudEngine S6730-H28X6CZ-TV2** | • 28 x 10 Gig SFP+, 6 x 40/100 Gig QSFP28<br>• One extended slot<br>• Dual pluggable power modules, 1+1 power backup<br>• Forwarding performance: 490 Mpps<br>• Switching capacity: 1.76Tbps/2.4Tbps*<br>*Note: All ports support 40GE by default. You can purchase right-to-use (RTU) licenses to upgrade the port rate from 40GE to 100GE* |

*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.

## Fan Module

The following table lists the fan module on the CloudEngine S6730-H-V2 series.

| Fan Module | Technical Specifications | Applied Switch Model |
| --- | --- | --- |
| <br>FAN-031A-B | • Dimensions (W x D x H): 40 mm x 100.3 mm x 40 mm<br>• Number of fans: 1<br>• Weight: 0.1 kg<br>• Maximum power consumption: 21.6 W<br>• Maximum fan speed: 24500±10% revolutions per minute (RPM)<br>• Maximum wind rate: 31 cubic feet per minute (CFM)<br>• Hot swap: Supported | • CloudEngine S6730-H48X6C-V2<br>• CloudEngine S6730-H48X6C-TV2<br>• CloudEngine S6730-H24X6C-V2<br>• CloudEngine S6730-H24X6C-TV2<br>• CloudEngine S6730-H48X6CZ-V2<br>• CloudEngine S6730-H48X6CZ-TV2<br>• CloudEngine S6730-H28X6CZ-V2<br>• CloudEngine S6730-H28X6CZ-TV2 |

## Power Supply

The following table lists the power supplies on the CloudEngine S6730-H-V2 series.

| Power Module | Technical Specifications | Applied Switch Model |
| --- | --- | --- |

| Power Module | Technical Specifications | Applied Switch Model |
| --- | --- | --- |
| <br>PAC600S12-CB | • Dimensions (H x W x D): 40 mm x 90 mm x 215 mm<br>• Weight: 0.95 kg (2.09 lb)<br>• Rated input voltage range:<br>– 100 V AC to 240 V AC, 50/60 Hz<br>– 240 V DC<br>• Maximum input voltage range:<br>– 90 V AC to 290 V AC, 45 Hz to 65 Hz<br>– 190 V DC to 290 V DC<br>• Maximum input current:<br>– 100 V AC to 240 V AC: 8 A<br>– 240 V DC: 4 A<br>• Maximum output current: 50 A<br>• Rated output voltage: 12 V<br>• Maximum output power: 600 W<br>• Hot swap: Supported | • CloudEngine S6730-H48X6C-V2<br>• CloudEngine S6730-H24X6C-V2<br>• CloudEngine S6730-H48X6C-TV2<br>• CloudEngine S6730-H24X6C-TV2 |
| <br>PAC600S12-EB | • Dimensions (H x W x D): 40 mm x 90 mm x 215 mm<br>• Weight: 0.985 kg<br>• Rated input voltage range:<br>– 100 V AC to 240 V AC, 50/60 Hz<br>– 240 V DC<br>• Maximum input voltage range:<br>– 90 V AC to 290 V AC, 45 Hz to 65 Hz<br>– 190 V DC to 290 V DC<br>• Maximum input current:<br>– 100 V AC to 240 V AC: 8 A<br>– 240 V DC: 4 A<br>• Maximum output current: 50 A<br>• Rated output voltage: 12 V<br>• Maximum output power: 600 W<br>• Hot swap: Supported | • CloudEngine S6730-H48X6C-V2<br>• CloudEngine S6730-H24X6C-V2<br>• CloudEngine S6730-H48X6C-TV2<br>• CloudEngine S6730-H24X6C-TV2 |
| <br>PAC600S12-DB | • Dimensions (H x W x D): 40 mm x 90 mm x 215 mm<br>• Weight: 0.95 kg<br>• Rated input voltage range:<br>– 100 V AC to 240 V AC, 50/60 Hz<br>– 240 V DC<br>• Maximum input voltage range:<br>– 90 V AC to 290 V AC, 45 Hz to 65 Hz<br>– 190 V DC to 290 V DC<br>• Maximum input current:<br>– 100 V AC to 240 V AC: 8 A<br>– 240 V DC: 4 A<br>• Maximum output current: 50 A<br>• Rated output voltage: 12 V<br>• Maximum output power: 600 W | • CloudEngine S6730-H48X6C-V2<br>• CloudEngine S6730-H24X6C-V2<br>• CloudEngine S6730-H48X6C-TV2<br>• CloudEngine S6730-H24X6C-TV2 |

| Power Module | Technical Specifications | Applied Switch Model |
| --- | --- | --- |
| | • Hot swap: Supported | |
| <br>PDC1000S12-DB | • Dimensions (H x W x D): 40 mm x 90 mm x 215 mm<br>• Weight: 1.02 kg (2.25 lb)<br>• Rated input voltage range: -48 V DC to -60 V DC<br>• Maximum input voltage range: -38.4 V DC to -72 V DC<br>• Maximum input current: 30 A<br>• Maximum output current: 83.3 A<br>• Maximum output power: 1000 W<br>• Hot swap: Supported | • CloudEngine S6730-H48X6C-V2<br>• CloudEngine S6730-H24X6C-V2<br>• CloudEngine S6730-H48X6C-TV2<br>• CloudEngine S6730-H24X6C-TV2 |
| <br>PAC600S12-PB | • Dimensions (H x W x D): 40 mm x 66 mm x 215 mm (1.6 in. x 2.6 in. x 8.5 in.)<br>• Weight: 1 kg (2.2 lb)<br>• Rated input voltage range:<br>– 100 V AC to 240 V AC, 50/60 Hz<br>– 240 V DC<br>• Maximum input voltage range:<br>– 90 V AC to 290 V AC, 45 Hz to 65 Hz<br>– 190 V DC to 290 V DC<br>• Maximum input current:<br>– 100 V AC to 240 V AC: 8 A<br>– 240 V DC: 4 A<br>• Maximum output current: 50 A<br>• Rated output voltage: 12 V<br>• Maximum output power: 600 W<br>• Hot swap: Supported | • CloudEngine S6730-H48X6CZ-V2<br>• CloudEngine S6730-H48X6CZ-TV2<br>• CloudEngine S6730-H28X6CZ-V2<br>• CloudEngine S6730-H28X6CZ-TV2 |
| <br>PAC1K2S12-PB | • Dimensions (H x W x D): 39.6 mm x 66 mm x 215 mm<br>• Weight: 0.84 kg<br>• Rated input voltage range:<br>– 200V AC～240V AC；50/60Hz<br>– 100V AC～130V AC；50/60Hz<br>– 240V DC<br>• Maximum input voltage range:<br>– AC：90V AC～290V AC；45Hz～65Hz<br>– HVDC：190V DC～290V DC<br>• Maximum input current:<br>– 100V AC～130V AC：10A<br>– 200V AC～240V AC：8A<br>– 240V DC：8A<br>• Maximum output current: 100 A<br>• Maximum output power: 1200 W<br>• Hot swap: Supported | • CloudEngine S6730-H48X6CZ-V2<br>• CloudEngine S6730-H48X6CZ-TV2<br>• CloudEngine S6730-H28X6CZ-V2<br>• CloudEngine S6730-H28X6CZ-TV2 |

