

H3C S7500 Series High-end Multi-service Switch

Product Overview

The H3C S7500 Series high-end multi-service switch (Figure 1) features high performance, high port density and high flexibility. It can be applied to the core layer of Enterprise networks, campus networks and education MAN, and to the convergence layer of carriers' IP MAN, and to the access layer of Data centers. With competitive prices and excellent performance, the S7500 holds the advantages over other products by enhancing network bandwidth, reducing customers' investment and significantly improving the company's solution and product competitiveness.

The H3C S7500 Series switch focuses on constructing an end-to-end network featuring low cost, high performance and with the capability to support abundant services. It can provide L2 and L3 wire-speed forwarding performance of large capacity, high density and modularization. It can provide super high-speed links for MAN, campus networks and data centers based on the 10G platform, It can also provide rich service functions, such as NAT/NetStream/PBR and PoE(Power over Ethernet) solution, a powerful QoS guarantee, complete security management mechanism and high level carrier-class reliability, designed to fully satisfy the requirements of high-end users for multiple services.

The H3C S7500 Series switch includes the following models: **S7502 (2 slots)**, **S7503 (4 slots)**, **S7506 (7 slots)** and **S7506R (8 slots)**.



Figure 1 H3C S7500 Series Switch

Product Features

H3C S7500 Series switch is a new generation switch released by Huawei-3COM. It supports a new chassis, powerful new super engines - the Salience™ III series, and new interface boards with abundant services. Especially, switch and route processor of S7502 is integrated in interface modules¹ without special engines. The H3C S7500 Series switch can provide many kinds of high density and wire-speed FE, GE and 10GE interface modules and can be flexibly configured based on network

¹ S7502 Main Control Unit includes LS8M1T12PEH, LS8M1P12TEH and all interface modules with XGBUS uplink. All GEBUS uplink interface modules only cooperate with LS8M1T12PEH or LS8M1P12TEH, and XGBUS uplink interface modules must be selected when S7502 Main Control Unit is XGBUS uplink.

requirement.

The most important is that the new generation S7500 switches are much cost effective: lower price, higher performance and more features, including:

Ø **Advanced System Structure**

The H3C S7500 Series introduces the distributed system architecture² and powerful ASIC chips for high-speed routing, as well the Crossbar technologies for packet switching. This creative combination greatly improves the forwarding performance and expansion capabilities of the routing switch. Embedded in the Main Control Units (MCU), the Crossbar switching fabric provides a switching capacity up to 768Gbps and works in the active/standby or load-sharing mode set by simple software configuration.

Ø **High Capacity, High Density, Wire-Speed Forwarding**

High Capacity----The H3C S7500 Series can provide 1.68Tbps backplane bandwidth and up to 768Gbps switching capacity and 432Mpps forwarding capabilities with Saliency™ III Plus engine.

High Density----The H3C S7500 Series can support ultimate 288 GE or 288 FE or 24 10-Gigabit wire-speed Ethernet interfaces totally.

Wire-Speed Forwarding----All the high density Gigabit (48-port) and 10-Gigabit (4-port) interface modules with XGBUS uplink can reach to L2/L3 wire-speed distributed forwarding in full loaded of S7503 or S7506R with new Saliency™ III Plus engine³.

Simply put, the H3C S7500 Series provides flexible interface choices from 10/100/1000 to 10 Gigabit Ethernet and combined interface boards to satisfy the customer's requirements for high density, high throughput and wire-speed forwarding.

² To support distributed forwarding, SRPU must be Saliency™ III or Saliency™ III Plus. It only supports distributed forwarding between interface modules with XGBUS uplink.

³ In this condition, S7506R should support load-balance.

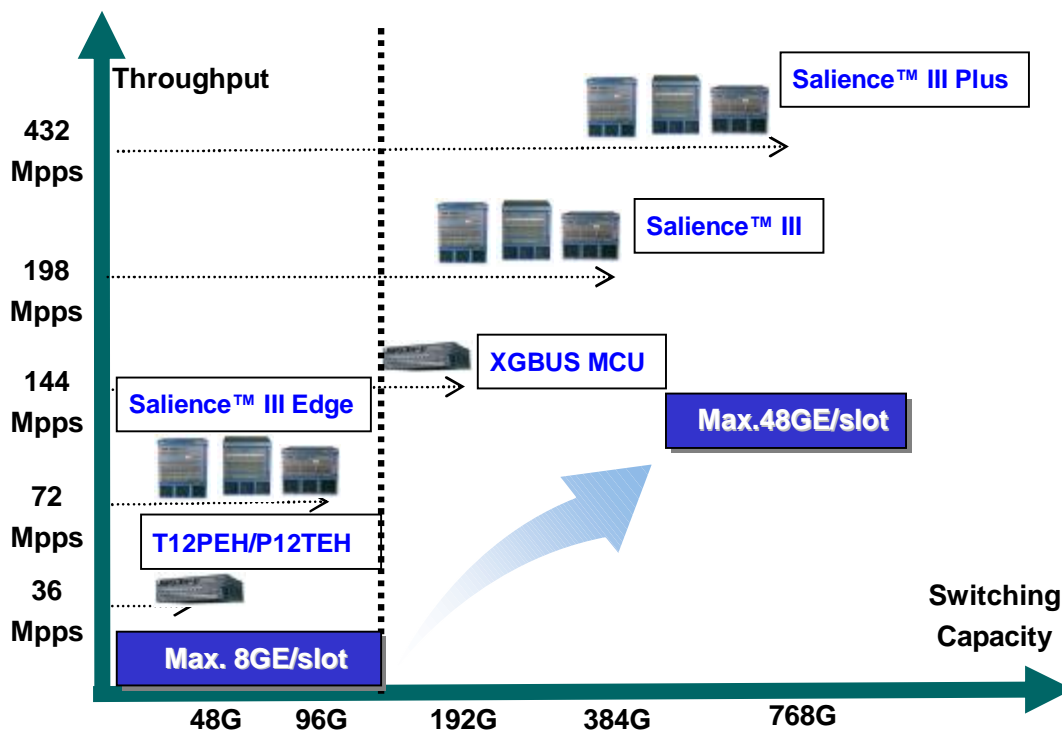


Figure 2 H3C S7500 Series Super Engines

Ø 10 Gigabit Wire-speed Interfaces Support

The new generation 10-Gigabit Ethernet provided by the S7500 Series has overcome the limitations of the early 10-Gigabit Ethernet.

- It provides up to four wire-speed 10-Gigabit ports per line card in fully loaded chassis with the new super engine - Salience™ III Plus.
- It provides ultimate to 12 wire-speed 10-Gigabit ports in the S7503 and 24 wire-speed 10-Gigabit ports in the S7506R.
- It supports QoS-ensured forwarding at wire speed as well as abundant ACLs, policy routing, and security features.

Ø Carrier-class Reliability Design

The H3C S7500 Series adopts an industry-leading distributed processing structure.

- The H3C S7506R supports dual Main Control Units and all boards of the S7500 Series are hot-swappable.
- The power system uses N+1 redundancy hot-backup
- The H3C S7500 Series switch supports STP/RSTP/MSTP and VRRP, which can meet rigorous carrier-class reliability requirements.
- The H3C S7500 Series switch supports cost-effective ring technology -- RRPP⁴, which can offer sub-second recovery from link failure in spite of numbers of nodes in the ring.

⁴ The optical interfaces on LS8M1T12PEH, LS8M1P12TEH, LS8M1GP8UBH, LS8M1GP48H-XG, LS8M1T16PH-XG, LS8M1T32PH-XG, LS8M1TGX2H-XG, LS8M1TGX4H-XG, Salience™ III Edge and Salience™ III can support RRPP currently, and the hardware CPLD version must be 005 or later.

