

H3C S5600 Intelligent and Resilient Switches

Product Overview

The H3C S5600 Series Ethernet Switches are a new generation of multi-layer switches that entirely fulfills the enterprise customers' requirement of designing and implementing a unified, highly resilient network. One of the most important and innovative highlights of the S5600 Series Ethernet Switches is the IRF (Intelligent Resilient Framework) technology which presents the very advantage of stackable technology. IRF enables network managers to build adaptable networks with high reliability, scalability and easy management. S5600 Series Ethernet Switches represent the next generation desktop switches, they provide high-density GE ports, 10GE uplink, and hot-swappable power suppliers and can be used in access layer of Gigabit Ethernet network or in aggregation layer with high availability as well as scalability.

The H3C S5600 Series Switches are available, offering a cost-effective path for meeting current and future service requirements from enterprises and commercial businesses. The abundant features include advanced quality of service (QoS), rate-limiting, access control lists (ACLs), static and Routing Information Protocol (RIP) routing, OSPF (Open Shortest Path First) and IRF function (distributed device management, distributed redundant routing and distributed link aggregation), QinQ (VLAN-VPN), RSPAN (Remote switched port analyzer), VCT¹ (Virtual Cable Test), Protocol-Based VLAN and Voice VLAN, SSH V2 (Secure Shell V2), MVR (Multicast VLAN Registration), EAD (Endpoint Admission Defense), DLDP² (Device Link Detection Protocol) and HGMP V2 (Huawei group management protocol V2), Multicast routing, DHCP Server and VRRP (Virtual Redundancy Routing Protocol), HWTACACS, BGP, MSDP (Multicast Source Discovery Protocol)³, etc.

The H3C S5600 Series Ethernet Switches include the following models: **S5600-26C**, **S5600-26C-PWR**, **S5600-50C**, **S5600-50C-PWR** and **S5600-26F**. Further more, S5600-26C/S5600-50C can be upgraded to S5600-26C-PWR/S5600-50C-PWR by replacing the power suppliers, thus great increase savings on equipment investment of customers.

¹ For detail information, please refer to S5600 Series Switch System Description.

² For detail information, please refer to S5600 Series Switch System Description.

³ For detail information, please refer to S5600 Series Switch System Description



S5600-26C/S5600-26C-PWR



S5600-50C/S5600-50C-PWR



S5600-26F



S5600 IRF STACK

S5600-26C/S5600-26C-PWR have 24 Ethernet 10/100/1000 Base-T ports, 4 1000BASE-X SFP (combo), 2 dedicated stacking ports and one expansion slot. S5600-50C/S5600-50C-PWR have 48 Ethernet 10/100/1000Base-T ports, 4 1000BASE-X SFP (combo), 2 dedicated stacking ports and one expansion slot. S5600-26F has 24 Ethernet 1000Base-X SFP ports, 4 10/100/1000Base-T ports (combo), 2 dedicated stacking ports and one expansion slot. S5600-PWR model supports PoE, which transmit power over Ethernet to endpoint-devices. The combo ports in S5600 are combo of 10/100/1000BASE-T and 1000BASE-X.

Key Features and Benefits

Ø Full wire-speed, multi-layer switching

- S5600 series switches offer L2/L3 wire-speed switching capacity. The product series offers 10GE uplink speed, satisfies the most demanding.
- The hardware supports L3 wire-speed switching, and is able to identify and process the traffic flows from L4-L7.
- With independent packet filters, all ports distinguish different flows and forward them with corresponding priority.

Ø Innovative IRF technology

S5600 Series adopt an innovative technology, Intelligent Resilient Framework, so bandwidth can be expanded and upgraded smoothly. With IRF technology, S5600 series switches can be stacked up to 8 units, forming a distributed switching fabric with up to 96G stacking bandwidth between any two units. From the management and configuration perspective, the distributed switches act as one switching device and run as one logical entity,

while from a performance perspective, each switch in the IRF framework can make local forwarding decision both layer2 and layer3, the unit in the fabric can backup each other. Most importantly, IRF can provide the features that users are pressing for: reliability, scalability and manageability.

- S5600 Series switches support RMON on IRF, customers can collect RMON history and statistics data of any units from any switch in the fabric.
- HGMP V2 on IRF function allows customers to collect the information about the connection relations of the devices in a network and candidate devices, consequently maintaining and managing the cluster topology.
- Peer fabric port detection function can decide whether a device can join a IRF fabric or not.

