CloudEngine S5731-S Series Multi-GE Switches Brochure

CloudEngine S5731-S series next-generation Multi-GE Switches offer 2.5GE and 10GE electrical downlink ports and 40GE optical uplink ports.

Product Overview

Built on Huawei's unified Versatile Routing Platform (VRP), CloudEngine S5731-S series next-generation Multi-GE switches provide enhanced Layer 3 features, simplified Operations & Maintenance (O&M), Intelligent Stack (iStack) technology, flexible Ethernet networking, and mature Internet Protocol version 6 (IPv6) features. The series is widely used in a range of scenarios, including enterprise campus access and aggregation, as well as data center access.

Models and Appearances

CloudEngine S5731-S series Multi-GE switches include the following models:

Models and Appearances	Description
 CloudEngine S5731-S24N4X2Q-A	• 24 × 1G/2.5G Base-T Ethernet ports,4 x 10GE SFP+,2 x 40GE QSFP ports • AC power supply • Forwarding performance:125 Mpps • Switching capacity:360 Gbps/672 Gbps
 CloudEngine S5731-S24UN4X2Q	• 24 × 1G/2.5G Base-T Ethernet ports,4 x 10GE SFP+,2 x 40GE QSFP ports • PoE++ • 3 power supplies, supporting N+1 redundancy • Forwarding performance:125 Mpps • Switching capacity:360 Gbps/672 Gbps
 CloudEngine S5731-S8UM16UN2Q	• 8 × 100M/1G/2.5G/5G/10G,16 × 100M/1G/2.5G Ethernet ports, 2 × 40GE QSFP ports • PoE++ • 3 power supplies, supporting N+1 redundancy • Forwarding performance:125 Mpps • Switching capacity: 400 Gbps/672 Gbps *Note: Supports switching to 12 x 100M/1/2.5/5/10G Base-T Ethernet ports, 12 x 100M/1G/2.5G Base-T Ethernet ports, 4 x 10G SFP+*

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.

Features and Highlights

Powerful Service Processing Capability and Multiple Security Control Mechanisms

- The CloudEngine S5731-S series next-generation Multi-GE Switches supports many Layer 2/Layer 3 multicast protocols such as PIM SM, PIM DM, PIM SSM, MLD, and IGMP snooping, to support multi-terminal high-definition video surveillance and video conferencing services.
- The CloudEngine S5731-S series next-generation Multi-GE Switches supports multiple Layer 3 features including OSPF, IS-IS, BGP, and VRRP, meeting enterprises' requirements on access and aggregation service bearing, and enabling a variety of voice, video, and data applications.
- The CloudEngine S5731-S series next-generation Multi-GE Switches supports MAC address authentication, 802. 1x authentication, and Portal authentication, and implements dynamic delivery of policies (VLAN, QoS, and ACL) to users.
- The CloudEngine S5731-S series next-generation Multi-GE Switches provides a series of mechanisms to defend against DoS 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 change of the DHCP CHADDR value.
- The CloudEngine S5731-S series next-generation Multi-GE Switches sets up and maintains a DHCP snooping binding table, and discards the packets that do not match the table entries. You can specify DHCP snooping trusted and untrusted ports to ensure that users connect only to the authorized DHCP server.
- The CloudEngine S5731-S series next-generation Multi-GE Switches supports strict ARP learning, which protects a network against ARP spoofing attacks to ensure normal network access.

Easy O&M

- The CloudEngine S5731-S series next-generation Multi-GE Switches supports Super Virtual Fabric (SVF), which virtualizes the "Core/aggregation + Access switch + AP" structure into a logical device. The CloudEngine S5731-S provides the innovative network management solution in the industry to simplify device management. It allows plug-and-play access switches and APs. In addition, the CloudEngine S5731-S supports service configuration templates. The templates are configured on core devices and automatically delivered to access devices, enabling centralized control, simplified service configuration, and flexible configuration modification. The CloudEngine S5731-S functions as a client in an SVF system.
- The CloudEngine S5731-S series next-generation Multi-GE Switches supports zero-touch deployment, replacement of faulty devices without additional configuration, USB-based deployment, batch 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. The CloudEngine S5731-S 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.