- The H3C S7500 Series switch deploys Saliency™ III series engines with maximum switching capacity 768Gbps, with throughput as much as 432Mpps, while the backplane capacity reach 1.68Tbps.

Ø Hardware-based Intelligent Service

The Versatile Network Processing (VSNP) Service Interface Module of H3C S7500 series for Saliency™ III and Saliency™ III Plus provides enhanced features. It adds Layer 3 routing table and supports advanced hardware-based Network Address Translation (NAT) and NetStream as well as policy-based routing (PBR) features.

Network Address Translation----The H3C S7500 series can support 32 IP pools and ultimately 8,000 IP address. The Network Address Port Translation (NAPT) enables the mapping of multiple internal addresses to the same public address, thereby enabling multiple internal hosts be able to access external networks simultaneously. The Easy IP feature will ideal when only one public IP address is available or there are a limited number of internal hosts. It can protect equipments against TCP SYN and UDP port-scan attack.

NetStream----The VSNP Interface Module supports flow-based statistics monitoring. Data can be exported, collected and analyzed for network-traffic accounting, network monitoring, security alarming and network planning. It can support up to 300,000 stream statistics entries per board. Supposed 64 bytes per packet and single direction, the throughput will reach to 3.8Gbps and the forwarding rate is 5.7Mpps.

Policy Based Routing----The VSNP Service Interface Module introduces Network Processor (NP) to guarantee wire-speed forwarding while PBR is configured. It can implement logical usage of bandwidth, link backup and traffic marks. Supposed 64 bytes per packet, the throughput will reach to 3Gbps and the forwarding rate is 4.5Mpps.

Ø Smoothly Upgrade and Backward Compatibility of LPU

Newly released, the S7500 series currently has 4 models, 3 engines, and dozens of interface boards available. All are based on advanced architecture and can perform from access to aggregation and the core layer.

With multiple high speed GEBUS and XGBUS between Main Control Units and interface modules, smooth network upgrade is guaranteed from FE to GE and 10GE. As a result, TCO (Total Cost of Ownership) for customers is protected, and more choices are available for customers.

Ø Complete Security Mechanism

- The H3C S7500 series deploys the sophisticated 802.1x mode for access user authentication.
- Guest VLAN allows unauthenticated users to access more resources, without installing 802.1x client, or the user upgrades 802.1x client without authentication.
- Dynamic VLAN with RADIUS server implements the purpose of controlling the network resources that the users can access.

- HWTACACS or RADIUS authentication or local server enables centralized access control of switches and limits unauthorized users to modify the configurations.
- DHCP Security can be used to prevent illegal user from accessing network by binding IP and MAC address on the switch itself.
- DHCP snooping supports to record end users IP and MAC address, and DHCP snooping trust port can filter out DHCP reply packets from illegal DHCP server on untrustworthy port.
- DHCP option 82 can help service providers to trace where the end user comes from.
- The H3C S7500 series also support Secure Shell (SSH) protocol version 2, secure SNMPv3 NM protocol and MD5 encrypted authentication of OSPFv2, RIPv2 and BGPv4 packets.
- Salience™ III Super Engine of the H3C S7500 series offers superior per-port QoS features to help ensure that network traffic is classified, prioritized, and scheduled optimally to efficiently handle bandwidth-hungry multimedia, time-sensitive (voice), and mission-critical applications. Salience™ III Super Engine can classify, police, and mark incoming packets, allowing the administrator to differentiate between traffic flows and enforce policies. Sharing, shaping, and strict-priority configurations determine scheduling of egress traffic. Bandwidth control granularity is up to 64 Kbps.
- Adopting the advanced system ASIC chip design, the longest routing prefix mode and the packet-by-packet forwarding mode, the H3C S7500 series can effectively combat network viruses like Worm. Blaster, Red Code, etc.

Ø Excellent Power Over Ethernet (PoE) Solution

S7500 series switch supports IEEE 802.3af standard PoE as PSE(Power-sourcing Equipment) on 10/100BASE-TX or 10/100/1000 BASE-T ports.

- All new PoE line cards of S7500 series switch can support up to 48 simultaneous full-powered PoE port per slot at 15.4w. It also supports intelligent power management and delivers necessary power to PD (Powered Device). It could provide up to 2400W power supply with N+1 redundancy.
- In the network construction, it could provide power directly to any IEEE 802.3af-compliant end device to limit the number of point failure, such as WLAN Access Point device or IP Phone which enables Voice VLAN applications.
- With PoE and Voice VLAN technology, these innovative switches can provide the perfect solution for a converged voice and data network.

Ø EPON⁵ Solution

The H3C S7500 has launched Gigabit EPON series product based on IEEE 802.3ah standard. EPON series product includes Optical Line Terminal (OLT), Optical Network Unit (ONU) and Passive optical splitter (POS). It has abundant L2/L3 switching features and can be applied to an all FTTH⁶ and FTTB⁷ solution. EPON series product has unique advantages, such as OAM⁸, dynamic bandwidth assignment from 1Mbps to 1Gbps, and flexibly installed ONU. Those features simplify administration and maintenance of network, lower the cost of network ownership and economize the fiber resources.

⁵ EPON: Ethernet Passive Optical Network

⁶ FTTH: Fiber To The Home

⁷ FTTB: Fiber To The Building

⁸ OAM: Operation, administration and maintenance

The H3C S7500 can provide 44 Gigabit EPON interfaces at most and the maximum split ratio of POS is 1:32, so the whole chassis can access 1408 ONU. The transmission distance of EPON can be up to 20km.

Ø Abundant System Maintenance and Debugging Methods

- The H3C S7500 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 H3C S7500 Series support HWPING, a new network diagnostic tool used to test the performance of protocols operating on network and an enhanced alternative to the ping command.
- The H3C S7500 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 H3C S7500 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, it will put that port under control.

Specifications

Attribute	S7502	S7503	S7506	S7506R
Number of slots	2	4	7	8
Number of slots for interface modules	2	3	6	6
Salience™ series switch and route engines	Integrated in interface module ⁹	Salience™ III Edge Salience™ III Salience™ III Plus	Salience™ III Edge Salience™ III Salience™ III Plus	Salience™ III Edge Salience™ III Salience™ III Plus
switching capability	LS8M1T12PEH/ LS8M1P12TEH: 48Gbps Other MCUs: 192Gbps	Salience™ III Edge: 56Gbps Salience™ III: 152Gbps Salience™ III Plus: 312Gbps	Salience™ III Edge: 96Gbps Salience™ III: 192Gbps Salience™ III Plus: 336Gbps	Salience™ III Edge: 96Gbps Salience™ III: 384Gbps Salience™ III Plus: 768Gbps
throughput	LS8M1T12PEH/ LS8M1P12TEH:	Salience™ III Edge: 42Mpps	Salience™ III Edge: 72Mpps	Salience™ III Edge: 72Mpps

⁹ The switch and route engines of S7502 include LS8M1T12PEH, LS8M1P12TEH, LS8M1GP48H-XG, LS8M1T16PH-XG, LS8M1T32PH-XG, LS8M1TGX2H-XG, LS8M1TGX4H-XG.