The IRF technology provides: DDM (Distributed Device Management), DRR (Distributed Resilient Routing) and DLA (Distributed Link Aggregation).

- **Distributed Device Management(DDM)**
Distributed Device Management is the control system for IRF technology, responsible for distributing management and control information across the IRF Distributed Fabric. DDM allows the entire IRF Distributed Fabric to be managed as a single logical entity. Management tasks are all performed across the Distributed Fabric, minimizing complexity and administration overheads. In addition, the management IP address is shared across all units in the IRF Distributed Fabric, ensuring continuous device management and monitoring, in the event of an outage in one of the interconnected switches.
- **Distributed Resilient Routing (DRR)**
Distributed Resilient Routing is an advanced routing implementation that allows multiple interconnected switches in an IRF Distributed Fabric to behave as a single active routing entity. Unlike resilient Layer 3 implementations such as VRRP and HSRP, DRR intelligently distributes the routing load across all switches in the Distributed Fabric to optimize routing performance and make full use of bandwidth capacity.
- **Distributed Link Aggregation (DLA)**
Distributed Link Aggregation allows networks and IRF Distributed Fabrics to be coordinated with switches at the edge of the network. With the ability to multi-home across different units in the IRF Distributed Fabric, the availability of the entire network is dramatically increased. Traffic is forwarded across all links in the Aggregated Link to the fabric to optimize the use of available capacity. DLA guarantees high levels of resiliency since failure in one of the members of the Aggregated Link results in automatic redistribution of traffic across the remaining links.

Ø Excellent PoE (Power over Ethernet) Supply Function

S5600 series supply PoE function for endpoint devices, providing power over copper Ethernet cable to endpoint (Powered Device, such as IP phone, WLAN AP).

- S5600 series switches provide up to 48 simultaneous full-powered PoE ports at

15.4W for maximum powered-device support, such as IP telephony and wireless LAN deployments. As PSE (Power Sourcing Equipment) devices, all S5600 series Switches are 802.3af compliant PoE switches.

- With PoE and Voice VLAN technology, these innovative switches can provide the perfect solution for a converged voice and data network.
- S5600 series Switches supports PoE Profile, that means PoE policy configurations applicable to different user groups are stored in the corresponding PoE Profiles. When users connect a PD device to the port that currently has PoE Profile stored, the switch will automatically apply the PoE configuration defined in the corresponding port's PoE Profile to the PD device.

Ø Flexible security control policies

- Based on the longest match routing policy, the S5600 Series forward packets one by one ensuring equal forwarding performance. This function can guard the network against the attack by Code Red and Worm Blaster, thereby guaranteeing equipment security.
- The S5600 Series support 802.1x authentication to identify users who attempt to access the network. With the 802.1x client version checking function enabled on a switch, the switch checks the version and validity of the 802.1x client running on supplicant systems to prevent those that use earlier versions of 802.1x client or illegal clients from logging in.
- The S5600 Series support 802.1x PEAP, With PEAP employed, a security channel is created, which is encrypted and is protected using transport level security (TLS) to ensure integrity. And authentication is carried out through a new type of EAP (extensible authentication protocol) negotiation between supplicant systems and authentication servers.
- The S5600 Series support 802.1x-trusted MAC address. Trusted MAC address here refers to the MAC address of a supplicant system that passes 802.1x authentication and MAC address-based authentication. In this case, the MAC address becomes a trusted Mac address. The 802.1x trusted MAC Address synchronization function propagates the trusted MAC addresses in IRF (intelligent resilient framework) if the corresponding supplicant systems pass the authentication performed by IRF-enabled switches.
- The S5600 Series support Centralized MAC address authentication, it controls accesses to a network through ports and MAC addresses. This kind of authentication requires no client software. When operating in centralized MAC address authentication mode, a switch begins to authenticate the user if it detects a new user MAC address. Further more, the S5600 Series can Performe 802.1x authentication and MAC address-based authentication simultaneously.
- The S5600 Series support The Guest VLAN function, this function enables supplicant systems that are not authenticated to access specific resources and thus perform the corresponding operations, such as obtaining 802.1x client, upgrading client, or obtaining other upgrading programs.

- The S5600 Series can also prevent unauthorized access to the network by binding any combination of MAC, IP and PORT.
- Secure Shell V2 (SSH V2) offers security information protection and powerful authentication function to safeguard the Ethernet switch from attacks such as IP address spoofing and plain text cipher interception.

