Huawei CloudEngine S5731-H & S5731-S

Switches Datasheet

Router-Switch.com

Leading Network Hardware Supplier

CONTENT

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OVERVIEW

[Huawei CloudEngine S5731](#)-H series switches are brand-new enhanced gigabit access switches that provide all-GE electrical downlink ports, fixed 10GE uplink ports, and one extended slot.

CloudEngine S5731-H delivers gigabit connectivity at the aggregation or access layer in large and midsize campuses, at the core layer in branches and small campuses, and at the access layer in data centers. Integrating native WLAN AC capabilities to support up to 1024 WLAN APs, CloudEngine S5731-H enables you to converge your wired and wireless networks for simplified operations. It also offers free mobility to deliver consistent user experience and VXLAN-based virtualization to create a multi-purpose network. With built-in security probes, CloudEngine S5731-H supports abnormal traffic detection, Encrypted Communications Analytics (ECA), and network-wide threat deception.

[Huawei CloudEngine S5731](#)-S series switches are standard gigabit access switches that provide all-GE electrical ports and fixed 10GE uplink ports.

CloudEngine S5731-S series switches are next-generation gigabit access switches. Built on Huawei's unified Versatile Routing Platform (VRP), CloudEngine S5731-S switches provide enhanced Layer 3 features, simple O&M, Intelligent Stack (iStack), flexible Ethernet networking, and mature IPv6 features. These feature-rich switches are widely used in scenarios such as enterprise campus access and aggregation, as well as data center access.

APPEARANCE

CloudEngine S5731-H Series Switches

CloudEngine S5731-S Series Switches

KEY FEATURES AND BENEFITS

CloudEngine S5731-H Series Switches provides these features:

- Ultra Large Port Buffer, Ensuring Non-Blocking Data Forwarding

Deliver 6-fold more port buffer than the industry and provide gigabit bandwidth for non-blocking data forwarding, ideal for low-latency services in the Wi-Fi 6 era, such as voice, video, and VR services.

- Intelligent O&M, Achieving Fault Locating in Minutes

Collect device data in real time through Telemetry and collaborate with the campus network analyzer CampusInsight to quickly detect network problems that affect user experience, accurately assuring user experiences.

- Industry-Unique Security Deception Technology, Identifying Attacks in Advance

Use network spoofing and service emulation techniques to identify attack sources as early as when they initiate intranet scanning, and block the attack sources within minutes through security association.

CloudEngine S5731-S Series Switches provides these features:

- Automated Network Services

Leverage the power of VXLAN-based virtualization to automate the deployment of virtual networks, transforming a single-purpose network into a multi-purpose one and reducing OPEX by up to 80%.

- Simplified Network O&M

Use Super Virtual Fabric (SVF) to virtualize the "core/aggregation switch + access switch + AP" into a single logical device for simplified network O&M (SVF clients are plug-and-play).

- Integrated Security

Secure your operations with CloudEngine S5731-S's built-in security probes, which precisely identify potentially malicious traffic and collaborate with the Cybersecurity Intelligence System (CIS) to achieve network-wide collaborative security protection.

PRODUCT SPECIFICATIONS

Product Model	CloudEngine S5731-H24T4XC	CloudEngine S5731-H48T4XC	CloudEngine S5731-H24P4XC	CloudEngine S5731-H48P4XC
Switching Capacity2	288 Gbps/672 Gbps	336 Gbps/672 Gbps	288 Gbps/672 Gbps	336 Gbps/672 Gbps
Fixed Ports	24 × 10/100/1000Base-T Ethernet ports, 4 × 10 Gig SFP+	48 × 10/100/1000Base-T Ethernet ports, 4 × 10 Gig SFP+	24 × 10/100/1000Base-T Ethernet ports, 4 × 10 Gig SFP+	48 × 10/100/1000Base-T Ethernet ports, 4 × 10 Gig SFP+
PoE+	Not supported	Not supported	Supported	Supported
Extended Slots	One extended slot, support 2 x 40GE QSFP+, 2 x 25GE SFP28 or 8 x 10GE SFP+, 8*10GE Base-T cards			
Wireless Services	Management of up to 1024 APs AP access control, AP domain management, and AP configuration template management Radio channel management, unified static configuration, and dynamic centralized management WLAN basic services, QoS, security, and user management CAPWAP, tag/terminal location, and spectrum analysis			
iPCA	Collection of real-time statistics on the number of lost packets and packet loss ratio at network and device levels			
Super Virtual Fabric (SVF)	Functions as the parent node to virtualize downstream switches and APs vertically as one device for simpler management Supports a two-layer client architecture Supports third-party devices between SVF parent and clients			
VXLAN	VXLAN L2 and L3 gateways Centralized and distributed gateways BGP-EVPN Configured through the NETCONF protocol			

Interoperability	VBST (compatible with PVST, PVST+, and RPVST)
	LNP (similar to DTP)
	VCMP (similar to VTP)
	For detailed interoperability certifications and test reports, click here.

