

CloudEngine S1730S Series Switches

Huawei CloudEngine S1730 series switches are next-generation energy-saving Ethernet access switches designed for small- and medium-sized enterprises, Internet cafes, hotels, and schools.

Product Overview

Huawei CloudEngine S1730 series switches are easy to install and maintain and come with a wide range of service features, helping customers build secure, reliable, and high-performance networks.

There are two types of CloudEngine S1730S series switches: web-managed switches and fully-managed switches.

Models and Appearances

CloudEngine S1730S-H fully-managed switches

Appearance	Description		
CloudEngine S1730S-H24T4S-A	 24 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply Forwarding performance: 41.66 Mpps Switching capacity: 168 Gbps 		
CloudEngine S1730S-H48T4S-A	 48 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply Forwarding performance: 77.38 Mpps Switching capacity: 216 Gbps 		

CloudEngine S1730S-S web-managed switches

Appearance	Description		
CloudEngine S1730S-S8T4S-A1	 8 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply Forwarding performance: 17.86 Mpps Switching capacity: 168 Gbps 		
CloudEngine S1730S-S8P4S-A1	 8 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply PoE+ 		

Appearance	Description
	Forwarding performance: 17.86 MppsSwitching capacity: 168 Gbps
CloudEngine S1730S-S24T4S-A1	 24 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply Forwarding performance: 41.66 Mpps Switching capacity: 168 Gbps
CloudEngine S1730S-S24P4S-A1	 24 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply PoE+ Forwarding performance: 41.66 Mpps Switching capacity: 168 Gbps
CloudEngine S1730S-S24T4X-A1	 24 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports AC power supply Forwarding performance: 95.23 Mpps Switching capacity: 168 Gbps
CloudEngine S1730S-S48T4S-A1	 48 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply Forwarding performance: 77.38 Mpps Switching capacity: 216 Gbps
CloudEngine S1730S-S48P4S-A1	 48 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply PoE+ Forwarding performance: 77.38 Mpps Switching capacity: 216 Gbps
CloudEngine S1730S-S48T4X-A1	 48 x 10/100/1000Base-T ports, 4 x 10 GE SFP+ ports AC power supply Forwarding performance: 130.94 Mpps Switching capacity: 216 Gbps
CloudEngine S1730S-S24T4S-A	 24 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply Forwarding performance: 41.66 Mpps Switching capacity: 168 Gbps
CloudEngine S1730S-S24P4S-A	 24 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply PoE+ Forwarding performance: 41.66 Mpps Switching capacity: 168 Gbps
CloudEngine S1730S-S24T4X-A	 24 x 10/100/1000Base-T ports, 4 x 10GE SFP+ ports AC power supply Forwarding performance: 95.23 Mpps Switching capacity: 168 Gbps

Appearance	Description		
CloudEngine S1730S-S48T4S-A	 48 x 10/100/1000Base-T ports, 4 x GE SFP ports AC power supply Forwarding performance: 77.38 Mpps Switching capacity: 216 Gbps 		
CloudEngine S1730S-S48P4S-A	 48 x 10/100/1000Base-T ports, 4 x GE SFP ports Pluggable AC power module PoE+ Forwarding performance: 77.38 Mpps Switching capacity: 216 Gbps 		

Features and Highlights

Innovative Energy-saving Design

- CloudEngine S1730S series switches can adjust the output power based on the cable length. It can also set any ports that are not transmitting traffic to sleep mode.
- The models that use a fan-free design reduce power consumption and noise.

Non-blocking and High-speed Forwarding

- All ports on CloudEngine S1730S series switches provide Layer 2 line-rate forwarding capabilities to ensure non-blocking packet forwarding. CloudEngine S1730S models provide both optical and electrical GE uplink ports, which facilitate user access and are cost-effective.
- The CloudEngine S1730S-S and S1730S-H support up to 8K and 16K MAC address entries, respectively, facilitating network expansion and new service provisioning.
- CloudEngine S1730S series switches support flow control. If congestion occurs on the local device, the local device sends a message to the remote device, instructing the remote device to temperately stop sending packets.

Perpetual PoE

• When a PoE switch is restarted after its software version is upgraded, the power supply to PDs is not interrupted. This capability ensures that the connected PDs are not powered off during the switch restart.

Convenient Management and Maintenance

- Web-managed S1730S-S models come with a web network management system (NMS), simplifying device configuration and management.
- Fully-managed S1730S-H models allow for the use of a Simple Network Management Protocol (SNMP) NMS for centralized configuration and management.