Multiple Reliability Mechanisms

- The CloudEngine S5731-S series next-generation Multi-GE Switches supports iStack. This technology can virtualize up to nine physical switches into one 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 capacity by simply adding member switches. iStack also simplifies device configuration and management. After a stack is set up, multiple physical switches are virtualized into one logical device. You can log in to any member switch in the stack to manage all the member switches in the stack.
- The CloudEngine S5731-S series next-generation Multi-GE Switches are equipped with three pluggable power modules that can work in N+1 redundancy backup mode.
- In addition to traditional STP, RSTP, and MSTP, the CloudEngine S5731-S series next-generation Multi-GE Switches supports 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 protection 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.

- The CloudEngine S5731-S series next-generation Multi-GE Switches supports Smart Link. One CloudEngine S5731-S switch can connect to multiple aggregation switches through multiple links, implementing backup of uplinks and significantly improving reliability of access devices.
- The CloudEngine S5731-S series next-generation Multi-GE Switches supports Ethernet OAM (IEEE 802.3ah/802.1ag) to detect link faults quickly.

Mature IPv6 Technologies

- The CloudEngine S5731-S series next-generation Multi-GE Switches uses the mature, stable VRP platform and supports IPv4/IPv6 dual stack, IPv6 RIPng, and IPv6 over IPv4 tunnels (including manual, 6-to-4, and ISATAP tunnels). With these IPv6 features, the CloudEngine S5731-S 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)

- The CloudEngine S5731-S series next-generation Multi-GE Switches supports 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 capacity by simply adding member switches. iStack also simplifies device configuration and management. After a stack is set up, up to nine 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 the stack.

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.
- The CloudEngine S5731-S series next-generation Multi-GE 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.

NOTE

For detailed information about VXLAN, visit
https://e.huawei.com/en/material/onLineView?MaterialID=741ea70ef97e4dd8bc2b4ef350b48949

PoE Power Supply

- Perpetual PoE: When a PoE switch is rebooted after the software version is upgraded, the power supply to PDs is not interrupted. This capability ensures that PDs are not powered off during the switch reboot.
- Fast PoE: PoE switches can supply power to PDs within 10s after they are powered on. This is different from common switches that generally take 1 to 3 minutes to start to supply power to PDs. When a PoE switch reboots due to a power failure, the PoE switch continues to supply power to the PDs immediately after being powered on without waiting until it finishes reboot. This greatly shortens the power failure time of PDs.

NOTE

For more information about PoE, visit
https://e.huawei.com/en/material/onLineView?materialid=e28cc3ad158140e8af1547bc510ecd34

Intelligent O&M

- The CloudEngine S5731-S series next-generation Multi-GE 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.
- The CloudEngine S5731-S series next-generation Multi-GE Switches supports a variety of intelligent O&M features for audio and video services, including the enhanced Media Delivery Index (eMDI). With this eDMI function, the switch can function as a monitored node to periodically conduct statistics and report audio and video service indicators to the CampusInsight platform. In this way, the CampusInsight platform 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.

Big Data Security Collaboration

- The CloudEngine S5731-S series next-generation Multi-GE Switches use NetStream to collect campus network data and then report such data to the Huawei HiSec Insight. The purposes of doing so are to detect network security threats, display the security posture across the entire network, and enable automated or manual response to security threats. The HiSec Insight delivers the security policies to the iMaster NCE-Campus. The iMaster NCE-Campus then delivers such policies to switches that will handle security events accordingly. All these ensure campus network security.
- The CloudEngine S5731-S series next-generation Multi-GE Switches supports Encrypted Communication Analytics(ECA). It uses built-in ECA probes to extract characteristics of encrypted streams based on NetStream sampling and Service Awareness(SA), generates metadata, and reports the metadata to HiSec Insight. The HiSec Insight uses the AI algorithm to train the traffic model and compare characteristics of extracted encrypted traffic to identify malicious traffic. The HiSec Insight displays detection results on the GUI, provides threat handling suggestions, and automatically isolates threats with the iMaster NCE-Campus to ensure campus network security.
- The CloudEngine S5731-S series next-generation Multi-GE Switches supports deception. It functions as a sensor to detect threats such as IP address scanning and port scanning on a network and lures threat traffic to the honeypot for further checks. The honeypot performs in-depth interaction with the initiator of the threat traffic, records various application-layer attack methods of the initiator, and reports security logs to the HiSec Insight. The HiSec Insight analyzes security logs. If the HiSec Insight determines that the suspicious traffic is an attack, it generates an alarm and provides handling suggestions. After the administrator confirms the alarm, the HiSec Insight delivers a policy to the iMaster NCE-Campus. The iMaster NCE-Campus delivers the policy to the switch for security event processing, ensuring campus network security.