Attribute	S7502	S7503	S7506	S7506R
	36Mpps Other MCUs: 144Mpps	Salience™ III: 90Mpps Salience™ III Plus: 216Mpps	Salience™ III: 126Mpps Salience™ III Plus: 216Mpps	Salience™ III: 198Mpps Salience™ III Plus: 432Mpps
Interface modules ¹⁰	GEBUS Uplink: LS8M1T12PEH: 12-port 10/100/1000BASE-T RJ-45 and 4-port 1000BASE-X SFP LS8M1P12TEH: 12-port 1000BASE-X SFP and 4-port 10/100/1000BASE-T RJ-45 LS8M1T12PH: 12-port 10/100/1000BASE-T RJ-45 and 4-port 1000BASE-X SFP LS8M1P12TH: 12-port 1000BASE-X SFP and 4-port 10/100/1000BASE-T RJ-45 LS8M1FT48EH: 48-port 10/100BASE-TX Ethernet Interface Module, RJ45 LS8M1FP48H: 48-port 100BASE-FX Ethernet Optical Interface Module, SFP Req. LS8M1GT20AH: 20-port 10/100/1000BASE-T Ethernet Interface Module, RJ45 LS8M1GT48H: 48-port 10/100/1000BASE-T Enhanced Ethernet Interface Module, RJ45 LS8M1GP20AH: 20-port 1000BASE-X Ethernet Optical Interface Module, SFP Req. LS8M1TGX1CH: 1-port 10GE Interface Module, Xenpak Req. LS8M1GT48AH: 48-port 10/100/1000BASE-T Ethernet Interface Module, RJ45 (PoE) LS8M1FT48FH: 48-port 10/100BASE-TX Ethernet Interface Module, RJ45 (PoE)			

¹⁰ All Salience™ III series engine can support GEBUS. But only Salience™ III and Salience™ III Plus engine can support XGBUS, this means that Salience™ III Edge engine can't cooperate with XGBUS uplink interface modules.

Attribute	S7502	S7503	S7506	S7506R
	<p>LS8M1GT8UEH¹¹: 8-port 10/100/1000BASE-T Ethernet Interface Module, RJ45</p> <p>LS8M1GP8UBH: 8-port 10/100/1000BASE-X Ethernet Optical Interface Module, RJ45</p> <p>XGBUS Uplink¹²:</p> <p>LS8M1GP48H-XG: 48-port 1000BASE-X Ethernet Optical Interface Module, SFP Req.</p> <p>LS8M1GT48BH-XG: 48-port 10/100/1000BASE-T Ethernet Interface Module, RJ45</p> <p>LS8M1T16PH-XG: 16-port 10/100/1000BASE-T RJ45 and 8-port 1000BASE-X SFP</p> <p>LS8M1T32PH-XG: 32-port 10/100/1000BASE-T RJ45 and 16-port 1000BASE-X SFP</p> <p>LS8M1TGX2H-XG: 2-port 10GE Interface Module, XFP Req.</p> <p>LS8M1TGX4H-XG: 4-port 10GE Interface Module, XFP Req.</p> <p>Intelligent Service Module:</p> <p>LS8M1VSNPH: Versatile Network Processing Service Module (PBR/NAT/NetStream) with XGBUS uplink¹³</p> <p>OLT Interface Module¹⁴:</p> <p>LS8M1PT8GAH: 8-Port Gigabit Passive Optical Line Interface Module (10km, SFF)</p> <p>LS8M1PT4GAH: 4-Port Gigabit Passive Optical Line Interface Module (10km, SFF)</p>			

¹¹ LS8M1GP8UBH and LS8M1GT8UEH only work with Saliency™ III and Saliency™ III Edge and can't be configured in the last slot of S7506 and S7506R.

¹² The interface modules with XGBUS uplink only work with Saliency™ III and Saliency™ III Plus, they can only be configured in the last two slot of S7503, S7506 and S7506R when the SRPU is Saliency™ III.

¹³ The Versatile Network Processing (VSNP) Service Interface Module only cooperates with Saliency™ III and Saliency™ III Plus engine. But when S7502 Main Control Unit is XGBUS uplink, it can support VSNP Service Interface Module also.

¹⁴ At present, EPON OLT modules only support GEBUS uplink, so they can compliant with LS8M1P12TEH or LS8M1T12PEH on S7502. For S7503, S7506, S7506R, LS8M1PT8GA is only compliant with Saliency III or Saliency III Edge and shouldn't be installed in the last slot of S7506, S7506R.

Attribute		S7502	S7503	S7506	S7506R
Layer 2 switching	Port-based VLAN (802.1Q)	YES(4K)			
	Protocol-based VLAN (IP, IPX and etc).	YES			
	MAC table number	16k/module;16K whole chassis	16k/module;16K whole chassis	16k/module;16K whole chassis	16k/module;16K whole chassis)
	IEEE802.3x flow control	YES			
	IEEE802.1p	YES			
	IEEE802.3ad link-aggregation	YES. MAX 8 ports/link group, MAX. 64 group			
	Link-aggregation across boards	YES ¹⁵ . MAX 8 ports/link group, MAX. 32 group			
	LACP	YES			
	GVRP/GMRP/GARP	YES			
	Port mirroring	YES ¹⁶ .			
	STP	YES			
	RSTP	YES			
	MSTP	YES (support 16 instances)			
	Broadcast storm suppression	YES			
	Q-in-Q	YES			
	Jumbo-frame	YES (support MAX 9216 bytes)			
	Middle frame	YES (support MAX 1600 bytes)			
Port auto negotiation	YES				
IGMP snooping (v1, v2)	YES				

¹⁵ 8GT(LS8M1GT8UEH), 8GP(LS8M1GP8UBH), GE ports on the Saliency™ III series engine and all the interface modules with XGBUS uplink support the link-aggregation across boards. These ports above can be aggregated together no matter they are GEBUS uplink or XGBUS uplink.

¹⁶ 8GT(LSM81GT8UE), 8GP(LS8M1GP8UBH), GE ports on the Saliency™ III series engine and all the interface modules with XGBUS uplink can be mirrored between boards. It can be mirrored between these ports above no matter they are GEBUS uplink or XGBUS uplink.

Attribute		S7502	S7503	S7506	S7506R
	L2 static unicast addresses	YES			
Layer 3 Switching	LPM(Longest prefix match)	YES			
	Static route	YES (5K)			
	RIPv1/v2, OSPF, IS-IS, BGP	RIPv1/v2: 1K OSPF: 64K IS-IS: 32K BGPv4: 32K			
	VRRP	YES (256 VRRP backup group per switch; each group supports 16 IP addresses)			
	ARP	YES (8K)			
	Local ARP proxy	YES			
	DHCP relay	YES			
	DHCP server	YES			
	SuperVLAN	YES (up to 64)			
	SubVLAN	YES (127 SubVLAN per SuperVLAN, totally 1024 SubVLAN per System)			
	IGMP (v1, v2)	YES			
	PIM-DM, PIM-SM	YES			
	ECMP	4			
	Switched virtual interfaces	1K			
	Traceroute	YES			
	IPX(software switched)	YES			
Multicast groups	YES (1K)				
Security	802.1x	2K users	3K users	4K users	4K users
	Guest VLAN	YES			
	ACL	3K			
	SSHv1.5/2.0	YES			

Attribute		S7502	S7503	S7506	S7506R
	RADIUS,HWTACACS	YES			
	Unicast MAC filter	YES			
	Per-port QoS configuration	YES			
QoS	ACL capacity	10-GE: 1000 rules/port GE: 100 rules/port FE: 200 rules shared by 8 ports			
	CAR	YES (granularity: 64kbps)			
	Queues per port	8			
	traffic classification	Strict Priority Queuing WRR (Weighted Round Robin) provided through bandwidth Supports priority queue based on VLAN port, IEEE802.1P Supports up to 8 FIFO, SP, WRR queues for each port Remarking of packets based on priority: <ul style="list-style-type: none"> • Auto classification • Selectable prioritization • DSCP priority • Type of Service (ToS) • IEEE 802.1p Class of Service (CoS) • IP precedence Local precedence: physical port, source/destination MAC address, VLAN information, Ethernet type, Layer 3 protocol, source/destination IP address, datagram type, IP Layer 4 protocol, IP Layer 4 ports Flows identified through Access Control Lists (ACLs)			
NAT	Number of IP addresses	32 IP pools and 8,000 IP addresses			
	NAPT	32 IP pools and 3 IP addresses per pool			
	Number of ISP	32			
	Concurrent connection number	100,000/s			
Policy Based Routing (PBR)	Throughput	3Gbps (64bytes/packet, ingress PBR)			
		3Gbps (64bytes/packet, egress PBR)			
	Forwarding rate	4.5Mpps (64bytes/packet, ingress PBR)			
		4.5Mpps (64bytes/packet, egress PBR)			
NetStream	Number of stream statistics entry per	300,000			