Ø High reliability

- The S5600 series support STP/RSTP and multi-VLAN based MSTP, greatly improving redundant back-up for links and fault tolerance capability, so that the network can run with high stability.
- The S5600 Series support the optional RPS (Redundant Power Supply), thus improving the fault tolerance capability and normal network operation duration. Power module of the S5600 Series is hot-swappable.
- The S5600 series support VRRP, and can build a VRRP back-up group with other L3 switches. They can build a redundant route topological structure when a fault occurs to guarantee communication continuity and reliability, keeping network status stable.
- The S5600 series supports VRRP backup group port tracking function, with the function enabled, customers can specify to track the link state of the master's uplink port and decrease the priority of the switch when the port fails. This in turn triggers the new master to be determined in the backup group.
- S5600 supports ECMP (Equal Cost Multi-path Protocol) routing, which can be used for load balance and routing redundancy.

Ø Abundant QoS policies

- The S5600 Series support L2~L4 complex flow classification based on source MAC address/destination MAC address/source IP address/destination IP address/ports/protocols.
- The S5600 Series support flexible queue scheduling algorithms, which can be set on the basis of port and queue at the same time. They support Strict Priority (SP), Weighted Round Robin (WRR) and SP+WRR; 8 priority queues and 2 drop precedence.
- The S5600 Series support Committed Access Rate (CAR) and limit the traffic speed in the 64Kbit/s granularity.
- The S5600 Series support RSPAN (Remote switched port analyzer), It breaks through the limitation that the mirrored port and the mirroring port have to be located in the same switch, and makes it possible that the mirrored and mirroring ports be located across several devices in the network, and greatly enhances the way that the network administrator can manage the switch.
- The S5600 Series support the Synchronization Feature of Queue Scheduling for Aggregation Ports. This feature provides the synchronization function of queue scheduling on each individual port of the aggregation port group.
- The S5600 Series support Delivery of ACL by RADIUS, this function requires

corporation of devices and the CAMS server. Users need to first define the ACL which is of numeric type, and then deliver the ACL to the hardware of the devices in the CAMS server through the configuration of external groups.

- The S5600 Series can configure the Priority for Protocol Packets, each protocol packet has its own priority. Customers can modify the priority of the protocol packet with the help of relevant QoS commands.
- The S5600 Series support to configure the control policy over Telnet, configuring the source IP, destination IP, and source MAC to control over. Also specify whether the control action is permitting or denying access.

Ø Diversified System Configuration and management modes

- The S5600 Series support Simple Network Management Protocol (SNMP) v1/v2/v3 and RMON (Remote Monitoring) v1, 1/2/3/9 groups of MIBs, they be managed by NMS. They can be managed by general network management platform such as OpenView, and Quidview network management system.
- The S5600 Series support Command Line Interface (CLI), Web based network management, modem dial-up and TELNET which make the equipment management more convenient.
- The S5600 Series support HGMP V2 cluster management, After enabling HGMP V2, the network administrator can manage several member switches through one command switch and only the command switch need a public network IP address, it can save public IP address greatly and manage the network more efficiently.
- The S5600 Series support SNMP Agent logging, it means the network management operation logging function logs operations can performe remotely by administrators through SNMP.

Ø Abundant System Maintenance and debugging methods

- The S5600 Series support System log, Hierarchical alarm management and alarm filtering, Detailed alarm/debug information output, Ping and Tracer, they also support remote maintenance via Telnet Modems and SSH.
- The S5600 Series support HWping, it is a new network diagnostic tool used to test the performance of protocols operating on network and It is an enhanced alternative to the ping command.
- The S5600 Series support DLDP (Device Link Detection Protocol), DLDP can detect the link status of the optical fiber cable or copper twisted pair. If DLDP finds a unidirectional link, it disables the related port automatically or informs users to disable it manually depending on specific configuration, to avoid potential network problems.
- The S5600 Series support Loopback detection on ports, after users enable loopback detection for Ethernet ports, the switch will monitor whether the ports have loopback on a regular basis; if the switch detects loopback for a particular port, and it will put that port under control.

- The S5600 Series support VCT (Virtual Cable Test) which is convenient for troubleshooting. Customers can start the virtual cable test (VCT) to make the system test the cable connected to the current electrical Ethernet port. The test items include: whether short or open circuit exists in the Rx/Tx direction of the cable, and what is the length of the cable in normal status or the length from the port to the fault point of the cable.