| Power Module | Technical Specifications | Applied Switch Model |
| --- | --- | --- |
| <br>PDC1K2S12-CE | • Dimensions (H x W x D): 40 mm x 66 mm x 215 mm (1.6 in. x 2.6 in. x 8.5 in.)<br>• Weight: 1.5 kg (3.31 lb)<br>• Rated input voltage range: -48 V DC to -60 V DC<br>• Maximum input voltage range: -38.4 V DC to -72 V DC<br>• Maximum input current: 38 A<br>• Maximum output current: 83.3 A<br>• Maximum output power: 1200 W<br>• Hot swap: Supported | • CloudEngine S6730-H48X6CZ-V2<br>• CloudEngine S6730-H48X6CZ-TV2<br>• CloudEngine S6730-H28X6CZ-V2<br>• CloudEngine S6730-H28X6CZ-TV2 |

The S6730-H-V2 uses pluggable power modules. It can be configured with a single power module or double power modules for 1+1 power redundancy.

# Product Features and Highlights

## Enabling Networks to be More Agile for Services

- Built-in high-speed and flexible processor chips, with their flexible packet processing and traffic control capabilities, CloudEngine S6730-H-V2 series switches are close to services, meeting current and future challenges, and helping customers build scalable networks.
- CloudEngine S6730-H-V2 series switches support fully customizing the forwarding mode, forwarding behavior, and search algorithm of traffic. New services are implemented through microcode programming. Customers do not need to replace new hardware and new services can be rolled out within six months.
- CloudEngine S6730-H-V2 series switches provide open interfaces and user-defined forwarding processes to meet customized service requirements of enterprises. Enterprises can use multi-layer open interfaces to develop new protocols and functions independently. They can also hand over their requirements to vendors and jointly develop them to build an enterprise-dedicated campus network.

## Delivering Abundant Services More Agilely

- With the unified user management function, the CloudEngine S6730-H-V2 series switches authenticates both wired and wireless users, ensuring a consistent user experience no matter whether they are connected to the network through wired or wireless access devices. The unified user management function supports various authentication methods, including 802.1x, MAC address, and is capable of managing users based on user groups, domains, and time ranges. These functions visualize user and service management and boost the transformation from device-centric management to user experience-centric management.
- The CloudEngine S6730-H-V2 series switches provide excellent quality of service(QoS) capabilities and supports queue scheduling and congestion control algorithms. Additionally, it adopts innovative priority queuing and multi-level scheduling mechanisms to implement fine-grained scheduling of data flows, meeting service quality requirements of different user terminals and services.

## Fine-Grained Network Management and Visualized Fault Diagnosis

- In-situ Flow Information Telemetry (IFIT) is an in-band Operations, Administration, and Maintenance (OAM) measurement technology that uses service packets to measure real performance indicators of an IP network, such as the packet loss rate and delay. IFIT can significantly improve the timeliness and effectiveness of network O&M, thereby promoting the development of intelligent O&M.
- Three IFIT modes are available: application-level quality measurement, tunnel-level quality measurement, and native-IP IFIT measurement. Currently, CloudEngine S6730-H-V2 series switches support native-IP IFIT measurement only. By providing in-band measurement capabilities, CloudEngine S6730-H-V2 series switches can monitor indicators such as the delay and packet loss rate of service flows in real time. CloudEngine S6730-H-V2 series switches also offer visualized O&M capabilities to centrally manage and control networks and graphically display performance data. Designed with IFIT capabilities featuring high measurement precision and easy deployment, CloudEngine S6730-H-V2 series switches are ideal for constructing an intelligent O&M system and stand out with future-proof scalability.

## Flexible Ethernet Networking

- In addition to traditional Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), and Multiple Spanning Tree Protocol (MSTP), the CloudEngine S6730-H-V2 series switches support 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 service 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 S6730-H-V2 series switches support Smart Link and Virtual Router Redundancy Protocol (VRRP), which implement backup of uplinks. One CloudEngine S6730-H-V2 series switches can connect to multiple core switches through multiple links, significantly improving reliability of aggregation devices.

## Mature IPv6 Features

- The CloudEngine S6730-H-V2 series swithes are developed based on the mature, stable VRP and supports IPv4/IPv6 dual stacks, IPv6 routing protocols (RIPng, OSPFv3, BGP4+, and IS-IS for IPv6). With these IPv6 features, the CloudEngine S6730-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 S6730-H-V2 series switches support the iStack function that combines multiple switches into a logical switch. Member switches in a stack implement redundancy backup to improve device reliability and use inter-device link aggregation to improve link reliability. iStack provides high network scalability. You can increase a stack's ports, bandwidth, and processing capability by simply adding member switches. iStack also simplifies device configuration and management. After a stack is set up, multiple physical switches can be virtualized into one logical device. You can log in to any member switch in the stack to manage all the member switches in it.

## VXLAN Features

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

## Link Layer Security

- CloudEngine S6730-H28X6CZ-V2/S6730-H28X6CZ-TV2/S6730-H48X6CZ-V2/S6730-H48X6CZ-TV2 models support MACsec. MACsec protects transmitted Ethernet data frames through identity authentication, data encryption, integrity check, and anti-replay protection, reducing the risks of information leakage and malicious network attacks. With MACsec, these switch models are able to address strict information security requirements of customers in industries such as government and finance.

## Intelligent O&M

- This series switches provides telemetry technology to collect device data in real time and send the data to Huawei campus network analyzer(iMaster NCE-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

- Switches support the intelligent upgrade feature. Specifically, switches obtain the version upgrade path and download the newest version for upgrade from the Huawei Online Upgrade Platform (HOUP). The entire upgrade process is highly automated and achieves one-click upgrade. In addition, preloading the version is supported, which greatly shortens the upgrade time and service interruption time.
- The intelligent upgrade feature greatly simplifies device upgrade operations and makes it possible for the customer to upgrade the version independently. This greatly reduces the customer's maintenance costs. In addition, the upgrade policies on the HOUP platform standardize the upgrade operations, which greatly reduces the risk of upgrade failures.

### Cloud-based 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.

### Open Programmability System(OPS)

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

# Product Specifications

The following table describes the functions and features available on the CloudEngine S6730-H-V2 series.