Intelligent O&M

• Web-managed and fully-managed S1730S models support a variety of intelligent O&M features for audio and video services, including the Enhanced Media Delivery Index (eMDI). With eMDI, the switch can act as a monitored node to periodically collect statistics and report audio and video service indicators to CampusInsight. In this way, CampusInsight can quickly demarcate audio and video service quality faults based on the results of multiple monitored nodes.

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.

Powerful Security Performance

 CloudEngine S1730S series switches provide a wide range of security features, including 802.1X, RADIUS, Portal, and NAC. These switches also support packet filtering based on MAC addresses or interfaces in order to defend against hackers and virus attacks.

High Networking and Bandwidth Extensibility

• CloudEngine S1730S series switches provide LACP, STP, RSTP, and MSTP functions to implement link aggregation and backup.

Product Specifications

CloudEngine S1730S-H fully-managed switches

Item	CloudEngine S1730S-H24T4S-A	CloudEngine S1730S-H48T4S-A
Fixed port	24 x 10/100/1000Base-T Ethernet ports, 4 x GE SFP ports	48 x 10/100/1000Base-T Ethernet ports, 4 x GE SFP ports
Dimensions (H x W x D)	43.6 mm x 442 mm x 220 mm (1.72 in. x 17.40 in. x 8.66 in.)	43.6 mm x 442 mm x 220 mm (1.72 in. x 17.40 in. x 8.66 in.)
Chassis height	1U	1U
Power supply	Built-in AC power	Built-in AC power
Rated voltage range	 AC input: 100 V AC to 240 V AC, 50/60 Hz High-voltage DC input: 240 V DC 	 AC input: 100 V AC to 240 V AC, 50/60 Hz High-voltage DC input: 240 V DC
Maximum voltage range	 AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz High-voltage DC input: 190 V DC to 290 V DC 	 AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz High-voltage DC input: 190 V DC to 290 V DC
Maximum power consumption	34W	53W
Operating temperature	5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.) NOTE When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5906 ft.) NOTE When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature	-40°C to +70°C (-40°F to +158°F)	
Relative humidity	5% to 95% (non-condensing)	
Surge protection specification (service port)	±7 kV in common mode	

Item	CloudEngine S1730S-H24T4S-A	CloudEngine S1730S-H48T4S-A
Surge protection specification (power port)	 Differential mode: ± 6 kV Common mode: ± 6 kV 	
Heat dissipation	Natural heat dissipation	Air-cooled heat dissipation and intelligent speed adjustment

CloudEngine S1730S-S web-managed switches

Item	CloudEngine S1730S-S8T4S-A1	CloudEngine S1730S-S8P4S-A1	CloudEngine S1730S-S24T4S-A1	CloudEngine S1730S-S24P4S-A1
Fixed port	8 x 10/100/1000Base-T Ethernet ports, 4 x GE SFP ports	8 x 10/100/1000Base-T Ethernet ports, 4 x GE SFP ports	24 x 10/100/1000Base-T Ethernet ports, 4 x GE SFP ports	24 x 10/100/1000Base-T Ethernet ports, 4 x GE SFP ports
Dimensions (H x W x D)	43.6 mm x 250 mm x 180 mm (1.72 in. x 9.84 in. x 7.1 in.)	43.6 mm x 300 mm x 220 mm (1.72 in. x 11.8 in. x 8.7 in.)	43.6 mm x 442 mm x 220 mm (1.72 in. x 17.4 in. x 8.7 in.)	43.6 mm x 442 mm x 220 mm (1.72 in. x 17.4 in. x 8.7 in.)
Chassis height	1U	1U	1U	1U
Power supply	Built-in AC power	Built-in AC power	Built-in AC power	Built-in AC power
Rated voltage range	AC input:100 V AC to 240 V AC, 50/60 Hz	AC input:100 V AC to 240 V AC, 50/60 Hz	AC input: 100 V AC to 240 V AC, 50/60 Hz	 AC input: 100 V AC to 240 V AC, 50/60 Hz High-voltage DC input: 240 V DC
Maximum voltage range	AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz	 AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz 	AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz	 AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz High-Voltage DC input: 190 V DC to 290 V DC
Maximum power consumption	29.7W	Without PoE: 38.6 W100% PoE loads: 162.6 W (PoE: 124 W)	47.6W	Without PoE: 53.2 W100% PoE loads: 433.2 W (PoE: 380 W)
Operating temperature	-5°C to +50°C (23°F to 122°F) (0 m to 1800 m, with non-industrial optical modules) -5°C to +55°C (23°F to 131°F) (0 m to 1800 m, industrial optical modules with a distance of less than or equal to 10 km) NOTE When the altitude is 1800-5000 m (5906-16404 ft.), the highest	-5°C to +50°C (23°F to 122°F) (0 m to 1800 m, with non-industrial optical modules) -5°C to +55°C (23°F to 131°F) (0 m to 1800 m, industrial optical modules with a distance of less than or equal to 10 km) NOTE When the altitude is 1800-5000 m (5906-16404 ft.), the highest	-5°C to +50°C (23°F to 122°F) (0 m to 1800 m, with non-industrial optical modules) -5°C to +55°C (23°F to 131°F) (0 m to 1800 m, industrial optical modules with a distance of less than or equal to 10 km) NOTE When the altitude is 1800-5000 m (5906-16404 ft.), the highest	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5906 ft.) NOTE When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).