Cloud 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. Huawei switches support both cloud 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 (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.

Licensing

CloudEngine S5731-S series next-generation Multi-GE 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: Layer 2 functions, IPv4, IPv6, SVF, and others (MPLS) Note: For details, see the Service Features	√	√	√

Switch Functions	N1 Basic Software	N1 Foundation Software Package	N1 Advanced Software Package
Basic network automation based on the iMaster NCE-Campus: • Basic automation: Plug-and-play • Basic monitoring: Application visualization • NE management: Image and topology management and discovery • User access authentication	×	√	√
Advanced network automation and intelligent O&M: VxLAN, free mobility, and CampusInsight basic functions	×	×	√

Product Specifications

Item	CloudEngine S5731-S24N4X2Q-A	CloudEngine S5731-S24UN4X2Q	CloudEngine S5731-S8UM16UN2Q
Fixed port	24 × 1G/2.5G Base-T Ethernet ports,4 x 10GE SFP+,2 x 40GE QSFP ports	24 × 1G/2.5G Base-T Ethernet ports,4 x 10GE SFP+,2 x 40GE QSFP ports	8 × 100M/1G/2.5G/5G/10G,16 × 100M/1G/2.5G Ethernet ports, 2 × 40GE QSFP ports
Dimensions (H x W x D)	43.6 mm x 442 mm x 220 mm	43.6 mm x 442 mm x 420 mm	43.6 mm x 442 mm x 420 mm
Chassis height	1U	1U	1U
Chassis weight (including packaging)	5.4 kg	9.81 kg	9.81 kg
Power supply type	Built-in AC	• 600W PoE AC (pluggable) • 1000W PoE AC (pluggable) • 1000W PoE DC (pluggable)	• 600W PoE AC (pluggable) • 1000W PoE AC (pluggable) • 1000W PoE DC (pluggable)
Rated voltage range	AC input: 100 V AC to 240 V AC, 50/60 Hz	• AC input（600W/1000W PoE AC）：100-240V AC；50/60Hz • DC input（600W/1000W PoE AC）：240V DC • DC input (1000 W DC):（1000W PoE DC）：-48~ -60V DC	• AC input（600W/1000W PoE AC）：100-240V AC；50/60Hz • DC input（600W/1000W PoE AC）：240V DC • DC input (1000 W DC):（1000W PoE DC）：-48~ -60V DC
Maximum voltage range	AC input: 90V AC～264V AC；47Hz～63Hz	• AC input（600W/1000W PoE AC）：90-290V AC；45Hz-66Hz • High-voltage DC input（600W/1000W PoE AC）：190-290V DC (meeting 240 V high-voltage DC certification)	• AC input（600W/1000W PoE AC）：90-290V AC；45Hz-66Hz • High-voltage DC input（600W/1000W PoE AC）：190-290V DC (meeting 240 V high-voltage DC certification)

Item	CloudEngine S5731-S24N4X2Q-A	CloudEngine S5731-S24UN4X2Q	CloudEngine S5731-S8UM16UN2Q
		• DC input （1000W PoE DC）：-38.4~ -72V DC	• DC input （1000W PoE DC）：-38.4~ -72V DC
Maximum power consumption	134 W	• 171 W (without PD) • 2571 W (with PD, PD power consumption of 2268 W)	• 171 W (without PD) • 2571 W (with PD, PD power consumption of 2268 W)
Noise	• Under normal temperature (sound power): 43.7dB (A) • Under high temperature (sound power): 48.9dB (A) • Under normal temperature (sound pressure): 31.7dB (A)	• Under normal temperature (sound power): 52.5dB (A) • Under high temperature (sound power): 78.1dB (A) • Under normal temperature (sound pressure): 38.82dB (A)	• Under normal temperature (sound power): 52.5dB (A) • Under high temperature (sound power): 78.1dB (A) • Under normal temperature (sound pressure): 38.82dB (A)
Operating temperature	-5℃～45℃	-5℃～45℃	-5℃～45℃
Storage temperature	-40℃～70℃	-40℃～70℃	-40℃～70℃
Relative humidity	5%–95% (non-condensing)	5%–95% (non-condensing)	5%–95% (non-condensing)
Surge protection specification (service port)	Common mode: ±7 kV	Common mode: ±7 kV	Common mode: ±7 kV
Surge protection specification (power port)	AC power port: ±6 kV in differential mode, ±6 kV in common mode	• AC power port: ±6 kV in differential mode, ±6 kV in common mode • DC power port: ±2 kV in differential mode, ±4 kV in common mode	• AC power port: ±6 kV in differential mode, ±6 kV in common mode • DC power port: ±2 kV in differential mode, ±4 kV in common mode
Heat dissipation	Air-cooled heat dissipation and intelligent fan speed adjustment	Air-cooled heat dissipation and intelligent fan speed adjustment	Air-cooled heat dissipation and intelligent fan speed adjustment

Service Features

Except for special instructions, the following features are supported by CloudEngine S5731-S with N1 basic software.