## Functions and Features

| Category | Service Features |
|---|---|
| User management | Unified user management |
| | 802.1X authentication |
| | MAC authentication |
| | Traffic- and duration-based accounting |
| | User authorization based on user groups, domains, and time ranges |
| MAC | Automatic MAC address learning and aging |
| | 384K MAC entries (MAX) |
| | Static, dynamic, and blackhole MAC address entries |
| | Source MAC address filtering |
| | MAC address learning limiting based on ports and VLANs |
| VLAN | 4K VLANs simultaneously |
| | 4K VLANif interface simultaneously |
| | Access mode, Trunk mode and Hybrid mode |
| | Default VLAN |
| | Private VLAN |
| | QinQ and enhanced selective QinQ |
| | VLAN Stacking |
| | Dynamic VLAN assignment based on MAC addresses |
| | LNP, VCMP and GVRP, GARP |
| ARP | ARP Snooping |
| DHCP | DHCPv4 Client, DHCPv4 Relay, DHCPv4 Server, DHCPv4 Snooping |
| | DHCPv6 Client, DHCPv6 Relay, DHCPv6 Server, DHCPv6 Snooping |
| IP routing | IPv4 dynamic routing protocols such as RIP v1/v2, OSPF v1/v2, IS-IS, and BGP |
| | IPv6 dynamic routing protocols such as RIPng, OSPFv3, ISISv6, and BGP4+ |
| | Routing Policy, Policy-Based Routing |

| Category | Service Features |
| --- | --- |
| | VRF |
| | Up to 256K FIBv4 entries (MAX) |
| | Up to 80K FIBv6 entries (MAX) |
| Segment Routing | SRv6 BE (L3 EVPN) |
| | BGP EVPN |
| Multicast | IGMPv1/v2/v3 and IGMP v1/v2/v3 Snooping |
| | PIM-DM, PIM-SM, and PIM-SSM |
| | Fast-leave mechanism |
| | Multicast traffic control |
| | Multicast querier |
| | Multicast protocol packet suppression |
| MPLS | MPLS-LDP |
| | MPLS-L3VPN |
| | MPLS Qos |
| | MPLS TE |
| VPN | MPLS BGP VPN, VPWS, VPLS, GRE |
| VXLAN | Centralized gateway |
| | Distributed gateway |
| | BGP-EVPN |
| | 16K VXLAN Tunnels |
| QoS | Traffic classification based on Layer 2 headers, Layer 3 protocols(IP), Layer 4 protocols(TCP/UDP), and 802.1p priority |
| | ACL Hardware Specifications: 6.5K@320 bits (IPv4 & IPv6) (shared ingress/egress) |
| | Actions such as ACL, Committed Access Rate (CAR), re-marking, and scheduling |
| | Queuing algorithms, such as PQ, DRR, WDRR, and PQ+DRR, PQ+WDRR |
| | Congestion avoidance mechanisms such as WRED and tail drop |
| | Traffic shaping |
| | 8 queues on each interface |
| | Network Slicing |
| | Device buffer: 18MB |
| Native-IP IFIT(iPCA 2.0) | Marks the real service packets to obtain real-time count of dropped packets and packet loss ratio |
| | The statistical period can be modified |
| | Two-way frame delay measurement |
| Ethernet loop protection | STP (IEEE 802.1d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s). |

| Category | Service Features |
| --- | --- |
| | VLAN-based Spanning Tree (VBST) |
| | BPDU protection, root protection, and loop protection |
| | G.8032 Ethernet Ring Protection Switching (ERPS) |
| Reliability | M-LAG |
| | Service interface-based stacking |
| | Maximum number of stacked devices |
| | Stack bandwidth (Bidirectional) |
| | Link Aggregation Control Protocol (LACP) and E-Trunk |
| | Virtual Router Redundancy Protocol (VRRP) and Bidirectional Forwarding Detection (BFD) for VRRP |
| | BFD for BGP/IS-IS/OSPF/static routes |
| | Eth-OAM 802.1ag(CFM) |
| | Smartlink |
| | LLDP, LLDP-MED |
| System management | Console terminal service |
| | Telnet/IPv6 Telnet terminal service |
| | SSH v1.5 |
| | SSH v2.0 |
| | SNMP v1/v2c/v3 |
| | FTP, TFTP, SFTP |
| | sFlow |
| | BootROM upgrade and remote in-service upgrade |
| | Hot patch |
| | User operation logs |
| | Open Programmability System (OPS) |
| | Streaming Telemetry |
| | JSON/XML/GPB encoding |
| | CRUD(create, read, update, and delete) Operations |
| | 1588v2 |
| Security and management | NAC |
| | Port security |
| | RADIUS and HWTACACS authentication for login users |
| | MACsec-256 (IEEE 802.1ae)* |
| | Management by Command Line Interface(CLI) |
| | Command line authority control based on user levels, preventing unauthorized users from |

| Category | Service Features |
| --- | --- |
| | using command configurations |
| | Defense against DoS attacks, Transmission Control Protocol (TCP) SYN Flood attacks, User Datagram Protocol (UDP) Flood attacks, broadcast storms, and heavy traffic attacks |
| | IPv6 RA Guard |
| | CPU hardware queues to implement hierarchical scheduling and protection for protocol packets on the control plane |
| | Remote Network Monitoring (RMON) |
| | Secure boot |
| | Netstream |
| | Port mirroring |
| | Dynamic ARP Inspection |
| | IP Source Guard |
| | Auto MDI and MDI-X |
| Wireless management (integrated WLAN AC): Basic WLAN services | Hot backup for devices with integrated WLAN AC functionality in cluster mode |
| | 2.4G & 5G load balancing |
| | 5G-prior access |
| Wireless management (integrated WLAN AC): AP management | Total number of managed APs: 1K |
| | An IPv4 network between an AP and a WLAN AC |
| | AP blacklist |
| | AP whitelist |
| | Sets the AP access control mode |
| | AP configuration and management |
| | AP LLDP topology awareness |
| Wireless management (integrated WLAN AC): Wireless user management | User roaming within a WLAN AC |
| | AP-based user location |
| | 802.1X authentication |
| | MAC address authentication |
| | Portal authentication |
| Wireless management (integrated WLAN AC): CAPWAP | Direct data forwarding on L2/L3 networks |
| | Tunnel-based data forwarding on L2/L3 networks |
| | CAPWAP tunnel encryption |
| Wireless management (integrated WLAN AC): RF management | 802.11a/b/g/n |
| | 802.11ac wave1/wave2 |
| | 802.11ax |
| | 802.11be |

| Category | Service Features |
|---|---|
| | Sets RF interference monitoring and avoidance |
| | Detects co-channel interference, adjacent interference, and interference from other devices and STAs |
| | Automatically selects channels and power when APs go online |
| | Dynamic power and channel optimization |
| Wireless management (integrated WLAN AC):<br>WLAN QoS | Rate limiting of upstream and downstream traffic on the air interface based on the VAP |
| | Rate limiting of upstream and downstream traffic on the air interface based on users |
| | CAR for WLAN users |

**NOTE**

Only CloudEngine S6730-H28X6CZ-V2/S6730-H28X6CZ-TV2/S6730-H48X6CZ-V2/S6730-H48X6CZ-TV2 models support MACsec.