Item	CloudEngine S1730S-S8T4S-A1	CloudEngine S1730S-S8P4S-A1	CloudEngine S1730S-S24T4S-A1	CloudEngine S1730S-S24P4S-A1	
	operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.)	operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).	operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).		
Storage temperature	-40°C to +70°C (-40°F to -	+158°F)			
Relative humidity	5% to 95% (non-condensing)				
Surge protection specification (service port)	±7 kV in common mode	±7 kV in common mode	±7 kV in common mode	±7 kV in common mode	
Surge protection	Differential mode: ± 6 kV	Differential mode: ± 6 kV	Differential mode: ± 6 kV	Differential mode: ± 6 kV	
specification (power port)	Common mode: ± 6 kV	 Common mode: ± 6 kV 	Common mode: ± 6 kV	Common mode: ± 6 kV	
Heat dissipation	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment	

Item	CloudEngine S1730S-S24T4X-A1	CloudEngine S1730S-S48T4S-A1	CloudEngine S1730S-S48P4S-A1	CloudEngine S1730S-S48T4X-A1
Fixed port	24 x 10/100/1000Base-T Ethernet ports, 4 x 10 GE SFP+ ports	48 x 10/100/1000Base-T Ethernet ports, 4 x GE SFP ports	48 x 10/100/1000Base-T Ethernet ports, 4 x GE SFP ports	48 x 10/100/1000Base-T Ethernet ports, 4 x 10 GE SFP+ ports
Dimensions (H x W x D)	43.6 mm x 442 mm x 220 mm (1.72 in. x 17.4 in. x 8.7 in.)	43.6 mm x 442 mm x 220 mm (1.72 in. x 17.4 in. x 8.7 in.)	43.6 mm x 442 mm x 220 mm (1.72 in. x 17.4 in. x 8.7 in.)	43.6 mm x 442 mm x 220 mm (1.72 in. x 17.4 in. x 8.7 in.)
Chassis height	1U	1U	1U	1U
Power supply	Built-in AC power	Built-in AC power	Built-in AC power	Built-in AC power
Rated voltage range	AC input: 100 V AC to 240 V AC, 50/60 Hz	 AC input: 100 V AC to 240 V AC, 50/60 Hz 	 AC input: 100 V AC to 240 V AC, 50/60 Hz High-voltage DC input: 240 V DC 	AC input: 100 V AC to 240 V AC, 50/60 Hz
Maximum voltage range	AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz	 AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz 	 AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz High-Voltage DC input: 190 V DC to 290 V DC 	AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz
Maximum	47.6W	50.4W	Without PoE: 76.1 W	50.4W

Item	CloudEngine S1730S-S24T4X-A1	CloudEngine S1730S-S48T4S-A1	CloudEngine S1730S-S48P4S-A1	CloudEngine S1730S-S48T4X-A1
power consumption			• 100% PoE loads: 456.1 W (PoE: 380 W)	
Operating temperature	-5°C to +50°C (23°F to 122°F) (0 m to 1800 m, with non-industrial optical modules) -5°C to +55°C (23°F to 131°F) (0 m to 1800 m, industrial optical modules with a distance of less than or equal to 10 km) NOTE When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5906 ft.) NOTE When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5906 ft.) NOTE When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5906 ft.) NOTE When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature	-40°C to +70°C (-40°F to -	+158°F)		
Relative humidity	5% to 95% (non-condensi	ng)		
Surge protection specification (service port)	±7 kV in common mode	±7 kV in common mode	±7 kV in common mode	±7 kV in common mode
Surge protection specification (power port)	 Differential mode: ± 6 kV Common mode: ± 6 kV 	 Differential mode: ± 6 kV Common mode: ± 6 kV 	 Differential mode: ± 6 kV Common mode: ± 6 kV 	 Differential mode: ± 6 kV Common mode: ± 6 kV
Heat dissipation	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment	Air-cooled heat dissipation and intelligent speed adjustment