Attribute		S7502	S7503	S7506	S7506R
	interface module				
	Throughput	3.8Gbps(single direction, 64bytes/packet)			
	Forwarding rate	5.7Mpps(single direction, 64bytes/packet)			
	Format of output packet	V5/V8/V9			
System configuration/system management	Configuration through CLI Console, Telnet and modem	YES			
	FTP/TFTP	YES			
	Other	Provides system logs Provides user-level alarming Optional CF card			
	Management VLAN	YES			
Power distribution box	AC power distribution box with two inputs, each with a separate ON/OFF switch	110-120V/220-240V AC.; 50-60Hz; 9.0A/5.0A			
	DC power distribution box	Rated voltage: -48V to -60V DC Maximum tolerance: -36V to -72V DC			
PoE input voltage		-46V to -55V; 55.0 A			
Operating temperature		0°C to 45°C			
Operating humidity (non-condensing)		10% to 90%			
MTBF (Mean Time Between Failures)		218,000 h	185,000 h	160,000 h	221,000 h
MTTR (Mean Time to Repair)		≤1 h			
Weight (maximum in full configuration)		≤20kg	≤50kg	≤70kg	≤80kg
Maximum power consumption (all slots inserted with boards)		300W	350W	650W	800W
Physical dimensions (W × H × D)		436 ×130.5 × 400 mm (17.17 x 5.14 x 15.75 in.)	436 × 352.8 × 480 mm (17.2 x 13.9 x 18.9 in.)	436 × 486.2 × 480 mm (17.2 x 19.1 x 18.9 in.)	436 × 530.6 × 480 mm (17.2 x 20.9 x 18.9 in.)

Standards and Specifications Compliance

Attribute		Standards
IEEE		IEEE 802.3ae (10G Ethernet) IEEE 802.1D (STP) IEEE 802.1p (CoS) IEEE 802.1Q (VLANs) IEEE 802.1s (MSTP) IEEE 802.1w (RSTP) IEEE 802.1X (Security) IEEE 802.3ad (LACP) IEEE 802.3ae (10BASE-T) IEEE 802.3u (Fast Ethernet) IEEE 802.3x (Flow Control) IEEE 802.3z (Gigabit Ethernet) IEEE 802.3af (PoE feature)
RFC	BGPv4	RFC1771 (BGPv4) RFC1772 (Application of the BGP) RFC1965 (BGPv4 autonomous system confederations) RFC1997 (Communities attribute) RFC1998 (PPP Gandalf FZA Compression Protocol) RFC2385 (Transmission Control Protocol (TCP) MD5 authentication for BGP) RFC2439 (Route flap dampening) RFC2796 (Route reflection) RFC1657 (Definitions of Managed Objects for BGPv4)
	OSPFv2	RFC2328 (OSPF v2) RFC1587 (OSPF NSSA) RFC2370 (OSPF opaque link-state advertisement (LSA) option) RFC1850 (OSPF v2 Management Information Base (MIB), traps)
	IS-IS	ISO10589 (IS-IS) RFC1195 (IS-IS) RFC2973 (IS-IS mesh groups)
	RIP	RFC1058 (RIP v1) RFC1723 (RIP v2) RFC2453 (RIP v2) RFC2083 (PNG (Portable Network Graphics) Specification Version)
	IP General	RFC791 (IP) RFC792 (ICMP) RFC793 (TCP) RFC768 (UDP) RFC826 (ARP) RFC783 (TFTP)

	<p>RFC854 (Telnet)</p> <p>RFC894 (IP Over Ethernet)</p> <p>RFC950 (Internet Standard Subnetting Procedure)</p> <p>RFC959 (FTP)</p> <p>RFC1141 (Incremental updating of the Internet checksum)</p> <p>RFC1122 (Requirements for Internet Hosts -Communication Layers)</p> <p>RFC1256 (ICMP Router Discovery Messages)</p> <p>RFC1393 (Trace route Using an IP Option)</p> <p>RFC 1812 (IPv4)</p> <p>RFC 2338 (VRRP)</p> <p>RFC 2787 (Definitions of Managed Objects for VRRP)</p> <p>RFC 951, 1542 (BOOTP)</p> <p>RFC 2474 (Diffserv)</p> <p>RFC 2131 (DHCP)</p> <p>RFC 2132 (DHCP and BOOTP Extension)</p> <p>RFC2280 (Routing Policy Specification Language (RPSL))</p> <p>RFC1305 (NTPv3)</p> <p>RFC1157 (SNMP)</p> <p>RFC857 (Telnet Echo Option)</p> <p>RFC858 (Telnet Suppress Go Ahead Option)</p> <p>RFC1093 (NSFNET routing architecture)</p> <p>RFC 2138 (Radius Authentication)</p> <p>RFC 2139 (Radius Accounting)</p> <p>RFC1492 (TACACS)</p> <p>RFC 1518, 1519 (CIDR)</p> <p>RFC 2622 (Routing policy)</p> <p>RFC 2338 (VRRP)</p>
IP Multicast	<p>RFC 1112 (Host extensions for IP multicasting)</p> <p>RFC 2236 (Internet Group Management Protocol, Version 2)</p> <p>RFC 2715 (Interoperability Rules for Multicast Routing Protocols)</p> <p>RFC 2362 (PIM-SM)</p> <p>Draft (PIM-DM:draft-ietf-idmr-pim-dm-06)</p> <p>RFC 3618 (MSDP)</p>
QoS	<p>RFC 2267 (Network Ingress Filtering)</p> <p>RFC2474 (Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers)</p> <p>RFC2475 (Architecture for Differentiated Service)</p> <p>RFC3168 (The Addition of Explicit Congestion Notification (ECN) to IP)</p>
NAT	<p>RFC 1631 (Network Address Translation)</p> <p>RFC 2663 (NAT Terminology and Considerations)</p>
NetStream	<p>RFC 3954 (Cisco Systems NetFlow Services Export Version 9)</p>

	SNMP	<p>RFC 1493 (Bridge MIB) RFC 2674 (VLAN MIB Extension) RFC 1573 (Private IF MIB) RFC 1213 (MIB II) RFC 1724 (RIP Version 2 MIB Extension) RFC 1850 (OSPF Version 2 MIB Extension) RFC 2787 (VRRP MIB) RFC 2618 (RADIUS Authentication Client MIB) RFC 2620 (RADIUS Accounting Client MIB) RFC 1155 (Structure and Mgmt Information (SMIv1)) RFC 1157 (SNMPv1/v2c) RFC 1213, 1573 (MIB II) RFC 1901-1907 (SNMPv2c, SMIv2 and Revised MIB-II) RFC 2271 (FrameWork) RFC 2578-2580 (SMIv2) RFC 2819 (RMON) RFC 2668 (IEEE 802.3 MAU MIB) RFC 2665 (Pause control) RFC 2233 (Interfaces MIB)</p>
ITU		<p>G.650 (4/97) (Definition and test methods for the relevant parameters of single-mode fibers) G.652 (4/97) (Characteristics of a single-mode optical fiber cable) G.661 (11/96) (Definition and test methods for the relevant generic parameters of optical fiber amplifiers) G.662 (7/95) (Generic characteristics of optical fiber amplifier devices and sub-systems) G.663 (10/96) (Application related aspects of optical fiber amplifier devices and sub-systems) G.671 (11/96) (Transmission characteristics of passive optical components) G.681 (10/96) (Functional characteristics of interoffice and long-haul line systems using optical amplifiers, including optical multiplexing) G.703(1998) (Physical/Electrical Characteristics of hierarchical digital interfaces) G.957(1999) (Optical interfaces for equipments and systems relating to the Synchronous Digital Hierarchy) G.958 (Digital line systems based on the synchronous digital hierarchy for use on optical fiber cables)</p>
ETS		ETS 300 019-2 1999
IEC		<p>IEC 1000 1995 IEC 297 1986</p>
EMC		<p>FCC Part 15 Class A EN 55022 Class A</p>

