

H3C S7500X Series Enterprise Core Switch

Release Date: Nov, 2021

New H3C Technologies Co., Limited



Overview

The H3C S7500X series switch is designed for the next-generation enterprise core networks. It adopts modular design, uses H3C's proprietary operating system Comware V7 and provides the following features:

- Triple times of per slot bandwidth and further enhanced chassis performance compared with existing 7500E V7
- Rich Layer 2 & Layer 3 functionalities
- MDC (Multitenant Devices Context), EVI (Ethernet Virtualization Interconnect), VXLAN and MACsec
- IRF2 (Intelligent Resilient Framework version 2)
- Convergence of MPLS, VPN, and multiple services
- MP-BGP based EVPN solution

The S7500X switch series includes S7503X, S7506X-POE, S7506X-S and S7510X-POE, meeting the need of different port density and performance requirements.



H3C S7500X Switch Series

Features

Wire speed 10G/40G/100G line card

- H3C S7500X switch series is the first of its kinds in the industry to support wire speed performance for high density 10G/40G/100G line cards and can meet the existing and future application requirements of enterprise network.
- Supports max. 48 port 10G wire speed interface line card
- Supports max. 12 port 40G wire speed interface line card
- Supports max. 4 port 100G wire speed interface line card

Virtualization technologies - IRF2

• IRF2 can virtualize up to four S7500X switches into one logical IRF fabric. IRF2 delivers the following benefits:



- High Availability (HA) Patented hot standby technology to provide data backup and non-stop forwarding on the control plane and data plane. This improves availability, performance, eliminates single-point failures and ensures service continuity.
- Distribution Multi-chassis link aggregation to enable load sharing and backup over multiple uplinks, improving redundancy and link utilization.
- Easy Management A single IP address to manage the whole IRF fabric, which simplifies device and topology management, improving operating efficiency, and lowering network maintenance cost.

Virtualization technologies – MDC Capability

- MDC virtualizes one S7500X switch into multiple logical switches, enabling multiple services to share one core switch.
- The 1:N virtualization maximizes switch utilization, reduces network TCO, and ensures isolation of services.

DC-oriented features

- EVI is a MAC-in-IP technology that provides Layer 2 connectivity between distant Layer 2 network sites across an IP routed network. It is used for connecting geographically dispersed sites of a virtualized large-scale data center that requires Layer 2 adjacency.
- VXLAN (Virtual Extensible LAN) VXLAN uses a MAC-in-UDP encapsulation method where the original Layer 2 package is added with a VXLAN header, and is then placed in a UDP-IP packet. With the help of MACin-UDP encapsulation, VXLAN tunnels Layer 2 network over Layer 3 network which provides two major benefits: higher scalability of Layer 2 segmentation and better utilization of available network paths.
- MP-BGP EVPN (Multiprotocol Border Gateway Protocol Ethernet Virtual Private Network) uses standard-based BGP protocol as the control plane for VXLAN overlay networks, providing BGP based VTEP auto peer discovery and end-host reachability information distribution. MP-BGP EVPN delivers many benefits, such as eliminating traffic flooding, reducing full mesh requirements between VTEPs via the introduction of BGP RR, achieving optimal flow based end to end load sharing and more.

Comprehensive MPLS/VPLS capability

- H3C S7500X switch series supports Multi-VRF function, which can be used as MCE equipment supporting L3 MPLS VPN and L2 MPLS VPN (Martini and Kompella). It also supports MPLS OAM function, which brings easier management and maintenance. Working with H3C intelligent Management Centre (iMC) MPLS VPN Manager allows easy MPLS deployment and maintenance.
- H3C S7500X switch series also supports VPLS, VLL, hierarchical VPLS and QINQ+VPLS access methods, providing end-to-end layer 2 VPN access solution.

High-performance IPv4/IPv6 service capabilities



H3C S7500X switch series comes with IPv4/IPv6 dual-stack platform that provides sophisticated IPv4/IPv6 solutions by supporting multiple tunnels, IPv4/IPv6 Layer 3 routing protocols, multicasting, and policy-based routing. The S7500X switch series is a mature commercial IPv6 product that has passed the IPv6 network access certification of the Chinese Ministry of Industry and Information Technology and the IPv6 Ready Phase II certification.

Hardware level encryption technology MACsec

 H3C S7500X switch series supports hardware level encryption technology MACsec (802.1ae), which is an industry-standard security technology that provides secure communication for all traffic on Ethernet links. Compared with traditional application based software encryption technology, MACsec provides point-to-point security on Ethernet links between directly connected nodes and is capable of identifying and preventing most security threats.