Item	CloudEngine	CloudEngine	CloudEngine	CloudEngine	CloudEngine
	S1730S-	S1730S-S24P4S-	S1730S-	S1730S-	S1730S-
	S24T4S-A	A	S48T4S-A	S48P4S-A	S24T4X-A
Fixed port	24 x 10/100/1000Base- T Ethernet ports, 4 x GE SFP ports	24 x 10/100/1000Base-T Ethernet ports, 4 x GE SFP ports	48 x 10/100/1000Base- T Ethernet ports, 4 x GE SFP ports	48 x 10/100/1000Base- T Ethernet ports, 4 x GE SFP ports	24 x 10/100/1000Base- T Ethernet ports, 4 x 10GE SFP+ ports
Dimensions	43.6 mm x 442 mm	43.6 mm x 442 mm	43.6 mm x 442	43.6 mm x 442 mm	43.6 mm x 442 mm
(H x W x D)	x 220 mm	x 220 mm	mm x 220 mm	x 420 mm	x 420 mm

Item	CloudEngine S1730S- S24T4S-A	CloudEngine S1730S-S24P4S- A	CloudEngine S1730S- S48T4S-A	CloudEngine S1730S- S48P4S-A	CloudEngine S1730S- S24T4X-A
	(1.72 in. x 17.40 in. x 8.66 in.)	(1.72 in. x 17.40 in. x 8.66 in.)	(1.72 in. x 17.40 in. x 8.66 in.)	(1.72 in. x 17.40 in. x 16.54 in.)	(1.72 in. x 17.40 in. x 16.54 in.)
Chassis height	1U	1U	1U	1U	1U
Power supply	Built-in AC power	Built-in AC power	Built-in AC power	1000 W AC PoE	Built-in AC power
Rated voltage range	 AC input: 100 V AC to 240 V AC, 50/60 Hz High-voltage DC input: 240 V DC 	 AC input: 100 V AC to 240 V AC, 50/60 Hz High-voltage DC input: 240 V DC 	 AC input: 100 V AC to 240 V AC, 50/60 Hz High-voltage DC input: 240 V DC 	 AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz High-voltage DC input: 240 V DC 	 AC input: 100 V AC to 240 V AC, 50/60 Hz High-voltage DC input: 240 V DC
Maximum voltage range	 AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz High-voltage DC input: 190 V DC to 290 V DC 	 AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz High-voltage DC input: 190 V DC to 290 V DC 	 AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz High-voltage DC input: 190 V DC to 290 V DC 	 AC input: 90 V AC to 290 V AC, 45 Hz to 65 Hz High-voltage DC input: 190 V DC to 290 V DC 	 AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz High-voltage DC input: 190 V DC to 290 V DC
Maximum power consumption	34W	 Without PoE: 53 W 100% PoE loads: 451 W (PoE: 380 W) 	53W	 Without PoE: 75 W 100% PoE loads: 911 W (PoE: 874 W) 	43W
Operating temperature	5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.) NOTE When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).	-5°C to +50°C (23°F to 122°F) at an altitude of 0- 1800 m (0-5906 ft.) NOTE When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5906 ft.) NOTE When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5906 ft.) NOTE When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).	-5°C to +50°C (23°F to 122°F) at an altitude of 0- 1800 m (0-5906 ft.) NOTE When the altitude is 1800- 5000 m (5906- 16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature	-40°C to +70°C (-40°F to +158°F)				
Relative humidity	5% to 95% (non-condensing)				
Surge protection	±7 kV in common mode	±7 kV in common mode	±7 kV in common mode	±7 kV in common mode	±7 kV in common mode