## Hardware Specifications

The following table lists hardware specifications of the CloudEngine S6730-H-V2 series.

| Item | | CloudEngine S6730-H48X6CZ-V2<br>CloudEngine S6730-H48X6CZ-TV2 | CloudEngine S6730-H28X6CZ-V2<br>CloudEngine S6730-H28X6CZ-TV2 |
|---|---|---|---|
| Physical specifications | Dimensions (H x W x D) | 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.5 in.) | 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.5 in.) |
| | Chassis height | 1 U | 1 U |
| | Chassis weight (full configuration weight, including weight of packaging materials) | 7.48 Kg(16.49 lb) | 7.06 Kg(15.56 lb) |
| Fixed port | GE port | 48 | 28 |
| | 10GE port | 48 | 28 |
| | 25GE port | - | - |
| | 40GE port | 6 | 6 |
| | 100GE port | 6 (*RTU upgrade*) | 6 (*RTU upgrade*) |
| Extended slot | | One extended slot, support 2 x 40GE and 8 x 25/10GE cards | |
| Management port | ETH management port | Supported | Supported |
| | Console port (RJ45) | Supported | Supported |
| | USB port | USB 2.0 | USB 2.0 |
| CPU | Frequency | 1.4 GHz | 1.4 GHz |
| | Cores | 4 | 4 |
| Memory | Memory (RAM) | 4GB | 4GB |
| | Flash | Hardware: 2 GB | Hardware: 2 GB |

| Item | | CloudEngine S6730-H48X6CZ-V2<br>CloudEngine S6730-H48X6CZ-TV2 | CloudEngine S6730-H28X6CZ-V2<br>CloudEngine S6730-H28X6CZ-TV2 |
|---|---|---|---|
| Power supply system | Power supply type | • 600 W AC (pluggable)<br>• 1200 W AC (pluggable)<br>• 1200 W DC (pluggable) | • 600 W AC (pluggable)<br>• 1200 W AC (pluggable)<br>• 1200 W DC (pluggable) |
| | Rated voltage range | • AC input: 100 V AC to 240 V AC, 50/60 Hz<br>• High-Voltage DC input: 240 V DC<br>• DC input: -48 V DC to -60 V DC | • AC input: 100 V AC to 240 V AC, 50/60 Hz<br>• High-Voltage DC input: 240 V DC<br>• DC input: -48 V DC to -60 V DC |
| | Maximum voltage range | • AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz<br>• High-Voltage DC input: 190 V DC to 290 V DC<br>• DC input: -38.4 V DC to -72 V DC | • AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz<br>• High-Voltage DC input: 190 V DC to 290 V DC<br>• DC input: -38.4 V DC to -72 V DC |
| | Maximum input current | • AC 600W：8A<br>• DC 1000W：38A | • AC 600W：8A<br>• DC 1000W：38A |
| | Typical power consumption (30% of traffic load, tested according to ATIS standard) | 234 W | 203 W |
| | Maximum power consumption (100% throughput, full speed of fans) | 327 W | 263 W |
| Heat dissipation system | Heat dissipation mode | Air-cooled heat dissipation and intelligent fan speed adjustment | Air-cooled heat dissipation and intelligent fan speed adjustment |
| | Number of fan modules | 3, Fan modules are pluggable and support redudancy | 3, Fan modules are pluggable and support redudancy |
| | Airflow | Air flows in from the front side and exhausts from the rear panel | Air flows in from the front side and exhausts from the rear panel |
| Environment parameters | Long-term operating temperature | • 0-1800 m: -5°C to 45°C<br>• 1800-5000 m: The operating temperature decreases 1°C for every 220 m increase in altitude. | • 0-1800 m: -5°C to 45°C<br>• 1800-5000 m: The operating temperature decreases 1°C for every 220 m increase in altitude. |
| | Storage temperature | -40°C to +70°C | -40°C to +70°C |
| | Relative humidity | 5% to 95%, noncondensing | 5% to 95%, noncondensing |
| | Operating altitude | 0-5000 m | 0-5000 m |
| | Acoustics (LpA) maximum | 39.72 dB(A) | 39.72 dB(A) |
| | Acoustics (LwA) maximum | 5.34B | 5.34B |
| | Surge protection specification (power port) | • Using AC power modules: ±6 kV in differential mode, ±6 kV in common mode | • Using AC power modules: ±6 kV in differential mode, ±6 kV in common mode |

| Item | | CloudEngine S6730-H48X6CZ-V2<br>CloudEngine S6730-H48X6CZ-TV2 | CloudEngine S6730-H28X6CZ-V2<br>CloudEngine S6730-H28X6CZ-TV2 |
|---|---|---|---|
| | | • Using DC power modules: ±2 kV in differential mode, ±4 kV in common mode | • Using DC power modules: ±2 kV in differential mode, ±4 kV in common mode |
| Reliability | MTBF (year)[2] | 48.99 | 52.24 |
| | MTTR (hour) | 0.5 | 0.5 |
| | Availability | > 0.99999 | > 0.99999 |
| Certification | | • EMC certification<br>• Safety certification<br>• Manufacturing certification<br>**NOTE**<br>For details about certifications, see the section Safety and Regulatory Compliance. | • EMC certification<br>• Safety certification<br>• Manufacturing certification<br>**NOTE**<br>For details about certifications, see the section Safety and Regulatory Compliance. |

| Item | | CloudEngine S6730-H24X6C-V2<br>CloudEngine S6730-H24X6C-TV2 | CloudEngine S6730-H48X6C-V2<br>CloudEngine S6730-H48X6C-TV2 |
|---|---|---|---|
| Physical specifications | Dimensions (H x W x D) | 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.5 in.) | 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.5 in.) |
| | Chassis height | 1 U | 1 U |
| | Chassis weight (full configuration weight, including weight of packaging materials) | 8.9 kg (19.62 lb) | 9.2 kg (20.28 lb) |
| Fixed port | GE port | 24(GE and 10GE auto-sensing) | 48(GE and 10GE auto-sensing) |
| | 10GE port | 24 | 48 |
| | 25GE port | - | - |
| | 40GE port | 6 | 6 |
| | 100GE port | 6 (*RTU upgrade*) | 6 (*RTU upgrade*) |
| Extended slot | | NA | |
| Management port | ETH management port | Supported | Supported |
| | Console port (RJ45) | Supported | Supported |
| | USB port | USB 2.0 | USB 2.0 |
| CPU | Frequency | 1.4 GHz | 1.4 GHz |
| | Cores | 4 | 4 |
| Memory | Memory (RAM) | 4GB | 4GB |
| | Flash | Hardware: 2 GB | Hardware: 2 GB |