Multi-Giga support

• The line card LSQM1TGT24FD0 provides 24x10G RJ45 electrical interfaces, and the RJ45 interface is compatible with 1G/2.5G/5G/10G rate.

Features	S7503X	S7506X-POE S		S7506X-S	S7510X-POE
Switching capacity*	2.88Tbps	5.76Tbps		1.28Tbps	9.6Tbps
Forwarding capacity*	2160Mpps	4320Mpps		960Mpps	7200Mpps
MPU* slots	2	2	2		2
LPU slots	3	6	6		10
MPU Name	LSQM3SUPA0	LSQM1MPUSA0 LSQM1MPUSC0	LSQM1MPUS06S0	LSQM1MPUS06S0	LSQM1MPUS10B0 LSQM1MPUS10C0
MPU Processor	1.2GHz 4 cores	1GHz 2 cores	1.2GHz 4 cores	1.2GHz 4 cores	1GHz 2 cores
MPU Flash /SDRAM	Flash 4GB SDRAM 4GB	Flash 2GB SDRAM 4GB	Flash 4GB SDRAM 4GB	Flash 4GB SDRAM 4GB	Flash 2GB SDRAM 4GB
MPU Console Ports	1x RJ-45 1x USB console	1x RJ-45 1x USB console			1x RJ-45 1x USB console

Hardware Specifications

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Features	S7503X	S7506X-POE S		S7506X-S	S7510X-POE
MPU MGMT Ports	1x 10/100/1000M RJ- 45 1x 1000M SFP	2x 10/100/1000M RJ-45 2x 1000M SFP	1x 10/100/1000M RJ-45 1x 1000M SFP	1x 10/100/1000M RJ-45 1x 1000M SFP	2x 10/100/1000M RJ-45 2x 1000M SFP
Operating environment	Temperature: 0°C to 45 Humidity: 5% to 95% (r	, , , , , , , , , , , , , , , , , , ,			
Input voltage	100~240V AC; 50/60H	Hz; 16A			
Maximum power consumption	800W	1870W		1640W	2850W
Dimension (H x W x D)	216mm×436mm× 420mm (5U) 8.5 x 17.2 x 16.5 in	575mm×436mm×420mm (13U) 22.6 x 17.2 x 16.5 in		708mm×436mm×420m m (16U) 27.9 x 17.2 x 16.5 in	
Fully loaded weight (kg)	< 35 kg < 77.2 lb	< 75 kg < 165.3 lb		< 95 kg < 209.4 lb	
Availability	99.999%	99.999%		99.999%	
MTBF(yrs)	42.9	27.9		25.5	
MTTR(hrs)	1	1		1	

*The Switching and Forwarding capacity parameters are applicable for regions outside Greater China.

* MPU: Main Processing Unit integrating switching fabric

Software Specifications

Features	S7503X	S7506X-POE	S7506X-S	S7510X-POE		
	IEEE 802.1P(CoS priorit	у)				
	IEEE 802.1Q VLAN (up to 4094 VLANs)					
	IEEE 802.1ad (QinQ), se	IEEE 802.1ad (QinQ), selective QinQ and Vlan mapping				
	GVRP					
	DLDP					
Ethernet	LLDP					
	Static MAC configuration	ı				
	Limited MAC learning					
	Max. 288K MAC address					
	Port mirroring and traffic mirroring					



	Port aggregation, port isolation, and port mirroring
	IEEE 802.1D (STP)/802.1w (RSTP)/802.1s (MSTP)
	IEEE 802.3ad (dynamic link aggregation), static port aggregation, and multi-chassis link aggregation
	RRPP (Rapid Ring Protection Protocol)
	Jumbo frame
	SuperVLAN
	PVLAN
	Multicast VLAN
	DHCP snooping/DHCP Relay/DHCP client/DHCP server
	Broadcast/multicast/unknown unicast storm suppression
	Port based, Protocol based, Subnet-based and MAC based VLAN
	Max. 256K IPV4 routing entries
	Static routing, RIP v1/v2, OSPF, IS-IS, and BGP4
	IPv4/IPv6 ECMP
	VRRP
	IPv4/IPv6 Policy-based routing
	IPv4/IPv6 Routing policy
Routing	IPv4/IPv6 dual stack
	IPv6 static routing, RIPng, OSPFv3, IS-ISv6, and BGP4+
	VRRPv3
	Pingv6, Tenetv6, FTPv6, TFTPv6, DNSv6, and ICMPv6
	IPv4-to-IPv6 transition technologies, such as IPv6 manual tunnel, 6to4 tunnel, ISATAP tunnel, GRE tunnel,
	and auto IPv4-compatible IPv6 tunnel
	PIM-DM, PIM-SM, PIM-SSM, MSDP, MBGP, and Any-RP
	IGMP V1/V2/V3 and IGMP V1/V2/V3 snooping
N A 1/1 - /	IGMP Filter and IGMP Fast leave
Multicast	PIM6-DM, PIM6-SM, and PIM6-SSM
	MLD V1/V2 and MLD V1/V2 snooping
	Multicast policies and Multicast QoS
	Standard and extended ACLs
	Ingress and egress ACLs
ACL/QoS	VLAN ACLs
	Global ACLs
	Ingress/Egress CAR with 8K granularity