Feature	Description
MAC address table	IEEE 802.1d standards compliance
	64K MAC address entries
	MAC address learning and aging
	Static, dynamic, and blackhole MAC address entries
	Packet filtering based on source MAC addresses
VLAN	4094 VLANs
	Guest VLAN and voice VLAN

Feature	Description
	GVRP
	MUX VLAN
	VLAN assignment based on MAC addresses, protocols, IP subnets, policies, and ports
	VLAN mapping
Ethernet loop protection	RRPP ring topology and RRPP multi-instance
	Smart Link tree topology and Smart Link multi-instance, providing millisecond-level protection switching
	SEP
	ERPS (G.8032)
	BFD for OSPF, BFD for IS-IS, BFD for VRRP, and BFD for PIM
	STP (IEEE 802.1d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s)
	BPDU protection, root protection, and loop protection
IP routing	Static routes, RIP v1/2, RIPng, OSPF, OSPFv3, IS-IS, IS-ISv6, BGP, BGP4+, ECMP, routing policy
	Up to 16K FIBv4 entries
	Up to 8K FIBv6 entries
Interoperability	VLAN-Based Spanning Tree (VBST), working with PVST, PVST+, and RPVST
	Link-type Negotiation Protocol (LNP), similar to DTP
	VLAN Central Management Protocol (VCMP), similar to VTP
IPv6 features	Up to 8K ND entries
	PMTU
	IPv6 Ping, IPv6 Tracert, and IPv6 Telnet
	ACLs based on source IPv6 addresses, destination IPv6 addresses, Layer 4 ports, or protocol types
	Multicast Listener Discovery snooping (MLDv1/v2)
	IPv6 addresses configured for sub-interfaces, VRRP6, DHCPv6, and L3VPN
Multicast	IGMP v1/v2/v3 snooping and IGMP fast leave
	Multicast forwarding in a VLAN and multicast replication between VLANs
	Multicast load balancing among member ports of a trunk
	Controllable multicast
	Port-based multicast traffic statistics
	IGMP v1/v2/v3, PIM-SM, PIM-DM, and PIM-SSM
	MSDP
	MVPN
QoS/ACL	Rate limiting in the inbound and outbound directions of a port
	Packet redirection
	Port-based traffic policing and two-rate three-color CAR