| Item | | CloudEngine S6730-H24X6C-V2<br>CloudEngine S6730-H24X6C-TV2 | CloudEngine S6730-H48X6C-V2<br>CloudEngine S6730-H48X6C-TV2 |
|---|---|---|---|
| Power supply system | Power supply type | • 600 W AC (pluggable)<br>• 1000 W DC (pluggable) | • 600 W AC (pluggable)<br>• 1000 W DC (pluggable) |
| | Rated voltage range | • AC input: 100 V AC to 240 V AC, 50/60 Hz<br>• High-Voltage DC input: 240 V DC<br>• DC input: -48 V DC to -60 V DC | • AC input: 100 V AC to 240 V AC, 50/60 Hz<br>• High-Voltage DC input: 240 V DC<br>• DC input: -48 V DC to -60 V DC |
| | Maximum voltage range | • AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz<br>• High-Voltage DC input: 190 V DC to 290 V DC<br>• DC input: -38.4 V DC to -72 V DC | • AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz<br>• High-Voltage DC input: 190 V DC to 290 V DC<br>• DC input: -38.4 V DC to -72 V DC |
| | Maximum input current | • AC 600W：8A<br>• DC 1000W：30A | • AC 600W：8A<br>• DC 1000W：30A |
| | Typical power consumption (30% of traffic load, tested according to ATIS standard) | 149 W | 165 W |
| | Maximum power consumption (100% throughput, full speed of fans) | 254 W | 291 W |
| Heat dissipation system | Heat dissipation mode | Air-cooled heat dissipation and intelligent fan speed adjustment | Air-cooled heat dissipation and intelligent fan speed adjustment |
| | Number of fan modules | 4, Fan modules are pluggable | 4, Fan modules are pluggable |
| | Airflow | Air flows in from the front side and exhausts from the rear panel | Air flows in from the front side and exhausts from the rear panel |
| Environment parameters | Long-term operating temperature | • 0-1800 m: -5°C to 45°C<br>• 1800-5000 m: The operating temperature decreases 1°C for every 220 m increase in altitude. | • 0-1800 m: -5°C to 45°C<br>• 1800-5000 m: The operating temperature decreases 1°C for every 220 m increase in altitude. |
| | Storage temperature | -40°C to +70°C | -40°C to +70°C |
| | Relative humidity | 5% to 95%, noncondensing | 5% to 95%, noncondensing |
| | Operating altitude | 0-5000 m | 0-5000 m |
| | Acoustics (LpA) maximum | 52 dB(A) | 52 dB(A) |
| | Acoustics (LwA) maximum | 6.5B | 6.5B |
| | Surge protection specification (power port) | • Using AC power modules: ±6 kV in differential mode, ±6 kV in common mode<br>• Using DC power modules: ±2 kV in differential mode, ±4 kV in | • Using AC power modules: ±6 kV in differential mode, ±6 kV in common mode<br>• Using DC power modules: ±2 kV in differential mode, ±4 kV in |

| Item | | CloudEngine S6730-H24X6C-V2<br>CloudEngine S6730-H24X6C-TV2 | CloudEngine S6730-H48X6C-V2<br>CloudEngine S6730-H48X6C-TV2 |
|---|---|---|---|
| | | common mode | common mode |
| Reliability | MTBF (year)[2] | 62.27 | 56.87 |
| | MTTR (hour) | 0.5 | 0.5 |
| | Availability | > 0.99999 | > 0.99999 |
| Certification | | • EMC certification<br>• Safety certification<br>• Manufacturing certification<br>**NOTE**<br>For details about certifications, see the section Safety and Regulatory Compliance. | • EMC certification<br>• Safety certification<br>• Manufacturing certification<br>**NOTE**<br>For details about certifications, see the section Safety and Regulatory Compliance. |

**NOTE**

1: The power consumption under different load conditions is calculated according to the ATIS standard. Additionally.

2: The reliability parameter values are calculated based on the typical configuration of the device. The parameter values vary according to the modules configured by the customer.

# Licensing

## Licensing

This series switches 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.

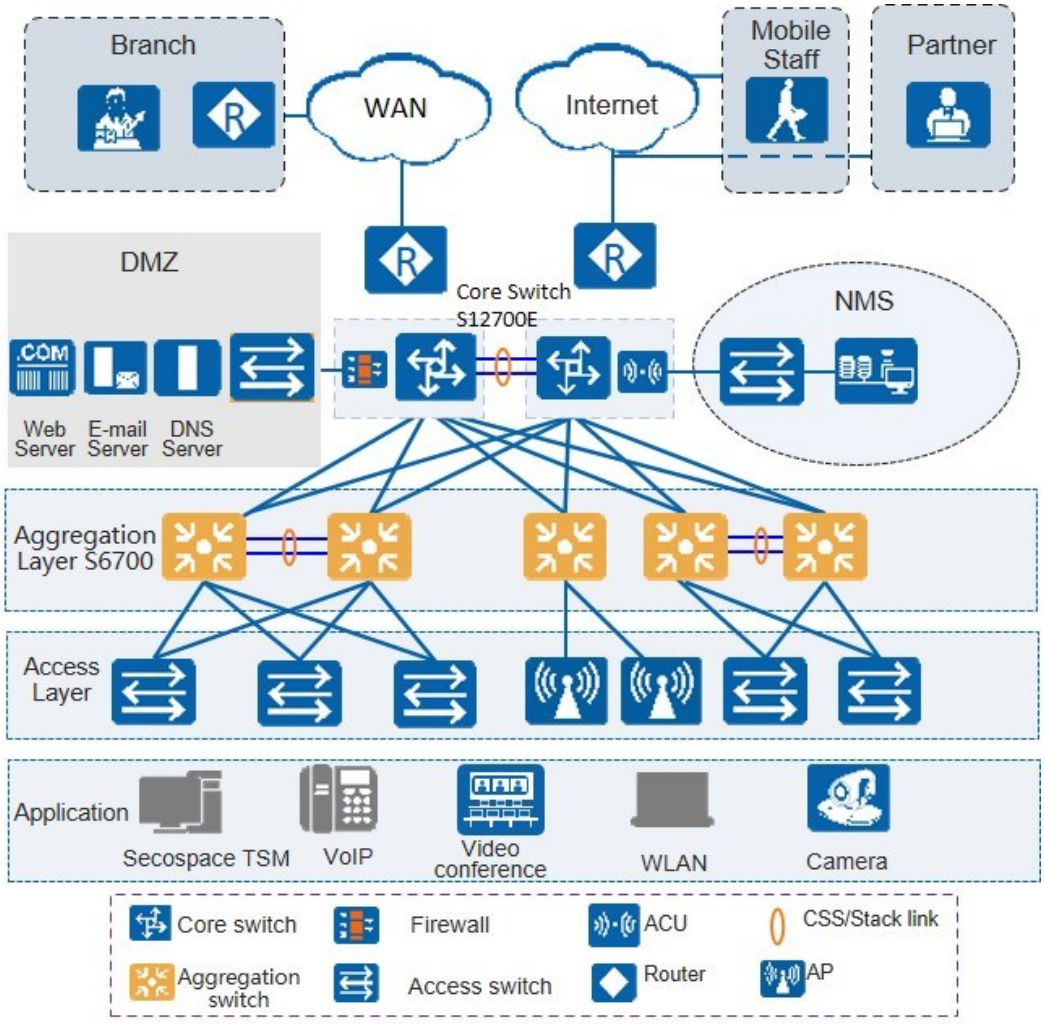
Software Package Features in N1 Mode

| Switch Functions | N1 Basic Software | N1 Foundation Software Package | N1 Advanced Software Package |
|---|---|---|---|
| **Basic network functions:**<br>Layer 2 functions, IPv4, IPv6, and others<br>Note: For details, see the Service Features | √ | √ | √ |
| **Basic network automation based on the iMaster NCE-Campus:**<br>• NE management: Device management, topology management and discovery<br>• User access authentication | × | √ | √ |
| **Advanced network automation and intelligent O&M:**<br>VXLAN, Free Mobility, IPCA, CampusInsight basic functions | × | × | √ |

# Networking and Applications

## Large-scale Enterprise Campus Network

CloudEngine S6730-H-V2 series switches can be deployed at the aggregation layer of a large-scale enterprise campus network, creating a highly reliable, scalable, and manageable enterprise campus network.