	ICES -003 Class A CISPR 22 Class A VCCI Class A AS/NZS 3548 Class A EN 55024 EN 61000-3-2 EN 61000-3-3 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-11 CISPR 24 Class A ETSI EN 300 386V1.3.2:2003
Safety	EN 60950:2000 EN 60825-1:1993+A1:1997 EN 60825-2:2000 UL 60950-1:2003, First Edition CSA C22.2 No. 60950-1-03 1st Ed. April 1, 2003 IEC 60950

Order Information

The H3C S7500 series is a high-end multi-service switch developed by Huawei-3Com. Users can purchase the chassis, power supplies and modules as required. Please check the S7500 Quick Configuration Manual for more information.

Table 1 H3C S7503 Host configurations

Name	Description	Quantity	Remark
Chassis configuration			
LS-7503-AC-XG-OVS	S7503 Ethernet Switch Chassis (AC 110/220V) with fan, 1 AC power and documents, support PoE and XGBUS, 2 power cord inputs, Comware incl.	1	Mandatory
LS-7503-DC-XG-OVS	S7503 Ethernet Switch Chassis (DC 48V) with fan, 1 DC power and documents, support PoE and XGBUS, 2 power cord inputs, Comware incl.	1	Mandatory
Cabinet configuration			
LS8Z3N68	Switch Router Rack 2200 (H) for S7500 (Optional)	0-1	Optional
LS8Z4N68	Switch Router Rack 1800 (H) for S7500 (Optional)	0-1	Optional
Power Supply Configuration			
LS8M1AC220	S7500 AC Power Supply Module, for S7503, S7506 and S7506R	0-1	Optional

PWR			
LS8M1DC48P WR	S7500 DC Power Supply Module, for S7503, S7506 and S7506R	0-1	Optional
Main Control Unit			
LS8M4SRPG H	S7503,S7506 and S7506R: Switch and Route Processing Module, Saliency III Edge-96GE with 4 1000BASE-X interface, SFP Req.	1	Mandatory
LS8M1SRPG H	S7503,S7506 and S7506R: Switch and Route Processing Module, Saliency III, with 4 1000BASE-X interface, SFP Req.	1	Mandatory
LS8M2SRPG H	S7503,S7506 and S7506R: Switch and Route Processing Module, Saliency III Plus	1	Mandatory
PoE Power module			
LS8M3POEP WRH	External PoE Power (220V-2500W, 110V-1250W) Rack (with 1 PoE PSU)	0-1	PoE Mandatory
LS8M1POEP WRH	PoE Power Supply Unit (220V-2500W, 110V-1250W) module	220V: 0-1 110V: 0-2	Optional

Table 2 H3C S7506 Host configurations

Name	Description	Quantity	Remark
Chassis configuration			
LS-7506-AC- XG-OVS	S7506 Ethernet Switch Chassis (AC 110/220V) with fan, 2 AC powers and documents, support PoE and XGBUS, 2 power cord inputs	1	Mandatory
LS-7506-DC- XG-OVS	S7506 Ethernet Switch Chassis (DC 48V) with fan, 2 DC powers and documents, support PoE and XGBUS, 2 power cord inputs	1	Mandatory
Cabinet configuration			
LS8Z3N68	Switch Router Rack 2200 (H) for S7500 (Optional)	0-1	Optional
LS8Z4N68	Switch Router Rack 1800 (H) for S7500 (Optional)	0-1	Optional
Power Supply Configuration			
LS8M1AC220 PWR	S7500 AC Power Supply Module, for S7503, S7506 and S7506R	0-1	Optional
LS8M1DC48P WR	S7500 DC Power Supply Module, for S7503, S7506 and S7506R	0-1	Optional
Main Control Unit			
LS8M4SRPG H	S7503,S7506 and S7506R: Switch and Route Processing Module, Saliency III Edge-96GE with 4 1000BASE-X interface, SFP Req.	1	Mandatory
LS8M1SRPG H	S7503,S7506 and S7506R: Switch and Route Processing Module, Saliency III, with 4 1000BASE-X interface, SFP Req.	1	Mandatory
LS8M2SRPG H	S7503,S7506 and S7506R: Switch and Route Processing Module, Saliency III Plus	1	Mandatory
Software License			

LIS-S7506	S7506 Comware Network Operating System (host software)	1	Mandatory
PoE Power module			
LS8M3POEP WRH	External PoE Power (220V-2500W, 110V-1250W) Rack (with 1 PoE PSU)	0-1	PoE Mandatory
LS8M1POEP WRH	PoE Power Supply Unit (220V-2500W, 110V-1250W) module	220V: 0-1 110V: 0-2	Optional

Table 3 H3C S7506R Host configurations

Name	Description	Quantity	Remark
Chassis configuration			
LS-7506R-AC -XG-OVS	S7506R Ethernet Switch Chassis (AC 110/220V) with fan, 2 AC powers and documents, support PoE and XGBUS, 2 power cord inputs	1	Mandatory
LS-7506R-DC -XG-OVS	S7506R Ethernet Switch Chassis (DC 48V) with fan, 2 DC powers and documents, support PoE and XGBUS, 2 power cord inputs	1	Mandatory
Cabinet configuration			
LS8Z3N68	Switch Router Rack 2200 (H) for S7500 (Optional)	0-1	Optional
LS8Z4N68	Switch Router Rack 1800 (H) for S7500 (Optional)	0-1	Optional
Power Supply Configuration			
LS8M1AC220 PWR	S7500 AC Power Supply Module, for S7503, S7506 and S7506R	0-1	Optional
LS8M1DC48P WR	S7500 DC Power Supply Module, for S7503, S7506 and S7506R	0-1	Optional
Main Control Unit			
LS8M4SRPG H	S7503,S7506 and S7506R: Switch and Route Processing Module, Saliency III Edge-96GE with 4 1000BASE-X interface, SFP Req.	1	Mandatory
LS8M1SRPG H	S7503,S7506 and S7506R: Switch and Route Processing Module, Saliency III, with 4 1000BASE-X interface, SFP Req.	1	Mandatory
LS8M2SRPG H	S7503,S7506 and S7506R: Switch and Route Processing Module, Saliency III Plus	1	Mandatory
Software License			
LIS-S7506R	S7506R Comware Network Operating System (host software)	1	Mandatory
PoE Power module			
LS8M3POEP WRH	External PoE Power (220V-2500W, 110V-1250W) Rack (with 1 PoE PSU)	0-1	PoE Mandatory
LS8M1POEP WRH	PoE Power Supply Unit (220V-2500W, 110V-1250W) module	220V: 0-1 110V: 0-2	Optional