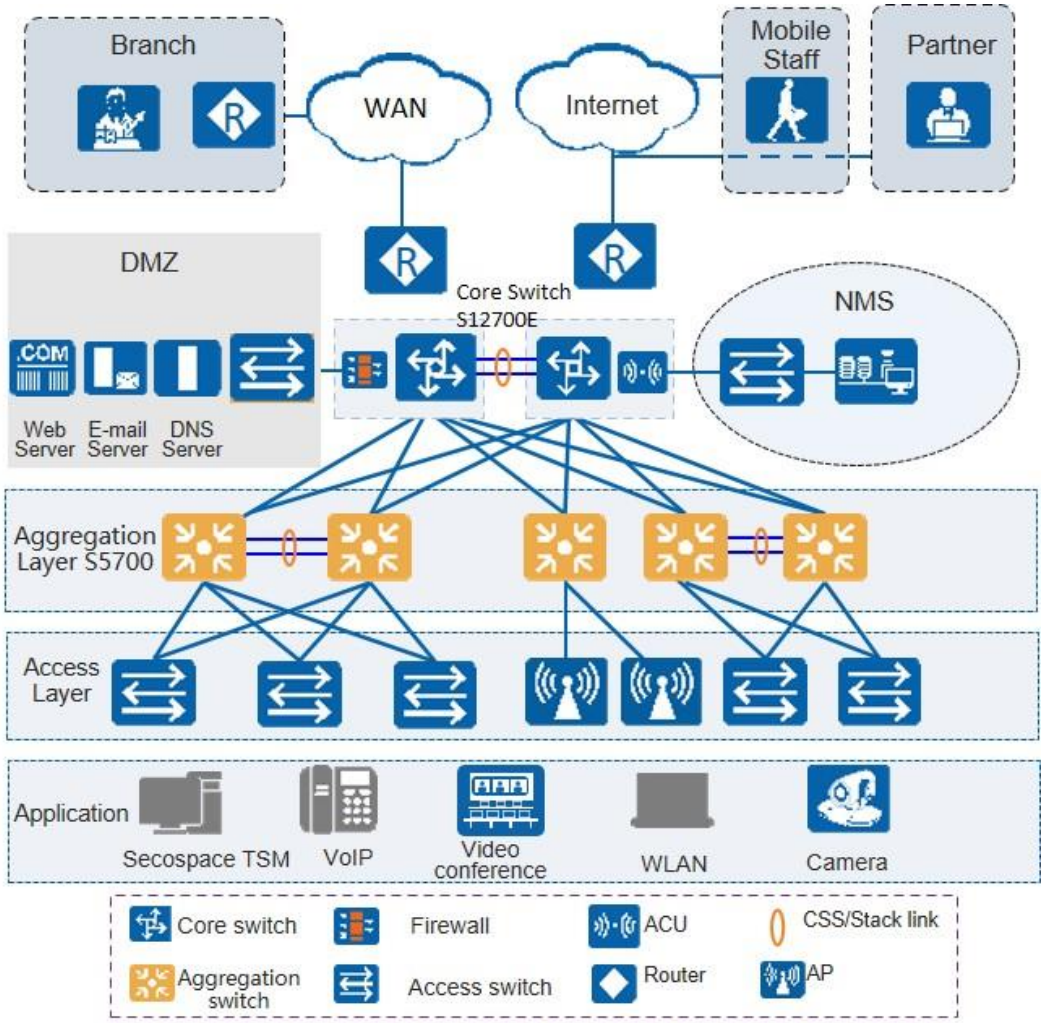
Feature	Description
	Eight queues per port
	DRR, SP and DRR+SP queue scheduling algorithms
	WRED
	Re-marking of the 802.1p and DSCP fields of packets
	Packet filtering at Layer 2 to Layer 4, filtering out invalid frames based on the source MAC address, destination MAC address, source IP address, destination IP address, TCP/UDP port number, protocol type, and VLAN ID
	Queue-based rate limiting and shaping on ports
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
	MAC Forced Forwarding (MFF)
	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, and HWTACACS authentication
	NAC
	SSH V2.0
	HTTPS
	CPU protection
	Blacklist and whitelist
	Attack source tracing and punishment for IPv6 packets such as ND, DHCPv6, and MLD packets
	Secure Boot
	IPSec
	ECA
	Deception
Reliability	LACP
	E-trunk
	Ethernet OAM (IEEE 802.3ah and IEEE 802.1ag)
	ITU-Y.1731
	DLDP
	LLDP
	BFD for BGP, BFD for IS-IS, BFD for OSPF, BFD for static route
VXLAN*	VXLAN L2 and L3 gateways

Feature	Description
	Centralized and distributed gateway
	BGP-EVPN
	Configured through the NETCONF protocol
Super Virtual Fabric (SVF)	A two-layer client architecture is supported.
	IGMP snooping can be enabled on access switches (ASs) and the maximum number of access users on a port can be configured.
	ASs can be independently configured. Services that are not supported by templates can be configured on the parent.
	Third-party devices are allowed between SVF parent and clients.
	Working as an SVF client that is plug-and-play with zero configuration
iPCA	Directly coloring service packets to collect real-time statistics on the number of lost packets and packet loss ratio
	Collection of statistics on the number of lost packets and packet loss ratio at network and device levels
TWAMP	Two-way IP link performance measurement
	Measurement on two-way packet delay, one-way packet loss rate, and one-way packet jitter
Management and maintenance	iStack, with up to 9 member switches in a stack
	SNMP v1/v2c/v3
	RMON
	Smart Application Control (SAC)
	Web-based NMS
	System logs and alarms of different levels
	GVRP
	MUX VLAN
	NetStream
	Intelligent O&M