# Product Accessories

## Optical Modules and Fibers

### 10GE SFP+ ports support optical modules and cables

- GE optical module
- GE-CWDM optical module
- GE-DWDM optical module
- GE copper module
- 10GE SFP+ optical module (OSXD22N00 not supported)
- 10GE-CWDM optical module
- 10GE-DWDM optical module
- 1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables
- 3 m and 10 m SFP+ AOC cables

- 0.5 m and 1.5 m SFP+ dedicated stack cables (supported by the last 16 SFP+ ports and used only for zero-configuration stacking)

### 25GE SFP28 ports support optical modules and cables

- GE eSFP optical module
- GE SFP optical module
- GE-CWDM optical module
- GE-DWDM optical module
- 10GE SFP+ optical module (OSXD22N00 not supported)
- 10GE-CWDM optical module
- 10GE-DWDM optical module
- 25GE SFP28 optical module
- 1 m, 3 m, 5 m, and 10 m SFP+ high-speed cables
- 3 m and 10 m SFP+ AOC cables
- 1 m, 3 m, 5 m SFP28 high-speed cables
- 3 m, 5 m, 7 m, and 10 m SFP28 AOC cables

### 40GE/100GE QSFP28 ports support optical modules and cables

- QSFP+ optical module
- QSFP28 optical module
- 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables
- 10 m QSFP+ to QSFP+ AOC cable
- 1 m QSFP28 to QSFP28 high-speed copper cable
- 10 m QSFP28 to QSFP28 AOC cable

## Stack Cables

The CloudEngine S6730-H-V2 Series switches support service port stacking. The applicable stack cables are as follows:

| Port Supporting Stacking | Stack Cable | Rate of a Single Port |
| --- | --- | --- |
| 10GE ports on the front panel | • 1 m, 3 m, and 5 m SFP+ passive high-speed cables<br>• 10 m SFP+ active high-speed copper cables<br>• 3 m and 10 m AOC cables<br>• 10GE SFP+ optical module and optical fiber<br>• 0.5 m and 1.5 m SFP+ dedicated stack cable | 10 Gbit/s |
| 40GE/100GE ports on the front panel | • 1 m QSFP28 high-speed copper cables<br>• 10 m QSFP28 AOC cables<br>• QSFP28 optical module and optical fiber | 100Gbit/s |

# Safety and Regulatory Compliance

The following table lists the safety and regulatory compliance of the CloudEngine S6730-H-V2.

| Certification Category | Description |
| --- | --- |
| Safety | • IEC 62368-1 and all country deviations<br>• EN 62368-1 |

| Certification Category | Description |
| --- | --- |
| | • UL 62368-1<br>• CAN/CSA 22.2 No.62368-1<br>• GB 4943 |
| Electromagnetic Compatibility (EMC) | • EMI<br>• FCC CFR47 Part 15 Class A<br>• EN55032 Class A<br>• CISPR 32 Class A<br>• CISPR 35 Class A<br>• EN61000-3-2/IEC-1000-3-2, Power line harmonics<br>• EN61000-4-3/IEC-1000-4-3, Radiated immunity<br>• EN61000-4-2/IEC-1000-4-2, ESD<br>• EN61000-4-4/IEC-1000-4-4, EFT<br>• EN61000-4-5/IEC-1000-4-5, Surge Signal Port<br>• EN61000-4-6/IEC-1000-4-6, Low frequency conducted immunity<br>• EN61000-4-11/IEC-1000-4-11, Voltage dips and sags<br>• EN61000-4-29/IEC61000-4-29, Voltage dips and sags<br>• EMC directive 2014/30/EU<br>• VCCI V-3 Class A<br>• ICES-003 Class A<br>• AS/NZS CISPR32 Class A<br>• GB9254 Class A |

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

# MIB and Standards Compliance

## Supported MIBs

| Category | MIB |
| --- | --- |
| Public MIB | • BRIDGE-MIB<br>• DISMAN-NSLOOKUP-MIB<br>• DISMAN-PING-MIB<br>• DISMAN-TRACEROUTE-MIB |

| Category | MIB |
| --- | --- |
| | • ENTITY-MIB<br>• EtherLike-MIB<br>• IF-MIB<br>• IP-FORWARD-MIB<br>• IPv6-MIB<br>• LAG-MIB<br>• LLDP-EXT-DOT1-MIB<br>• LLDP-EXT-DOT3-MIB<br>• LLDP-MIB<br>• NOTIFICATION-LOG-MIB<br>• NQA-MIB<br>• OSPF-TRAP-MIB<br>• P-BRIDGE-MIB<br>• Q-BRIDGE-MIB<br>• RFC1213-MIB<br>• RIPv2-MIB<br>• RMON2-MIB<br>• RMON-MIB<br>• SAVI-MIB<br>• SNMP-FRAMEWORK-MIB<br>• SNMP-MPD-MIB<br>• SNMP-NOTIFICATION-MIB<br>• SNMP-TARGET-MIB<br>• SNMP-USER-BASED-SM-MIB<br>• SNMPv2-MIB<br>• SNMPv3-MIB<br>• TCP-MIB<br>• UDP-MIB |
| Huawei-proprietary MIB | • HUAWEI-AAA-MIB<br>• HUAWEI-ACL-MIB<br>• HUAWEI-ALARM-MIB<br>• HUAWEI-ALARM-RELIABILITY-MIB<br>• HUAWEI-BASE-TRAP-MIB<br>• HUAWEI-BRAS-RADIUS-MIB<br>• HUAWEI-BRAS-SRVCFG-EAP-MIB<br>• HUAWEI-BRAS-SRVCFG-STATICUSER-MIB<br>• HUAWEI-CBQOS-MIB<br>• HUAWEI-CDP-COMPLIANCE-MIB<br>• HUAWEI-CONFIG-MAN-MIB<br>• HUAWEI-CPU-MIB<br>• HUAWEI-DAD-TRAP-MIB<br>• HUAWEI-DC-MIB<br>• HUAWEI-DATASYNC-MIB<br>• HUAWEI-DEVICE-MIB |