Table 4 H3C S7502 Host configurations

Name	Description	Quantity	Remark
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Chassis configuration			
LS-7502-XG-OVS	S7502 Ethernet Switch Chassis with fan and documents, support PoE and XGBUS, 2 power cord inputs, no power module, Comware incl.	1	Mandatory
Cabinet configuration			
LS8Z3N68	Switch Router Rack 2200 (H) for S7500 (Optional)	0-1	Optional
LS8Z4N68	Switch Router Rack 1800 (H) for S7500 (Optional)	0-1	Optional
Power Supply Configuration			
LS8M3AC220 PWR	S7502 AC Power Supply Module, only for S7502	1-2	Mandatory
LS8M2DC48P WR	S7502 DC Power Supply Module, only for S7502	1-2	Mandatory
Main Control Unit			
GEBUS uplink			
LS8M1T12PE H	S7502 Switch and Route Processing Module with 12-port 10/100/1000BASE-T RJ-45 and 4-port 1000BASE-X SFP	1	Mandatory
LS8M1P12TE H	S7502 Switch and Route Processing Module with 12-port 1000BASE-X SFP and 4-port 10/100/1000BASE-T RJ-45	1	Mandatory
XGBUS uplink			
LS8M1GP48 H-XG	S7500 48-port 1000BASE-X Ethernet Optical Interface Module with XGBUS uplink, SFP Req.	1	Mandatory
LS8M1GT48B H-XG	S7500 48-port 10/100/1000BASE-T Ethernet Interface Module with XGBUS uplink, RJ45	1	Mandatory
LS8M1T16PH -XG	S7500 16-port 10/100/1000BASE-T RJ45 and 8-port 1000BASE-X SFP with XGBUS uplink	1	Mandatory
LS8M1T32H-XG	S7500 32-port 10/100/1000BASE-T RJ45 and 16-port 1000BASE-X SFP with XGBUS uplink	1	Mandatory
LS8M1TGX2 H-XG	S7500 2-port 10GE Interface Module with XGBUS uplink, XFP Req.	1	Mandatory
LS8M1TGX4 H-XG	S7500 4-port 10GE Interface Module with XGBUS uplink, XFP Req.	1	Mandatory
PoE Power module			
LS8M3POEP WRH	External PoE Power (220V-2500W, 110V-1250W) Rack (with 1 PoE PSU)	0-1	PoE Mandatory
LS8M1POEP WRH	PoE Power Supply Unit (220V-2500W, 110V-1250W) module	0-1	Optional

Table 5 S7500 Optional interface module and service module configurations

Name	Description	Quantity				Remark
		S7502	S7503	S7506	S7506R	
FE interface modules						
LS8M1FT48E	S7500 48-port 10/100BASE-TX	0-1	0-3	0-6	0-6	Optional

H	Ethernet Interface Module, RJ45						
LS8M1FP48H	S7500 48-port 100BASE-FX Ethernet Optical Interface Module, SFP Req.	0-1	0-3	0-6	0-6	Optional	
GE interface modules							
GEBUS uplink							
LS8M1GT20A H	S7500 Enhanced 20-port 10/100/1000BASE-T Ethernet Interface Module, RJ45	0-1	0-3	0-6	0-6	Optional	
LS8M1GT48H	S7500 48-port 10/100/1000BASE-T Enhanced Ethernet Interface Module, RJ45	0-1	0-3	0-6	0-6	Optional	
LS8M1GP20A H	S7500 Enhanced 20-port 1000BASE-X Ethernet Optical Interface Module, SFP Req.	0-1	0-3	0-6	0-6	Optional	
LS8M1GP8U BH	S7500 8-port 1000BASE-X Ethernet Optical Interface Module, SFP Req.	0-1	0-3	0-5	0-5	Not work with SIII Plus	
LS8M1GT8U EH	S7500 8-port 10/100/1000BASE-T Ethernet Interface Module, RJ45	0-1	0-3	0-5	0-5	Not work with SIII Plus	
XGBUS uplink							
LS8M1GP48 H-XG	S7500 48-port 1000BASE-X Ethernet Optical Interface Module with XGBUS uplink, SFP Req.	0-1	SIII: 0-2; SIII Plus: 0-3	SIII: 0-2; SIII Plus: 0-6	SIII: 0-2; SIII Plus: 0-6	Optional	
LS8M1GT48B H-XG	S7500 48-port 10/100/1000BASE-T Ethernet Interface Module with XGBUS uplink, RJ45	0-1	SIII 17 : 0-2; SIII Plus 18 : 0-3	SIII: 0-2; SIII Plus: 0-6	SIII: 0-2; SIII Plus: 0-6	Optional	
Optical & Electrical Hybrid GE interface modules							
GEBUS uplink							
LS8M1T12PH	S7500 12-port 10/100/1000BASE-T RJ45 and 4-port 1000BASE-X SFP	0-1	0-3	0-6	0-6	Optional	
LS8M1P12TH	S7500 12-port 1000BASE-X SFP and 4-port 10/100/1000BASE-T RJ45	0-1	0-3	0-6	0-6	Optional	
XGBUS uplink							
LS8M1T16PH	S7500 16-port 10/100/1000BASE-T	0-1	SIII:	SIII:	SIII:	Optional	

¹⁷ SIII: abbr. of Saliency III

¹⁸ SIII Plus: abbr. of Saliency III Plus

-XG	RJ45 and 8-port 1000BASE-X SFP with XGBUS uplink		0-2; SIII Plus: 0-3	0-2; SIII Plus: 0-6	0-2; SIII Plus: 0-6	
LS8M1T32PH -XG	S7500 32-port 10/100/1000BASE-T RJ45 and 16-port 1000BASE-X SFP with XGBUS uplink	0-1	SIII: 0-2; SIII Plus: 0-3	SIII: 0-2; SIII Plus: 0-6	SIII: 0-2; SIII Plus: 0-6	Optional
10GE interface modules						
GEBUS uplink						
LS8M1TGX1 CH	S7500 Enhanced 1-port 10GE Interface Module, Xenpak Req.	0-1	0-3	0-6	0-6	Optional
XGBUS uplink						
LS8M1TGX2 H-XG	S7500 2-port 10GE Interface Module with XGBUS uplink, XFP Req.	0-1	SIII: 0-2; SIII Plus: 0-3	SIII: 0-2; SIII Plus: 0-6	SIII: 0-2; SIII Plus: 0-6	Optional
LS8M1TGX4 H-XG	S7500 4-port 10GE Interface Module with XGBUS uplink, XFP Req.	0-1	SIII: 0-2; SIII Plus: 0-3	SIII: 0-2; SIII Plus: 0-6	SIII: 0-2; SIII Plus: 0-6	Optional
PoE interface modules						
LS8M1GT48A H	S7500 48-port 10/100/1000BASE-T Ethernet Interface Module, RJ45 (PoE)	0-1	0-3	0-6	0-6	Optional
LS8M1FT48F H	S7500 48-port 10/100BASE-TX Ethernet Interface Module, RJ45 (PoE)	0-1	0-3	0-6	0-6	Optional
Service module						
LS8M1VSNP H	S7500 Versatile Network Processing Service Module (PBR/NAT/NetStream) with XGBUS uplink	0-1	0-2	0-3	0-3	Optional

Table 6 S7500 EPON product configurations

Name	Description	Quantity				Remark
		S7502	S7503	S7506	S7506R	
EPON OLT interface modules						