Networking and Applications

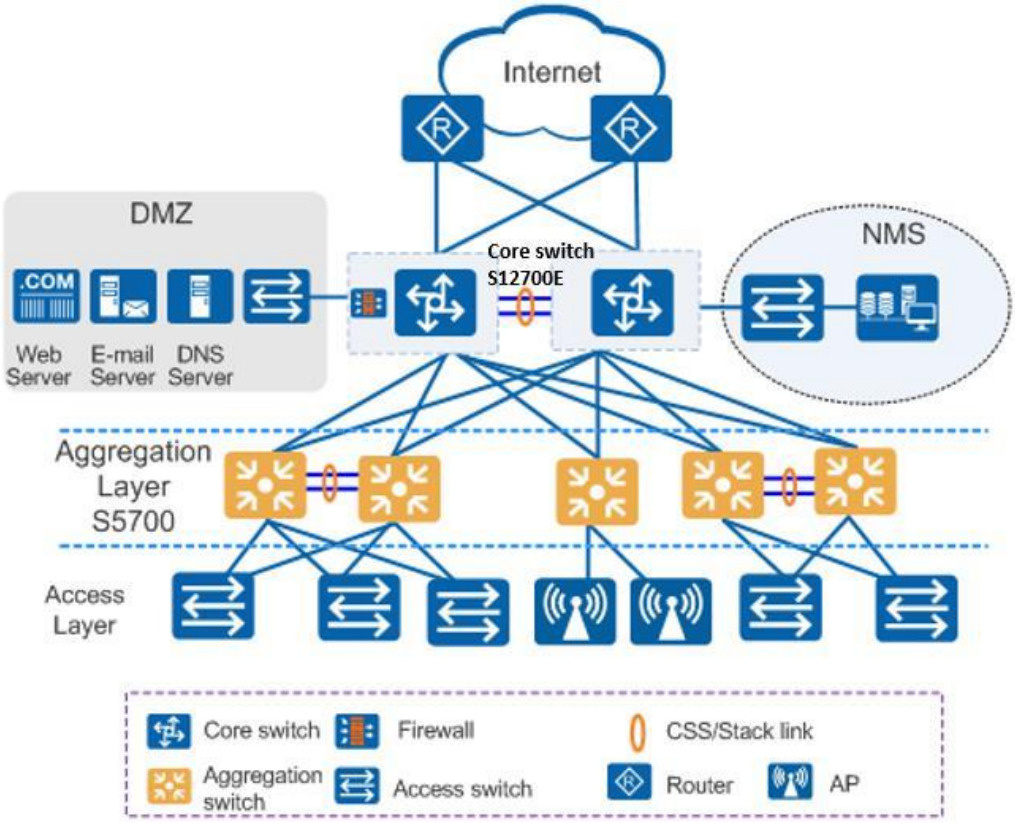
Large-Scale Enterprise Campus Network

CloudEngine S5731-S series next-generation Multi-GE Switches can be deployed at the access layer of a campus network to build a high-performance and highly reliable enterprise network.



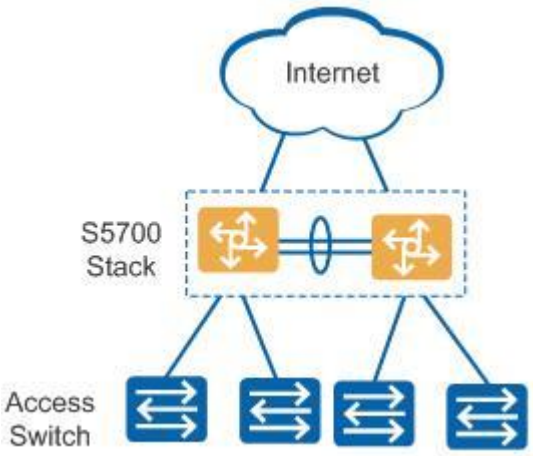
Small- or Medium-scale Enterprise Campus Network

CloudEngine S5731-S series next-generation Multi-GE Switches can be deployed at the aggregation layer of a campus network to build a high-performance, multi-service, and highly reliable enterprise network.