Item	CloudEngine S1730S- S24T4S-A	CloudEngine S1730S-S24P4S- A	CloudEngine S1730S- S48T4S-A	CloudEngine S1730S- S48P4S-A	CloudEngine S1730S- S24T4X-A
specification (service port)					
Surge protection specification (power port)	 Differential mode: ± 6 kV Common mode: ± 6 kV 	 Differential mode: ± 6 kV Common mode: ± 6 kV 	 Differential mode: ± 6 kV Common mode: ± 6 kV 	 Differential mode: ± 6 kV Common mode: ± 6 kV 	 Differential mode: ± 6 kV Common mode: ± 6 kV
Heat dissipation	Natural heat dissipation	Air-cooled heat dissipation and intelligent speed adjustment			

Service Features

CloudEngine S1730S-S web-managed switches

Item	CloudEngine S1730S-S
Port	VLAN/Voice VLAN
	Port bridge
	Jumbo frames
	Detect link
	Flow control auto-negotiation
	Traffic statistics collection on interfaces
	Interface rate auto-negotiation
	VLANIF interfaces
	MTU
	Link aggregation
	Static interface aggregation
Security	Port security
	Sticky MAC
	Suppressing broadcast, multicast, and unknown unicast traffic on interfaces
	Controlling broadcast, multicast, and unknown unicast storms
	Port isolation
	IPSG
	ARP security
	CPU security protection
Ethernet	4K VLANs
	Access modes of access, trunk, hybrid, and QinQ
	Interface-based VLAN assignment
	Interface-based MAC address learning
	Static MAC address entry
	Automatic aging of MAC addresses
STP	STP (IEEE 802.1d)
	RSTP (IEEE 802.1w)
	NOTI (ILLE 002.1W)

Item	CloudEngine S1730S-S
	MSTP (IEEE 802.1s)
Multicast	Multicast VLAN Layer 2 multicast policy IGMP V1/V2/V3 snooping MLD V1/V2 snooping Static multicast MAC address
Routing	Dynamic routes Static routes ARP ND DNS client
QoS	CAR Traffic policing Traffic shaping Priority mapping Queue scheduling Congestion avoidance IPv4 and IPv6 ACL
NAC	DHCP client DHCP relay DHCP server DHCP snooping DHCPv6 relay 802.1X authentication MAC address authentication Portal authentication Terminal type identification AAA
Device management	Web system network management Dormancy of electrical interfaces Automatic power adjustment on Ethernet interfaces (802.3az) Intelligent upgrade
Device maintenance	System log Ping Mirroring Loopback detection Virtual Cable Test (VCT) Link Layer Discovery Protocol (LLDP) NTP

CloudEngine S1730S-H fully-managed switches

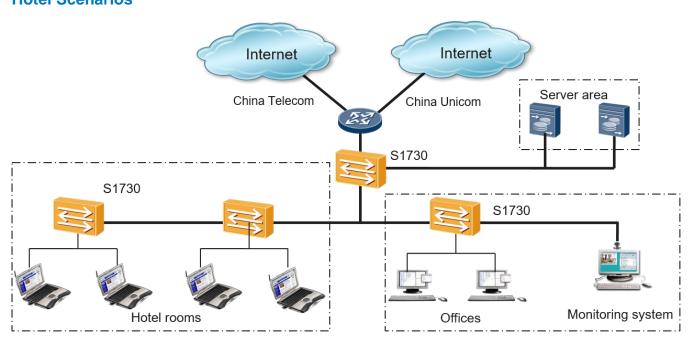
Item	CloudEngine S1730S-H
Port	VLAN/Voice VLAN
	Port bridge
	Jumbo frames
	Detect link
	Flow control auto-negotiation
	Traffic statistics collection on interfaces
	Interface rate auto-negotiation
	VLANIF interfaces
	MTU
	Link aggregation
	Static interface aggregation
Security	Hardware ACL
	Packet filtering based on MAC addresses
	MAC address authentication
	Port-based 802.1X authentication.
	RADIUS authentication
	Portal authentication
	Port isolation
	Storm suppression
	Attack defense, which prevents broadcast traffic, ARP attacks, ICMP attacks, TCP attacks, worm viruses, and DoS attacks
	DHCP snooping
	Port security
	Suppressing broadcast, multicast, and unknown unicast traffic on interfaces
	Controlling broadcast, multicast, and unknown unicast storms
	IPSG
	ARP defense
	CPU security protection
	Attack defense
VLAN	4K VLANs
	Access modes of access, trunk, hybrid, and QinQ
	Interface-based VLAN assignment
	Interface-based MAC address learning
	Static MAC address entry
	Automatic aging of MAC addresses
QoS	CAR
	Traffic policing
	Traffic shaping
	Priority mapping
	Congestion avoidance
	IPv4/IPv6 ACL
	PQ scheduling, WRR scheduling, and hybrid scheduling