Specifications

Features	S5600-26C	S5600-26C-PWR	S5600-50C	S5600-50C-PWR	S5600-26F
Fixed port	24 10/100/1000Base-T ports, 4 1000BASE-X SFP (Combo) ports, and 2 dedicate high speed stacking ports		48 10/100/1000Base-T, 4 1000BASE-X SFP (Combo) ports, and 2 dedicate high speed stacking ports		24 1000Base-X SFP ports, 4 10/100/1000BASE-T(Combo) and 2 dedicate high speed stacking ports
Extended slot	1	1	1	1	1
Extended module	(1) 8 ports 1000Base-X SFP module (2) 1 port Xenpak 10GE Module (3) 2 ports XFP 10GE module				
Performance					
Wire speed L2/L3 switching	Port Switch capacity: 88Gbps Throughput: 65.47Mpps		Port Switch capacity: 136Gbps Throughput: 101.18Mpps		Port Switch capacity: 88Gbps Throughput: 65.47Mpps
Switching Fabric	192Gbps		240Gbps		192Gbps
Flash	16M	16M	16M	16M	16M
POE	No	Yes	No	Yes	No
Switching mode	Store and forward				
Forwarding Latency	<40μs				
SDRAM	128M				
Layer 2 feature					
MAC address table	Address self-learning IEEE 802.1D standard Up to 16K MAC addresses Up to 1k static MAC addresses				
VLAN	4k VLAN (IEEE802.1Q) Voice VLAN GVRP Support Port-based VLAN Protocol-based VLAN Configure VLANs in batch				
Stack	IRF(DDM, DRR, DLA) Stack up to 8 units in one stacking group Up to 448GE or 384GE and 16 10GE in one stacking group Stacking bandwidth 96Gbps RMON on IRF HGMP on IRF Peer fabric port testing ⁴				
Link aggregation	Link aggregation through command lines Dynamic link aggregation through LACP Link aggregation across switches Up to 8 GE or 4 10GE ports in each aggregation group Up to 32 aggregation groups (each aggregation port must be of the same speed)				

⁴ For detail information, please refer to S5600 Series Switch System Description.

Features	S5600-26C	S5600-26C-PWR	S5600-50C	S5600-50C-PWR	S5600-26F
	Manual link aggregation through command lines				
Mirroring	Many-to-one port mirroring (multiple monitored ports to one monitor port, N:1) Traffic mirroring				
STP/RSTP/MSTP	IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP) QinQ BPDU Tunnel Huawei-3Com-proprietary MSTP overhead standard				
Flow control	IEEE 802.3x (full duplex) Back-pressure based flow control (half duplex)				
Broadcast / Multicast / Unicast storm suppression	Port rate ratio(1% granularity) and PPS based suppression				
QinQ	Y, Support VLAN-VPN or double tag				
Layer 3 feature					
IP routing	Static routing 16K IP Routes RIPv1/v2 (Routing Information Protocol v1, v2) OSPF v2 (Open Shortest Path First) 4 ECMP(Equal Cost Multi-Path) RIP equivalent route BGP4				
Multicast	IGMP (Internet Group Management Protocol) v1 and v2 IGMP (Internet Group Management Protocol) snooping IGMP Group Limit on Interface 256 multicast groups Adding multicast MAC addresses manually Multicast source port suppression MVR(Multicast VLAN Registration) ⁵ PIM-DM PIM-SM MSDP(Multicast Source Discovery Protocol)				
Network Protocol	VRRP (Virtual redundancy routing protocol) DHCP server DHCP Snooping (Dynamic Host Configuration Protocol Snooping) DHCP Relay (Dynamic Host Configuration Protocol Relay) DHCP Client DHCP option 60 ARP (Address Resolution Protocol) NTP (Network Time Protocol) BOOTP (Bootstrap Protocol) UDP helper				
Convergence					
Quality of service (QoS)/ Access control list (ACL)	Support bi-directional port rate-limiting, Committed Access Rate (CAR), GE port with granularity of 64 Kbps and 10GE port with the granularity of 1 Mbps Eight output queues on each port Time-based QoS Packet redirection Three scheduling algorithms that can be set based on port and queue at the same time: <ul style="list-style-type: none"> • SP (Strict Priority) • WRR (Weighted Round Robin) • SP + WRR Packet tagging based on 802.1p or DSCP preference L2~L4 Packet filter providing filtering based on source/destination MAC address, source/destination IP address, port, protocol, VLAN, VLAN range, MAC address range, or invalid frame				

⁵ For detail information, please refer to S5600 Series Switch System Description.