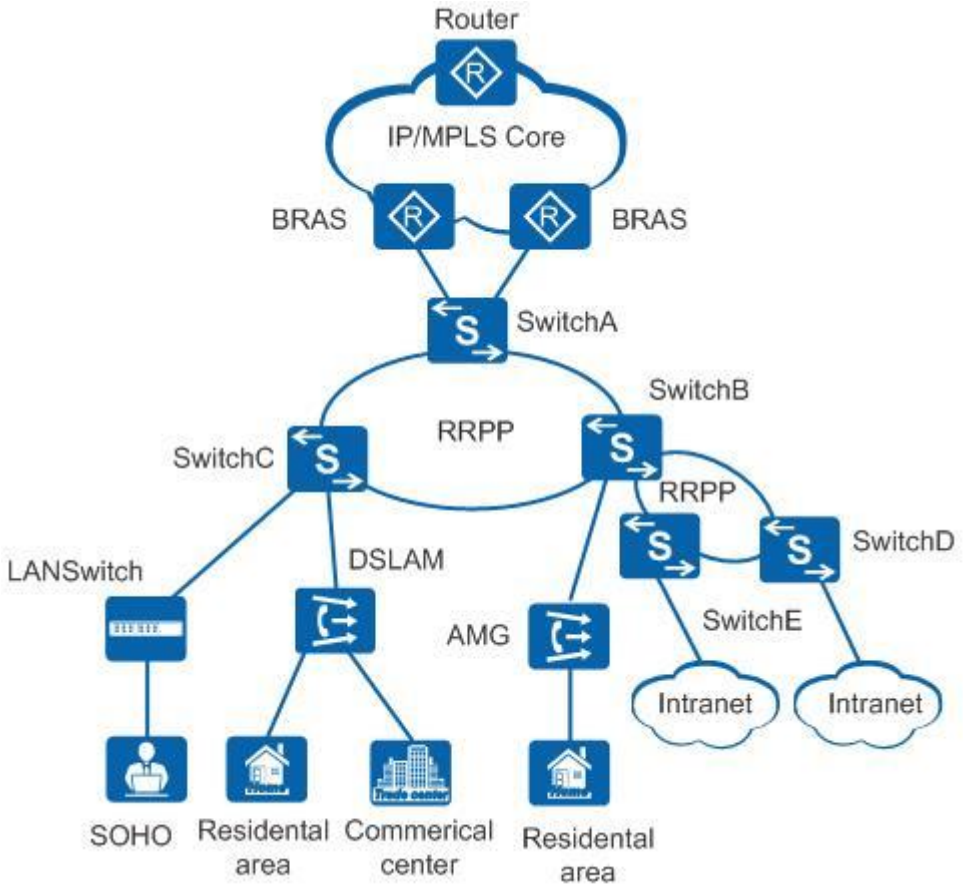
Small-scale Enterprise Campus Network

With powerful aggregation and routing capabilities of CloudEngine S5731-S series next-generation Multi-GE Switches make them suitable for use as core switches in a small-scale enterprise network. Two or more S5731-S Multi-GE Switches use iStack technology to ensure high reliability. They provide a variety of access control policies to achieve centralized management and simplify configuration.