LS8M1PT8G AH	8-Port Gigabit Passive Optical Line Interface Module (10km, SFF)	0-1	0-3	SIII Edge: 0-5; SIII: 0-5	SIII Edge: 0-5; SIII: 0-5	Optional, EPON upgrade package must be selected.
LS8M1PT4G AH	4-Port Gigabit Passive Optical Line Interface Module (10km, SFF)	0-1	0-3	0-6	0-6	Optional, EPON upgrade package must be selected.
EPON upgrade package						
LS8M1EPON SWPH	EPON Upgrade Package for Saliency III Series Switch and Route Processing Module, with a 512M Memory and documents	0	1	1	1-2	EPON Mandatory
LS8M1EUPH	EPON Upgrade Package for S7502, with Documents	1	0	0	0	EPON Mandatory
EPON ONU						
LS-7500-ET3 00-JAP	1-Port 10/100/1000BASE-T Ethernet Passive Optical Network Unit (10km, SFF) (JPN)	0+	0+	0+	0+	Optional, Only for Japan market
LS-7500-ET2 04-JAP	4-Port 10/100BASE-TX Fast Ethernet Passive Optical Network Unit (10km, SFF) (JPN)	0+	0+	0+	0+	Optional, Only for Japan market
S3100 EPON ONU						
LS6M1PU1S AH	1-Port 1000BASE-PX Passive Optical Interface Unit Module A (10km, SFF)	0+	0+	0+	0+	Optional, Only for S3100C series
EPON splitter module						
OC-1x32	Optical Splitter, 1*32, Single Mode, 1310nm&1520nm+/-40nm, SC/PC	0+	0+	0+	0+	Splitter ratio is 1:32
OC-1x2-5:95	Optical Splitter, 1*2/5:95 (Splitting Ratio), Single Mode, 1310nm&1520nm+/-40nm, SC/PC	0+	0+	0+	0+	Splitter ratio is 5:95
OC-1x2	Optical Splitter, 1*2, Single Mode, 1310nm&1520nm+/-40nm, SC/PC	0+	0+	0+	0+	Splitter ratio is 1:2
OC-1x4	Optical Splitter, 1*4, Single Mode, 1310nm&1520nm+/-40nm, SC/PC	0+	0+	0+	0+	Splitter ratio is 1:4
OC-1x16	Optical Splitter, 1*16, Single Mode, 1310nm&1520nm+/-40nm, SC/PC	0+	0+	0+	0+	Splitter ratio is 1:16
OC-1x32-U	Optical Splitter, 1*32, Single Mode, 1310nm&1520nm+/-40nm, SC/PC,	0+	0+	0+	0+	Splitter ratio is 1:32, used on

	1U					rack.
OC-1x8	Optical Splitter, 1*8, Single Mode, 1310nm&1520nm+/-40nm, SC/PC	0+	0+	0+	0+	Splitter ratio is 1:8
OC-1x32-P	Optical Splitter, 1*32, Single Mode, 1310nm&1520nm+/-40nm, Outdoor Application	0+	0+	0+	0+	Splitter ratio is 1:32, used outdoor
OC-1x16-P	Optical Splitter, 1*16, Single Mode, 1310nm&1520nm+/-40nm, Outdoor Application	0+	0+	0+	0+	Splitter ratio is 1:16, used outdoor

For more information on Huawei-3Com products, please contact: <http://www.huawei-3com.com>

Typical Applications

The H3C S7500 series high-end multi-service switch can be deployed as the core layer of Enterprise networks, campus networks and education MANs, the convergence layer of carriers' IP MANs, and the access layer of Data centers.

Y Application 1: Core layer of large Enterprise/Campus

With the popularization of the application of Gigabit-to-desktop, 10GE Ethernet technology will be widely used on the convergent layer and the backbone layer. In a large enterprise or campus network, H3C S7506R is usually located at the core layer. The application of 10GE wire-speed link between branches and Headquarters can guarantee the sufficient bandwidth. And configured with dual main controls units, dual switching units, multiple power supplies as redundant backups, as well as LACP on 10GE ports across boards in S7506R can avoid network interruption.

LS8M1TGX2H-XG and LS8M1TGX4H-XG interface modules all support LACP across boards.

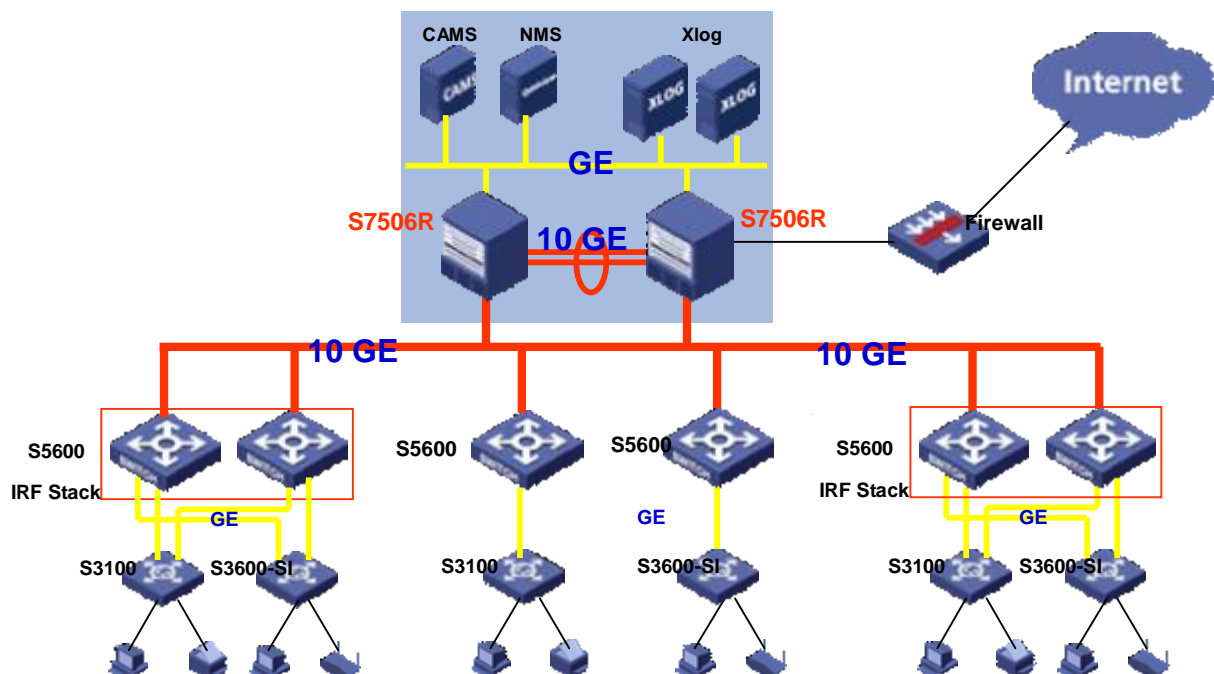


Figure 3 H3C S7500 Series For Core Layer of large Enterprise and Campus

Application 2: Aggregation layer of carriers' IP MAN

In IP MAN network, S7500 usually act as aggregation layers equipment. In this topology, S7502 can provide more flexible and cost effective configuration. It can offer FE, GE and 10GE interfaces in a compact chassis.

The S7500 can build a reliable network based on powerful QoS ability. It supports PBR/NAT/NetStream via LS8M1VSNPH interface module. The public IP address can be saved by configuring NAT feature on the S7500. By setting policy based routing features, important users can be allowed to use the high speed links. NetStream feature is integrated in LS8M1VSNPH interface module and can implement data exported, collected and analyzed with servers. It can help the network administrator adjust QoS and routing policy in order to solve potential problems in network.