| Category | MIB |
| --- | --- |
| | • HUAWEI-DHCPR-MIB<br>• HUAWEI-DHCPS-MIB<br>• HUAWEI-DHCP-SNOOPING-MIB<br>• HUAWEI-DIE-MIB<br>• HUAWEI-DNS-MIB<br>• HUAWEI-DLDP-MIB<br>• HUAWEI-ELMI-MIB<br>• HUAWEI-ERPS-MIB<br>• HUAWEI-ERRORDOWN-MIB<br>• HUAWEI-ENERGYMNGT-MIB<br>• HUAWEI-EASY-OPERATION-MIB<br>• HUAWEI-ENTITY-EXTENT-MIB<br>• HUAWEI-ENTITY-TRAP-MIB<br>• HUAWEI-ETHARP-MIB<br>• HUAWEI-ETHOAM-MIB<br>• HUAWEI-FLASH-MAN-MIB<br>• HUAWEI-FWD-RES-TRAP-MIB<br>• HUAWEI-GARP-APP-MIB<br>• HUAWEI-GTSM-MIB<br>• HUAWEI-HGMP-MIB<br>• HUAWEI-HWTACACS-MIB<br>• HUAWEI-IF-EXT-MIB<br>• HUAWEI-INFOCENTER-MIB<br>• HUAWEI-IPPOOL-MIB<br>• HUAWEI-IPV6-MIB<br>• HUAWEI-ISOLATE-MIB<br>• HUAWEI-L2IF-MIB<br>• HUAWEI-L2MAM-MIB<br>• HUAWEI-L2VLAN-MIB<br>• HUAWEI_LDT-MIB<br>• HUAWEI-LLDP-MIB<br>• HUAWEI-MAC-AUTHEN-MIB<br>• HUAWEI-MEMORY-MIB<br>• HUAWEI-MFF-MIB<br>• HUAWEI-MFLP-MIB<br>• HUAWEI-MSTP-MIB<br>• HUAWEI-MULTICAST-MIB<br>• HUAWEI-NAP-MIB<br>• HUAWEI-NTPV3-MIB<br>• HUAWEI-PERFORMANCE-MIB<br>• HUAWEI-PORT-MIB<br>• HUAWEI-PORTAL-MIB<br>• HUAWEI-QINQ-MIB<br>• HUAWEI-RIPv2-EXT-MIB<br>• HUAWEI-RM-EXT-MIB |

| Category | MIB |
| --- | --- |
| | • HUAWEI-RRPP-MIB<br>• HUAWEI-SECURITY-MIB<br>• HUAWEI-SEP-MIB<br>• HUAWEI-SNMP-EXT-MIB<br>• HUAWEI-SSH-MIB<br>• HUAWEI-STACK-MIB<br>• HUAWEI-SWITCH-L2MAM-EXT-MIB<br>• HUAWEI-SWITCH-SRV-TRAP-MIB<br>• HUAWEI-SYS-MAN-MIB<br>• HUAWEI-TCP-MIB<br>• HUAWEI-TFTPC-MIB<br>• HUAWEI-TRNG-MIB<br>• HUAWEI-XQOS-MIB |

NOTE

For more information about MIBs supported by the CloudEngine S6730-H-V2 series, visit:
https://support.huawei.com/enterprise/en/switches/s6700-pid-6691593?category=reference-guides

## Standards Compliance

The following table lists the standards that the CloudEngine S6730-H-V2 series complies with.

| Standard Organization | Standard or Protocol |
| --- | --- |
| IETF | • RFC 768 User Datagram Protocol (UDP)<br>• RFC 792 Internet Control Message Protocol (ICMP)<br>• RFC 793 Transmission Control Protocol (TCP)<br>• RFC 826 Ethernet Address Resolution Protocol (ARP)<br>• RFC 854 Telnet Protocol Specification<br>• RFC 951 Bootstrap Protocol (BOOTP)<br>• RFC 959 File Transfer Protocol (FTP)<br>• RFC 1058 Routing Information Protocol (RIP)<br>• RFC 1112 Host extensions for IP multicasting<br>• RFC 1157 A Simple Network Management Protocol (SNMP)<br>• RFC 1256 ICMP Router Discovery<br>• RFC 1305 Network Time Protocol Version 3 (NTP)<br>• RFC 5905 Network Time Protocol Version 4 (NTP)<br>• RFC 1349 Internet Protocol (IP)<br>• RFC 1493 Definitions of Managed Objects for Bridges<br>• RFC 1542 Clarifications and Extensions for the Bootstrap Protocol<br>• RFC 1643 Ethernet Interface MIB<br>• RFC 1757 Remote Network Monitoring (RMON)<br>• RFC 1901 Introduction to Community-based SNMPv2<br>• RFC 1902-1907 SNMP v2<br>• RFC 2574 SNMP v3<br>• RFC 1981 Path MTU Discovery for IP version 6<br>• RFC 2131 Dynamic Host Configuration Protocol (DHCP) |

| Standard Organization | Standard or Protocol |
| --- | --- |
| | • RFC 2328 OSPF Version 2<br>• RFC 2453 RIP Version 2<br>• RFC 2460 Internet Protocol, Version 6 Specification (IPv6)<br>• RFC 2461 Neighbor Discovery for IP Version 6 (IPv6)<br>• RFC 2462 IPv6 Stateless Address Auto configuration<br>• RFC 2463 Internet Control Message Protocol for IPv6 (ICMPv6)<br>• RFC 2474 Differentiated Services Field (DS Field)<br>• RFC 2740 OSPF for IPv6 (OSPFv3)<br>• RFC 2863 The Interfaces Group MIB<br>• RFC 2597 Assured Forwarding PHB Group<br>• RFC 2598 An Expedited Forwarding PHB<br>• RFC 2571 SNMP Management Frameworks<br>• RFC 2865 Remote Authentication Dial In User Service (RADIUS)<br>• RFC 3046 DHCP Option82/Relay<br>• RFC 3376 Internet Group Management Protocol, Version 3 (IGMPv3)<br>• RFC 3513 IP Version 6 Addressing Architecture<br>• RFC 3579 RADIUS Support For EAP<br>• RFC 4271 A Border Gateway Protocol 4 (BGP-4)<br>• RFC 4760 Multiprotocol Extensions for BGP-4<br>• draft-grant-tacacs-02 TACACS+<br>• RFC 6241 Network Configuration Protocol (NETCONF)<br>• RFC 6020 YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF)<br>• RFC 6242 - Using the NETCONF Protocol over Secure Shell (SSH)<br>• RFC 6244 - An Architecture for Network Management Using NETCONF and YANG |
| IEEE | • IEEE 802.1D Media Access Control (MAC) Bridges<br>• IEEE 802.1p Traffic Class Expediting and Dynamic Multicast Filtering<br>• IEEE 802.1Q Virtual Bridged Local Area Networks<br>• IEEE 802.1ad Provider Bridges<br>• IEEE 802.2 Logical Link Control<br>• IEEE Std 802.3 CSMA/CD<br>• IEEE Std 802.3ab 1000BASE-T specification<br>• IEEE Std 802.3ad Aggregation of Multiple Link Segments<br>• IEEE Std 802.3ae 10GE WEN/LAN Standard<br>• IEEE Std 802.3x Full Duplex and flow control<br>• IEEE Std 802.3z Gigabit Ethernet Standard<br>• IEEE Std 802.3u Fast Ethernet Standard<br>• IEEE 802.1ax/IEEE802.3ad Link Aggregation<br>• IEEE 802.3ah Ethernet in the First Mile.<br>• IEEE 802.1ag Connectivity Fault Management<br>• IEEE 802.1ab Link Layer Discovery Protocol<br>• IEEE 802.1D Spanning Tree Protocol<br>• IEEE 802.1w Rapid Spanning Tree Protocol<br>• IEEE 802.1s Multiple Spanning Tree Protocol |