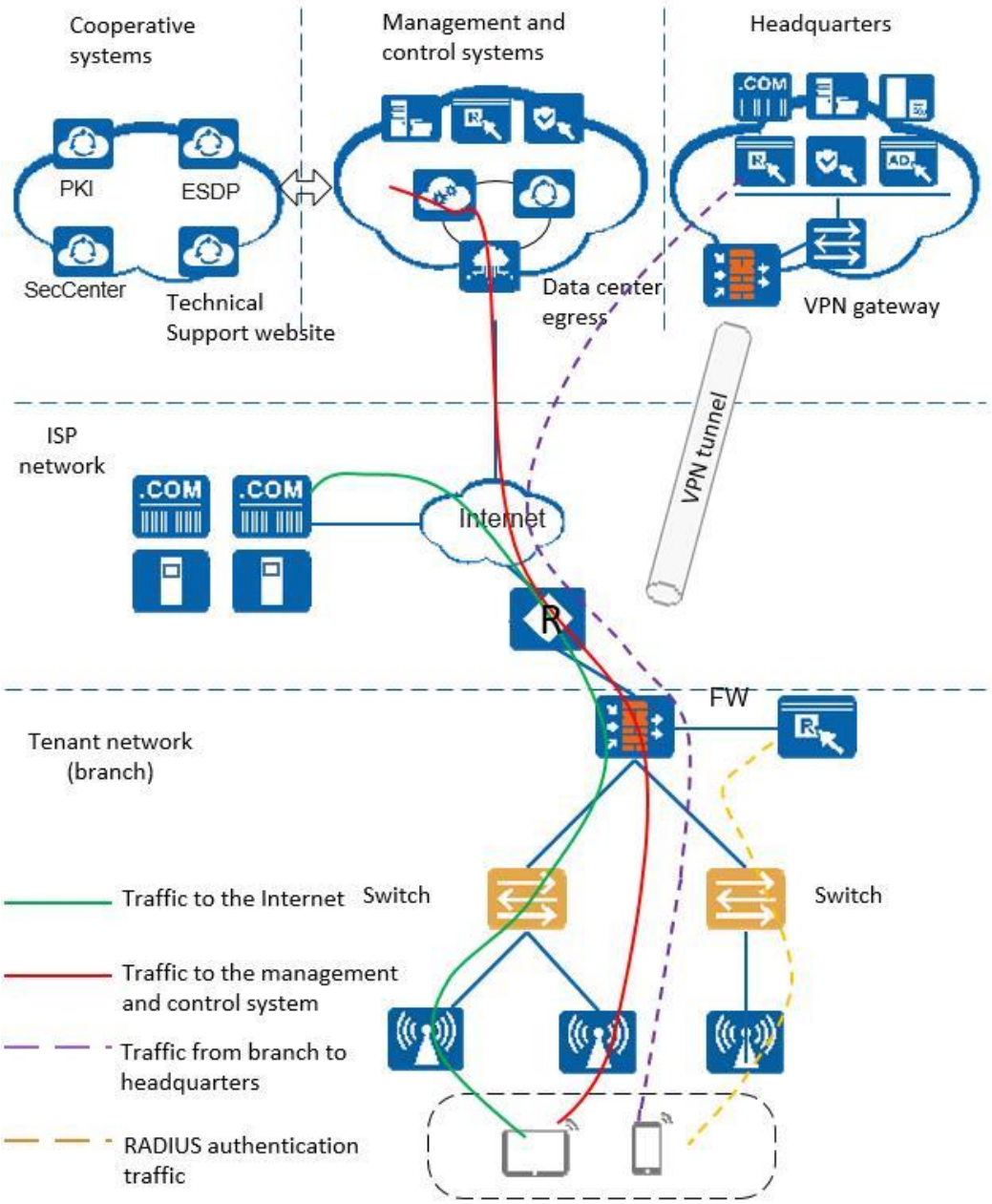
Application on a MAN

CloudEngine S5731-S series next-generation Multi-GE Switches can be deployed at the access layer of a MAN(Metropolitan Area Network) to build a high-performance, multi-service, and highly reliable ISP MAN network.



Application in Public Cloud

CloudCampus Solution is a network solution suite based on Huawei public cloud. CloudEngine S5731-S series next-generation Multi-GE Switches can be located at the access layer.The switches are plug-and-play. They go online automatically after being powered on and connected with network cables, without the need for complex configurations. The switches can connect to the management and control system (CloudCampus@AC-Campus for switches running V200R019C00 and earlier versions; iMaster NCE-Campus for switches running V200R019C10 and later versions), and use bidirectional certificate authentication to ensure management channel security. The switches provide the NETCONF and YANG interfaces, through which the management and control system delivers configurations to them. In addition, remote maintenance and fault diagnosis can be performed on the management and control system.



Ordering Information

The following table lists ordering information of the CloudEngine S5731-S series next-generation Multi-GE Switches.

Model	Product Description
CloudEngine S5731-S24N4X2Q-A	S5731-S24N4X2Q-A(24*100M/1G/2.5G Ethernet ports, 4*10GE SFP+ ports, 2*40GE QSFP ports, AC power, front access)
CloudEngine S5731-S24UN4X2Q	S5731-S24UN4X2Q (24*100M/1G/2.5G Ethernet ports, 4*10GE SFP+ ports, 2*40GE QSFP ports, PoE++, without power module)
CloudEngine S5731-S8UM16UN2Q	S5731-S8UM16UN2Q (8*100M/1G/2.5G/5G/10G,16*100M/1G/2.5G Ethernet ports, 2*40GE QSFP ports, switch to 12*100M/1G/2.5G/5G/10G,12*100M/1G/2.5G Ethernet ports, 4*10GE SFP+ ports, PoE++, without power module)
PAC600S56-EB	600 W AC & 240 V DC Power Module (66mm Width Case, Back to Front, Power panel side exhaust)

Model	Product Description
PAC1000S56-EB	1000W AC&240V DC Power Module(66mm Width Case, Back to Front, Power panel side exhaust)
PDC1000S56-EB	POE1000W DC Power Module (66mm Width Case, Back to Front, Power panel side exhaust)
L-VxLAN-S57	S57 Series, VxLAN License, Per Device
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

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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