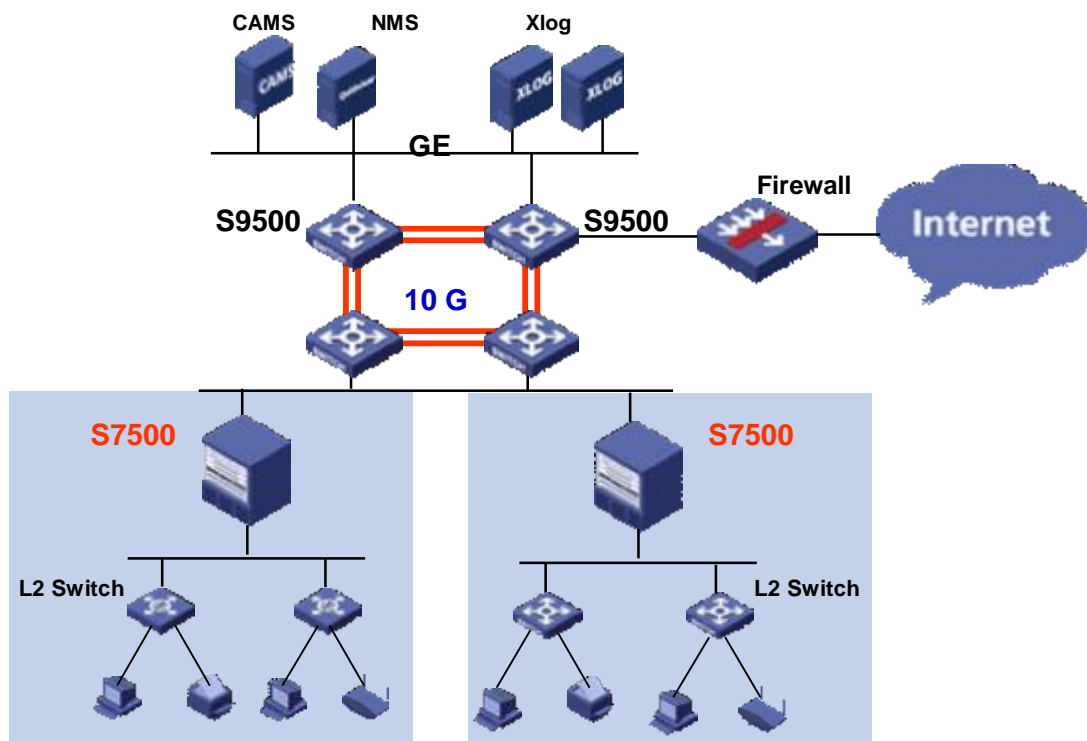


Figure 4 H3C S7500 Series for Aggregation Layer of Carriers' IP MAN

Application 3: GE-to-Desktop of access layer

With the cost of GE interface decreasing, it becomes possible and popular to realize GE-to-desktop.

The H3C S7500 series can provide a high density, wire-speed and cost-effective solution in the access

layer. The S7500 can support up to 292 GE interface in one chassis.

- **High density, non wire-speed and cost-effective solution**

The Saliency™ III Edge super engine is the most cost-effective selection as MCU. The GE electrical interface modules are compliant with Saliency™ III Edge include LS8M1GT48H and LS8M1GT48AH and high density SFP interface modules include LS8M1GP20AH. The LS8M1TGX1CH is recommended to build a 10GE uplink platform.

- **High density, wire-speed, high performance solution**

The H3C S7500 series focus on building a high density, wire-speed and high performance network of access layer. LS8M1GP48H-XG, LS8M1GT48BH-XG, LS8M1T16PH-XG and LS8M1T32PH-XG can help to offer multi flexible access mode. It can support Jumbo Frame. It's usually used to provide a non-block forwarding network in a data center.

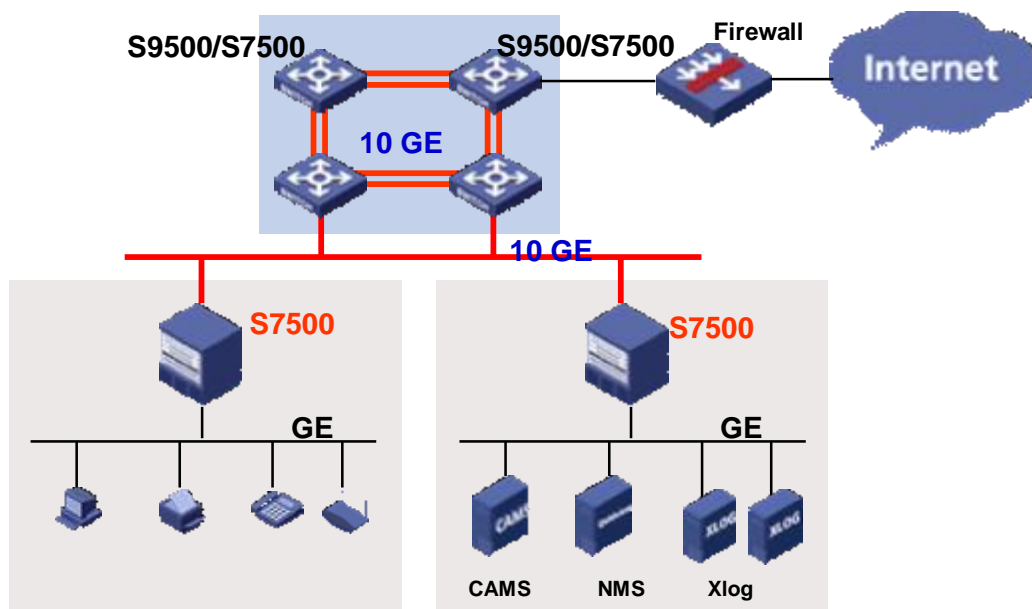


Figure 5 H3C S7500 Series for GE-to-Desktop of Access Layer

Y Application 4: EPON solution

In the IP MAN or large enterprise networks, the H3C S7500 series switch usually connects with core router or switch in the backbone by 10GE platform. And with the release of kinds of EPON product, the H3C S7500 can be used to deploy a high bandwidth, high security, easy management network. In addition, splitter with different split ratio can be selected for flexible and scalable network.

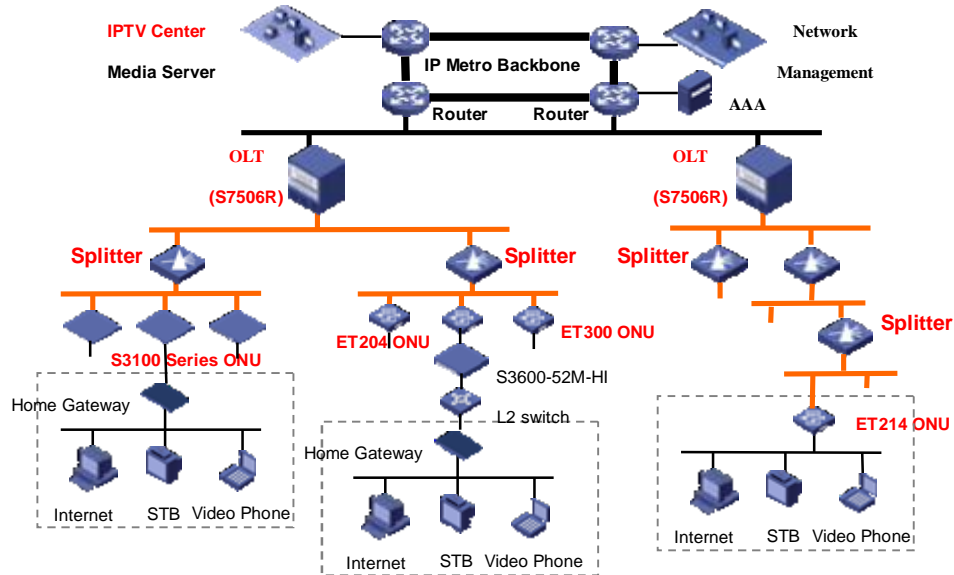


Figure 6 H3C S7500 Series for EPON Solution

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