Features	S5600-26C	S5600-26C-PWR	S5600-50C	S5600-50C-PWR	S5600-26F
	QoS profile management, allowing QoS service scheme customization Mirroring remote ports (Support RSPAN) Flow statistics for ACL rules defined using the deny keyword Improvements made for the depth-first order of ACL matching DSCP (differentiated services code point) refined when defining ACL rules Delivering ACLs in RADIUS Configuring synchronization for the queue schedule of aggregation ports Protocol packet priority Controlling Telnet users				
Security					
Network Login	Support Centralized MAC address authentication Support Disconnect unauthorized device (DUD) authentication Support Port isolation Support MAC address black hole Support MAC Address Learning Limit Prevent unauthorized access to the network by binding of MAC, IP and PORT Support SSH(Secure Shell) V2 (Automatic RSA public key configuring) Support Port security Support EAD (endpoint admission defense)				
802.1X	Support IEEE 802.1X user authentication Version checking (802.1 X supplicant system) Guest VLAN Dynamic VLAN 802.1 X PEAP/EAP/TLS/TTLS Performing 802.1 X authentication and MAC address-based authentication simultaneously 802.1 X -trusted MAC address 802.1 X client checking				
AAA&Radius	Separated authentication, authorization, and accounting Authenticated users need to be authenticated again when the device restarts Delivering of trunk ports and hybrid ports in Tag VLAN is supported when performing 802.1x authentications The tag authentication method field is added to RADIUS protocol HWTACACS				
Management/ Maintenance					
System Configuration and Management	Support CLI (Command Line Interface) configuration mode Support Configuration via the console port Support Local/Remote configuration via Telnet Support Remote configuration via modem dial-up Support System configuration with SNMP v1, 2 and 3 Support SNMP Agent logging Support HGMP V2 Support RMON (Remote Monitoring) v1, 1/2/3/9 groups of MIBs Support Quidview network management system Web-based network management				
File system management and seven-segment display	Upgrading all the units of a fabric using the App (or BootROM, Web) files of an unit Setting an App file of a fabric or an unit of a fabric to be the primary/a secondary configuration file Specifying a fabric or an unit of a fabric to use the primary configuration file, a secondary configuration file, or no configuration file to start. Performing specific file-related operations for a fabric or an unit of a fabric, such as deleting files stored in the storage devices of a Ethernet switch, displaying the information about specified files or directories in the storage devices of a Ethernet switch, and clearing the recycle bin. Customizing the password for entering the BOOT menu Configuration file backup/recovery Seven-segment display, which indicates the progress of loading software using FTP/TFTP				
System Maintenance and debugging	Detailed alarm/debug information output Support Ping and Tracert Support remote maintenance via Telnet Modems and SSH Support HWPing Support System log Hierarchical alarm management and alarm filtering				

Features		S5600-26C	S5600-26C-PWR	S5600-50C	S5600-50C-PWR	S5600-26F
		Support DLDP (Device Link Detection Protocol) Saving debugging information into Flash Displaying the information about all enabled types of debugging Displaying the statistics of MAC addresses of a switch Configuring Telnet users with specified source IP addresses/source ports Setting the Daylight Saving Time Loopback detection on ports Support VCT(Virtual Cable Test)				
Information center		Exporting switch synchronization information Setting the format of time stamps to be sent to log hosts				
Hardware configuration						
Outline dimension		440 mm × 43.6 mm × 420mm (17.32 in.× 1.72 in. × 16.54 in.)				
Weight		7.1Kg		7.4Kg		7.1Kg
Power supply	Power module	PSL130-AD: 130 W system output, AC/DC input PSL480-AD24P: 24-port PoE power module, 180 W system output + 300 W PoE output (AC input); 180 W system output + 370 W PoE output (DC input) PSL180-AD: 180 W system output, AC/DC input PSL480-AD48P: 48-port PoE power module, 180 W system output + 300 W PoE output (AC input); 180 W system output + 740 W PoE output (DC input)				
	Input voltage	AC: Rated voltage: 100V to 240V, 50 Hz to 60Hz Maximum tolerance:90V to 264V, 50 Hz to 60Hz DC: Rated voltage: -48V to -60V Maximum tolerance: -36V to -72V				
	Input DC voltage of PoE power module	The S5600-26C-PWR/S5600-50C-PWR must use the external PoE PSU recommended by Huawei-3Com as its DC input, but not the -48VDC power supply generally available in the equipment room. Otherwise, the device may be damaged. DC input of the PoE power module: Rated voltage: - 53.5 V Max voltage range: - 52 to - 55 V				
	RPS power	Supported				
Maximum power consumption		S5600-26C: 170 W S5600-50C: 230 W S5600-26F: 170 W S5600-26C-PWR: 540 W S5600-50C-PWR: 600 W When with PoE power supply: S5600-26C-PWR: 540 W (DC input), 560 W (AC input) S5600-50C-PWR: 970 W (DC input), 640 W (AC input)				
MTBF (Years)		32.30	32.30	23.99	23.99	23.89
Noise parameter		S5600-26C: 50.8 dBA S5600-50C: 51.4 dBA S5600-26F: 54.6 dBA S5600-26C-PWR: 51.8 dBA S5600-50C-PWR: 52.2 dB				
MTTR (hours)		<2	<2	<2	<2	<2
Environment		Operation temperature: 0°C ~ 45°C Storage temperature: -40°C ~ 70°C Operating humidity: 5% to 85% non-condensing Relative humidity: 10% ~ 90%, non-condensing				