Product Model	CloudEngine S5731-S24T4X	CloudEngine S5731-S48T4X	CloudEngine S5731-S24P4X	CloudEngine S5731-S48P4X
Forwarding Performance	96 Mpps	125 Mpps	96 Mpps	125 Mpps
Switching Capacity2	128 Gbps/672 Gbps	176 Gbps/672 Gbps	128 Gbps/672 Gbps	176 Gbps/672 Gbps
Fixed Ports	24 x 10/100/1000Base-T Ethernet ports, 4 x 10 Gig SFP+	48 x 10/100/1000Base-T Ethernet ports, 4 x 10 Gig SFP+	24 x 10/100/1000Base-T Ethernet ports, 4 x 10 Gig SFP+	48 x 10/100/1000Base-T Ethernet ports, 4 x 10 Gig SFP+
PoE+	Not supported	Not supported	Supported	Supported
MAC Features	32K MAC entries MAC address learning and aging Static, dynamic, and blackhole MAC address entries Packet filtering based on source MAC addresses			
VLAN Features	4,094 VLANs Guest VLAN, Voice VLAN GVRP MUX VLAN VLAN assignment based on MAC addresses, protocols, IP subnets, policies, and ports 1:1 and N:1 VLAN mapping			

Super Virtual Fabric (SVF)	Plug-and-play SVF client Automatic software and patch loading to clients One-click and automatic delivery of service configurations Independent client running
VXLAN	VXLAN L2 and L3 gateways Centralized and distributed gateways BGP-EVPN Configured through the NETCONF protocol
Interoperability	VBST (compatible with PVST/PVST+/RPVST) LNP (similar to DTP) VCMP (similar to VTP)

BASIC ORDERING INFORMATION

SKU	Description
S5731-H24T4XC	Huawei S5731-H24T4XC (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 1*expansion slot, without power module)
S5731-H48T4XC	Huawei S5731-H48T4XC (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 1*expansion slot, without power module)
S5731-H24P4XC	Huawei S5731-H24P4XC (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 1*expansion slot, PoE+, without power module)
S5731-H48P4XC	Huawei S5731-H48P4XC (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 1*expansion slot, PoE+, without power module)
S5731S-H24T4XC-A	Huawei S5731S-H switch, 24 x 10/100/1000Base-T Ethernet ports, 4 x 10 GE SFP+
S5731S-H48T4XC-A	Huawei S5731S-H switch, 48 x 10/100/1000Base-T Ethernet ports, 4 x 10 GE SFP+
S5731-S24T4X	Huawei S5731-S24T4X(24*10/100/1000BASE-T ports,4*10GE SFP+ ports,without power module)

S5731-S48T4X	Huawei S5731-S48T4X (48*10/100/1000BASE-T ports,4*10GE SFP+ ports,without power module)
S5731-S24P4X	Huawei S5731-S24P4X (24*10/100/1000BASE-T ports,4*10GE SFP+ ports,PoE+, without power module)
S5731-S48P4X	Huawei S5731-S48P4X (48*10/100/1000BASE-T ports,4*10GE SFP+ ports,PoE+,without power module)
S5731S-S24T4X-A	Huawei S5731 switch, 24 10/100/1000Base-T ports,4 10G SFP ports, 1 60W AC Power Supply, Distribution model
S5731S-S24P4X-A	Huawei S5731S-S switch, 24 x 10/100/1000Base-T Ethernet ports, 4 x 10 Gig SFP+, PoE+
S5731S-S48T4X-A	Huawei S5731S-S switch, 48 x 10/100/1000Base-T Ethernet ports, 4 x 10 Gig SFP+
S5731S-S48P4X-A	Huawei S5731S-S switch, 48 x 10/100/1000Base-T Ethernet ports, 4 x 10 Gig SFP+, PoE+
S5731S-H24T4X-A	Huawei SS5731 switch, 24 10/100/1000BASE-T ports, 4 10G SFP+, 1 150W AC Power Supply, Distribution model
S5731S-H24T4S-A	Huawei SS5731 switch, 24 10/100/1000BASE-T ports, 4 GE SFP+, 1 150W AC Power Supply, Distribution model
S5731S-H48T4X-A	Huawei SS5731 switch, 48 10/100/1000BASE-T ports, 4 10G SFP+, 1 150W AC Power Supply, Distribution model
S5731S-H48T4S-A	Huawei SS5731 switch, 48 10/100/1000BASE-T ports, 4 GE SFP+, 1 150W AC Power Supply, Distribution model
S5731-H24P4XC-K	Huawei S5731 switch, 24 10/100/1000Base-T ports (PoE+), 4 10G SFP+
S5731-H48P4XC-K	Huawei S5731 switch, 48 10/100/1000Base-T ports (PoE+), 4 10G SFP+

WHERE TO BUY

Want to buy this series of products? please contact:

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Or visit: Huawei CloudEngine S5731 Switches

About us

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SOURCES

https://e.huawei.com/us/products/enterprise-networking/switches/campus-switches/s5731-h

https://e.huawei.com/us/products/enterprise-networking/switches/campus-switches/s5731-s