Item	CloudEngine S1730S-H
	Eight queues on each interface DiffServ domain
STP	STP (IEEE 802.1d) RSTP (IEEE 802.1w) MSTP (IEEE 802.1s)
Multicast	Multicast VLAN Layer 2 multicast policy IGMP V1/V2/V3 snooping MLD V1/V2 snooping Static multicast MAC address
VPN	IPv4/IPv6 VPN IPsec Efficient VPN
Routing	Dynamic routes Static routes ARP ND DNS client
NAC	DHCP client DHCP relay DHCP server DHCP snooping DHCPv6 relay 802.1X authentication MAC address authentication Portal authentication Terminal type identification RADIUS PPPoE+ ND snooping
Ethernet OAM	Y.1731 802.1ag 802.3ah
Ring network protocols	Smart Link SEP RRPP MSTP ERPS DLDP VBST
IP OAM & SLA	NQA eMDI

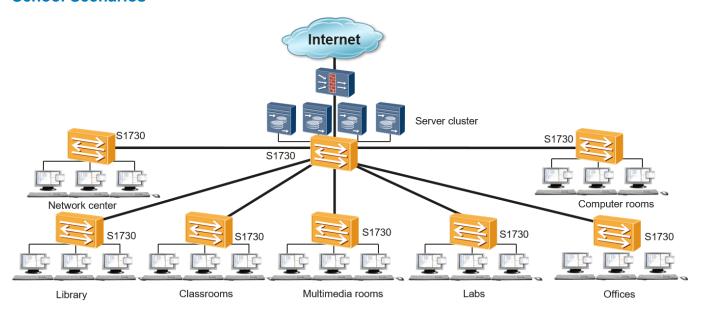
Item	CloudEngine S1730S-H
Device management	SNMP Web system network management
	DHCP client
	User password protection
	One-click restoration
	CLI configuration
	USB-based deployment
	Dormancy of electrical interfaces
	Automatic power adjustment on Ethernet interfaces (802.3az)
	Intelligent upgrade
Device maintenance	Remote network monitoring (RMON)
	System log
	Ping
	Mirroring
	Loopback detection
	Virtual Cable Test (VCT)
	Link Layer Discovery Protocol (LLDP)
	NTP

Networking and Applications

Hotel Scenarios



School Scenarios



Ordering Information

The following table lists ordering information of the CloudEngine S1730S series switches.

Model	Product Description
CloudEngine S1730S-H24T4S-A	CloudEngine S1730S-H24T4S-A (24*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
CloudEngine S1730S-H48T4S-A	CloudEngine S1730S-H48T4S-A (48*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
CloudEngine S1730S-S8T4S-A1	CloudEngine S1730S-S8T4S-A1 (8*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
CloudEngine S1730S-S8P4S-A1	CloudEngine S1730S-S8P4S-A1 (8*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, AC power)
CloudEngine S1730S-S24T4S-A1	CloudEngine S1730S-S24T4S-A1 (24*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
CloudEngine S1730S-S24P4S-A1	CloudEngine S1730S-S24P4S-A1 (24*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, AC power)
CloudEngine S1730S-S24T4X-A1	CloudEngine S1730S-S24T4X-A1 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power)
CloudEngine S1730S-S48T4S-A1	CloudEngine S1730S-S48T4S-A1 (48*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
CloudEngine S1730S-S48P4S-A1	CloudEngine S1730S-S48P4S-A1 (48*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, AC power)
CloudEngine S1730S-S48T4X-A1	CloudEngine S1730S-S48T4X-A1 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power)
CloudEngine S1730S-S24T4S-A	CloudEngine S1730S-S24T4S-A (24*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
CloudEngine S1730S-S24P4S-A	CloudEngine S1730S-S24P4S-A (24*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, AC power)

Model	Product Description
CloudEngine S1730S-S24T4X-A	CloudEngine S1730S-S24T4X-A (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power)
CloudEngine S1730S-S48T4S-A	CloudEngine S1730S-S48T4S-A (48*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
CloudEngine S1730S-S48P4S-A	CloudEngine S1730S-S48P4S-A (48*10/100/1000BASE-T ports,4*GE SFP ports,PoE+,1*1000W PoE AC power)

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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