| Standard Organization | Standard or Protocol |
|---|---|
| | • IEEE 802.1x Port based network access control protocol<br>• IEEE 802.3ba 40Gbit/s and 100Gbit/s Ethernet Standard<br>• IEEE 802.3ac VLAN tagging<br>• IEEE 802.3ax Link Aggregation Task Force |
| ITU | • ITU SG13 Y.17ethoam<br>• ITU SG13 QoS control Ethernet-Based IP Access<br>• 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<br>• MEF 9 Abstract Test Suite for Ethernet Services at the UNI<br>• MEF 10.2 Ethernet Services Attributes Phase 2<br>• MEF 11 UNI Requirements and Framework<br>• MEF 13 UNI Type 1 Implementation Agreement<br>• MEF 15 Requirements for Management of Metro Ethernet Phase 1 Network Elements<br>• MEF 17 Service OAM Framework and Requirements<br>• MEF 20 UNI Type 2 Implementation Agreement<br>• MEF 23 Class of Service Phase 1 Implementation Agreement<br>• Xmodem 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

The following table lists ordering information of the CloudEngine S6730-H-V2 series.

| Model | Product Description |
|---|---|
| CloudEngine S6730-H48X6CZ-V2 | CloudEngine S6730-H48X6C-V2 bundle (48*10GE SFP+ ports, 6*100GE QSFP28 ports, with license, 1*expansion slot, without power module) |
| CloudEngine S6730-H48X6CZ-V2 | CloudEngine S6730-H48X6C-V2 (48*10GE SFP+ ports, 6*40GE QSFP ports, optional license for upgrade to 6*100GE QSFP28 ports, 1*expansion slot, without power module) |
| CloudEngine S6730-H48X6CZ-TV2 | CloudEngine S6730-H48X6C-TV2 bundle (48*10GE SFP+ ports, 6*100GE QSFP28 ports, with license, 1*expansion slot, HTM, without power module) |
| CloudEngine S6730-H48X6CZ-TV2 | CloudEngine S6730-H48X6C-TV2 (48*10GE SFP+ ports, 6*40GE QSFP ports, optional license for upgrade to 6*100GE QSFP28 ports, 1*expansion slot, HTM, without power module) |
| CloudEngine S6730-H28X6CZ-V2 | CloudEngine S6730-H28X6C-V2 bundle (28*10GE SFP+ ports, 6*100GE QSFP28 ports, with license, 1*expansion slot, without power module) |
| CloudEngine S6730-H28X6CZ-V2 | CloudEngine S6730-H28X6C-V2 (28*10GE SFP+ ports, 6*40GE QSFP28 ports, optional license for upgrade to 6*100GE QSFP28 ports, 1*expansion slot, without power module) |
| CloudEngine S6730-H28X6CZ-TV2 | CloudEngine S6730-H28X6C-TV2 bundle (28*10GE SFP+ ports, 6*100GE QSFP28 ports, with license, 1*expansion slot, HTM, without power module) |
| CloudEngine S6730- | CloudEngine S6730-H28X6C-TV2 (28*10GE SFP+ ports, 6*40GE QSFP ports, optional license |

| Model | Product Description |
|---|---|
| H28X6CZ-TV2 | for upgrade to 6*100GE QSFP28 ports, 1*expansion slot, HTM, without power module) |
| CloudEngine S6730-H48X6C-V2 | CloudEngine S6730-H48X6C-V2 (48*10GE SFP+ ports, 6*40GE QSFP28 ports, optional license for upgrade to 6*100GE QSFP28, without power module) |
| CloudEngine S6730-H24X6C-V2 | CloudEngine S6730-H24X6C -V2(24*10GE SFP+ ports, 6*40GE QSFP28 ports, optional license for upgrade to 6*100GE QSFP28, without power module) |
| CloudEngine S6730-H48X6C-TV2 | CloudEngine S6730-H48X6C-TV2 (48*10GE SFP+ ports, 6*40GE QSFP28 ports, optional license for upgrade to 6*100GE QSFP28,HTM,without power module) |
| CloudEngine S6730-H24X6C-TV2 | CloudEngine S6730-H24X6C-TV2(24*10GE SFP+ ports, 6*40GE QSFP28 ports, optional license for upgrade to 6*100GE QSFP28,HTM,without power module) |
| PAC600S12-CB | 600W AC power module (for S6730-H48X6C-V2/TV2 & S6730-H24X6C-V2/TV2 series models) |
| PAC600S12-EB | 600W AC power module (for S6730-H48X6C-V2/TV2 & S6730-H24X6C-V2/TV2 series models) |
| PAC600S12-DB | 600W AC power module (for S6730-H48X6C-V2/TV2 & S6730-H24X6C-V2/TV2 series models) |
| PDC1000S12-DB | 1000W DC power module (for S6730-H48X6C-V2/TV2 & S6730-H24X6C-V2/TV2 series models) |
| PAC600S12-PB | 600W AC power module (for S6730-H48X6CZ-V2/TV2 & S6730-H28X6CZ-V2/TV2 series models) |
| PAC1K2S12-PB | 1200W AC power module (for S6730-H48X6CZ-V2/TV2 & S6730-H28X6CZ-V2/TV2 series models) |
| PDC1K2S12-CE | 1200W DC power module (for S6730-H48X6CZ-V2/TV2 & S6730-H28X6CZ-V2/TV2 series models) |
| FAN-031A-B | Fan Module |

| License | Product Description |
|---|---|
| L-100GEUPG-S67H | S67XX-H Series,40GE to 100GE Electronic RTU License,Per Device |
| L-MLIC-S67H | S67XX-H Series Basic SW,Per Device |
| N1-S67H-M-Lic | S67XX-H Series Basic SW,Per Device |
| N1-S67H-M-SnS1Y | S67XX-H Series Basic SW,SnS,Per Device,1Year |
| N1-S67H-F-Lic | N1-CloudCampus,Foundation,S67XX-H Series,Per Device |
| N1-S67H-F-SnS | N1-CloudCampus,Foundation,S67XX-H Series,SnS,Per Device |
| N1-S67H-A-Lic | N1-CloudCampus,Advanced,S67XX-H Series,Per Device |
| N1-S67H-A-SnS | N1-CloudCampus,Advanced,S67XX-H Series,SnS,Per Device |
| N1-S67H-FToA-Lic | N1-Upgrade-Foundation to Advanced,S67XX-H,Per Device |
| N1-S67H-FToA-SnS | N1-Upgrade-Foundation to Advanced,S67XX-H,SnS,Per Device |

# More Information

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

- Global service hotline: http://e.huawei.com/en/service-hotline
- Logging in to the Huawei Enterprise technical support website: http://support.huawei.com/enterprise/

- Sending an email to the customer service mailbox: support_e@huawei. com

**Copyright © Huawei Technologies Co., Ltd. 2025. All rights reserved.**

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

**Trademarks and Permissions**

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

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

**Notice**

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

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

**Huawei Technologies Co., Ltd.**

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

Website:e.huawei.com