Industry standards support

I Ethernet Protocol

—IEEE802.3 10BASE-T Ethernet

- IEEE802.3u 100BASE-TX Fast Ethernet
- IEEE802.1Q Virtual bridged Local Area Network (VLAN)
- IEEE 802.1P QoS
- IEEE 802.1D-1998 Priority and Dynamic Multicast Filtering
- IEEE802.3x full duplex / flow control
- IEEE802.3p four levels of priority
- IEEE 802.1w Rapid Reconfiguration(Spanning Tree)
- IEEE802.1D Spanning Tree
- IEEE802.1S MSTP
- IEEE 802.1X Port-based authentication
- IEEE 802.1Z 1000BaseX Gigabit Ethernet
- IEEE 802.3ad Link Aggregation
- IEEE 802.3ae 10 Gigabit Ethernet standard

I Administration Protocol

- RFC 1812 (IPv4)
- RFC 826 (ARP)
- RFC 959 (FTP)
- RFC 783 (TFTP)
- RFC 768 (UDP)
- RFC 791 (IP)
- RFC 792 (ICMP)
- RFC 793 (TCP)
- RFC 2622 (Routing policy)
- RFC 2474 (Diffserv)
- RFC 2131 (DHCP)
- RFC 1058 (RIPv1)
- RFC 2338 (VRRP)
- RFC1723 (RIPv2)
- RFC 2328 (OSPF v2)
- RFC 2370 (OSPF Opaque LSA Option)
- RFC 1587 (OSPF NSSA option)
- RFC 1765 (OSPF Database Overflow)
- RFC 2362 (PIM-SM)
- RFC 1112 (IGMPv1)
- RFC 2236 (IGMPv2)
- RFC 2138 (Radius Authentication)

RFC 2139 (Radius Accounting)
RFC 2267 (Network Ingress Filtering)
RFC 1157 (SNMP)
RFC 1902 (SNMPv2)
RFC854 (Telnet)
RFC896 (Congestion control in IP/TCP network)
RFC925 (Multi-LAN ARP/Proxy ARP)
RFC1122 (Requirements for Internet Hosts)
RFC1156 (TCP/IP MIB)
RFC1212 (Concise MIB definitions)
RFC1213 (MIB for Network Management of TCP/IP based internets (MIB II))
RFC1757 (RMON (groups 1 2 3 and 9))
RFC1901 (Community based SNMPv2)
RFC2573 (SNMPv3 Applications)
RFC2576 (Coexistence between SNMP V1, V2, V3)
RFC2597 (Assured Forwarding PHB group (partial support))
RFC2618 (Radius Authentication Client MIB)
RFC2620 (Radius Accounting MIB)
RFC2819 (Remote Network Monitoring MIB (group 1,2,3,9))
RFC2865 (Remote Authentication Dial In User Service)
RFC2869bis (Radius Support for Extensible Authentication Protocol (EAP))
RFC2932IP (Multicast Routing MIB)
RFC3046 (DHCP/BootP Relay)

Safety and Compliance

I Emissions / Agency Approvals

CISPR 22 Class A
FCC Part 15 Class A
EN 55022 Class A
ICES -003 Class A
VCCI Class A
AS/NZS 3548 Class A
EN 61000-3-2
EN 61000-3-3

I Immunity

Product conforms to:

EN 55024: 1998

EN 61000-4-2

EN 61000-4-3

EN 61000-4-4

EN 61000-4-5

EN 61000-4-6

EN 61000-4-11

I Safety Agency Certifications

UL 60950 3rd ed.

IEC 60950: 1999, corr. Feb. 2000; all national deviations

EN 60950: 2000, ZB and ZC deviations

CSA 22.2 No. 950 3rd ed., 1995

AS/NZS 60950:2000, Australia;

Typical Application

1. Application in the convergent layer of large enterprise/campus network

In a large enterprise or campus network, the S5600 series are located at the convergent layer. They are downlinked to layer 2 switches, such as S3000 series, and uplinked to a high-performance core layer switch through the 10GE or GE aggregation. These switches together provide a network-wide intranet solution that covers 10 gigabit-to-backbone and 100 Mbps-to-desktop.

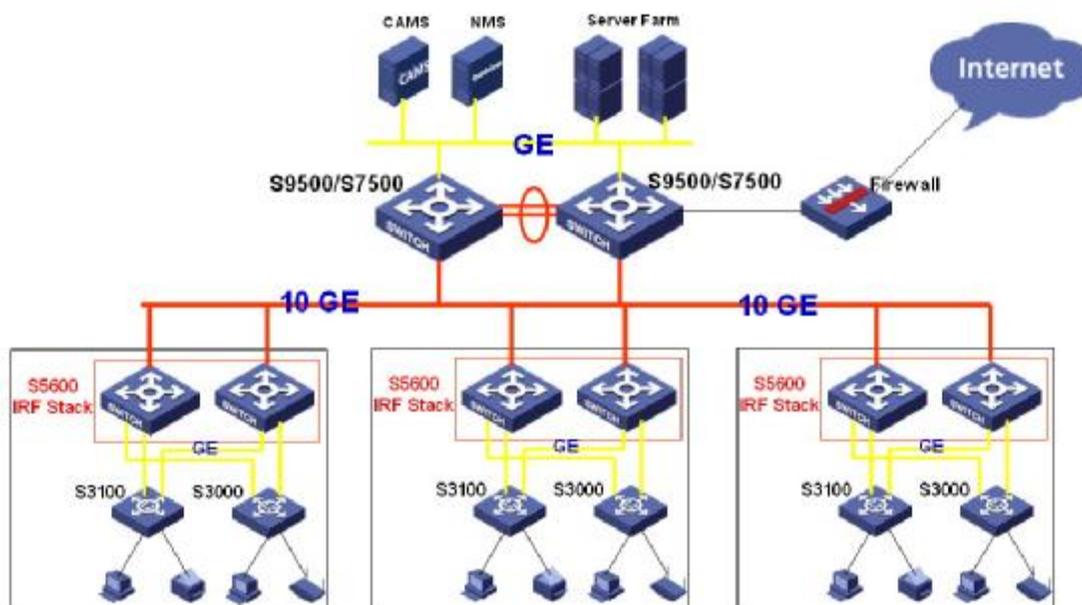


Figure 1: Application in the convergent layer of large enterprise/campus network

2. Application in the core layer of small and midsize enterprise network

S5600 series can serve as backbone switches in small and midsize enterprise networks. They are uplinked to the headquarters or other branches through routers. They can smoothly enlarge capacity with the IRF technology.

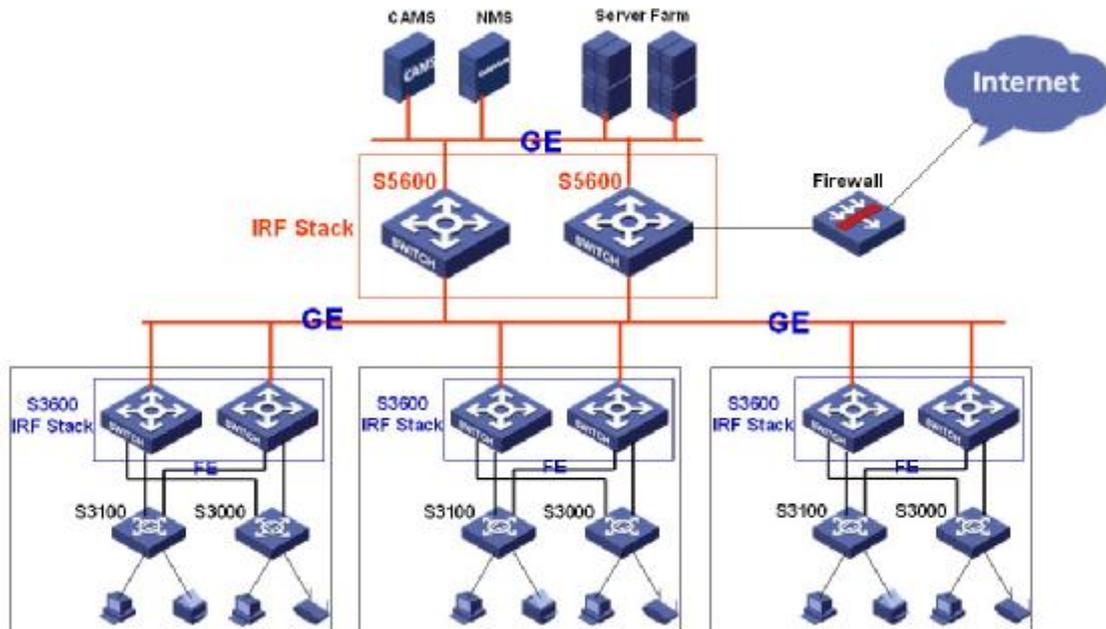


Figure 2: Application in the core layer of small and midsize enterprise network

3. Application in the Datacenter

Based on high-density GE ports, S5600 series can serve as core switches which connect the servers group in the datacenter. They can provide wire-speed GE connection for the servers, and can provide 10GE uplink to core layer. With IRF technology, S5600 can expand port capacity and switch capacity smoothly for further upgrading.

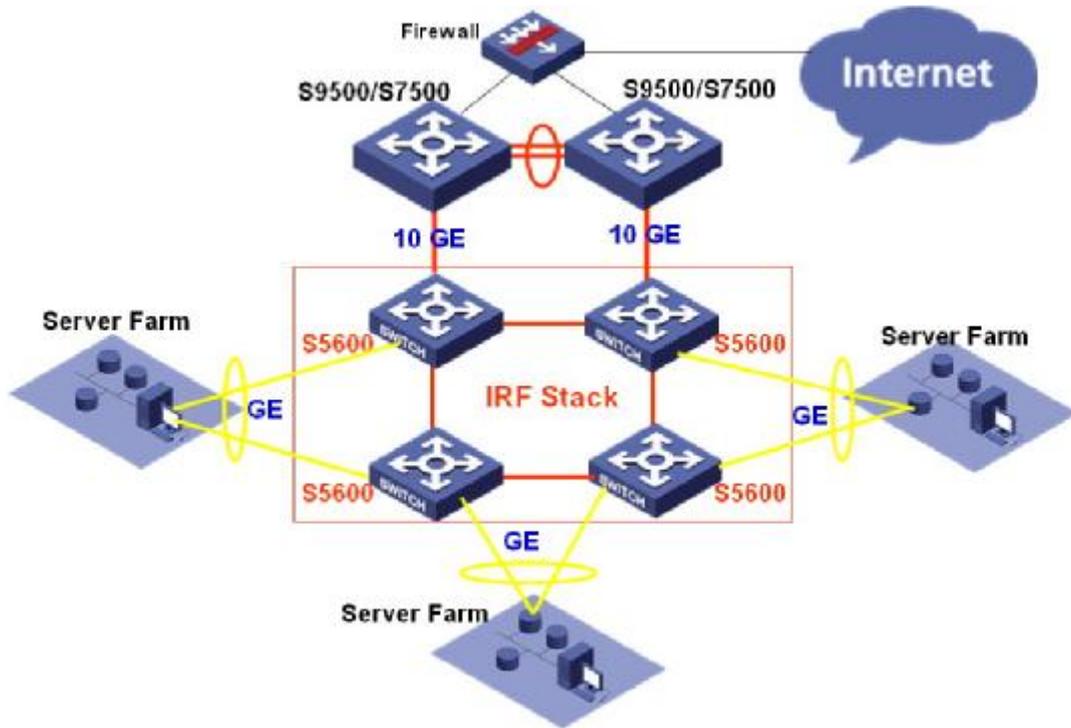


Figure 3: Application in the Datacenter

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