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IEEE 802.1x and IEEE 802.1x SERVER AAA/Radius		Portal authentication
AAA/Radius	Security	MAC authentication
		IEEE 802.1x and IEEE 802.1x SERVER
HWTACACS		AAA/Radius
		HWTACACS



	SSHv1.5/SSHv2
	Basic and advanced Access Control Lists for packet filtering
	OSPF, RIPv2, BGPv4 pain text and MD5 authentication
	IP address, VLAN ID, MAC address multiple binding combination
	uRPF
	Active/standby data backup
	CPU DoS Protection
	ARP Attack Protection
	IMC network management system
	Loading and upgrading through XModem/FTP/TFTP
	SNMP v1/v2/v3
	sFlow, NetStream
System	NQA (Network Quality Analysis)
management	RMON and groups 1, 2, 3 and 9
	NTP clocks
	Fault alarm and automatic fault recovery
	System logs
	Device status monitoring mechanism, including the CPU engine, backplane, chips and other key components
	1+1 redundancy for key components such as MPUs (MPU includes CPU + Switching Fabric)
	1+1 redundancy for power modules
	Passive backplane
	Hot swapping for all components
	Real-time data backup on active/standby MPUs
	CPU protection
	VRRP
	Hot patching
HA	NSR (Nonstop Routing)/GR (Graceful Restart) for OSFP/BGP/IS-IS/RSVP
	Port aggregation and multi-card link aggregation
	BFD for VRRP/BGP/IS-IS/OSPF/RSVP/static routing, with a failover detection time less than 50 milliseconds
	Ethernet OAM (802.1ag and 802.3ah)
	RRPP/ERPS
	DLDP
	VCT
	Smart-Link

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	ISSU (In-service Software Upgrade)
	FCC Part 15 Subpart B CLASS A
	ICES-003 CLASS A
	VCCI CLASS A
	CISPR 32 CLASS A
	EN 55032 CLASS A
EMC	AS/NZS CISPR32 CLASS A
	CISPR 24
	EN 55024
	EN 61000-3-2
	EN 61000-3-3
	ETSI EN 300 386
Environmental	RoHS
standards	REACH
compliance	WEEE
	UL 60950-1
	CAN/CSA C22.2 No 60950-1
	IEC 60950-1
Safety	EN 60950-1
	AS/NZS 60950-1
	FDA 21 CFR Subchapter J
	GB 4943.1

Ordering information

Product ID	Product Description
LS-7503X-GL	H3C S7503X Ethernet Switch Chassis
LS-7506X-PoE-GL	H3C S7506X Ethernet Switch Chassis,PoE
LS-7506X-S	H3C S7506X Ethernet Switch Chassis, S Version
LS-7510X-PoE-GL	H3C S7510X Ethernet Switch Chassis,PoE
LSQM3SUPA0	H3C S7503X Supervisor Engine Unit,Type A
LSQM1MPUSA0	H3C S7506X Main Processing Unit with Switching, Type A
LSQM1MPUS06S0	H3C S7506X Main Processing Unit with Switching, Type S
LSQM1MPUS10C0	H3C S7510X Main Processing Unit with Switching, Type C
LSQM1MPUSC0	H3C S7506X Main Processing Unit with Switching, Type C



LSQM1MPUS10B0	H3C S7510X Main Processing Unit with Switching, Type B
PSR650C-12A-GL	Ethernet Switch AC Power Supply Module,650W
PSR650C-12D-GL	Ethernet Switch DC Power Supply Module,650W
PSR2500-12D-GL	2500W DC Power Supply Module
PSR2500-12AHD-GL	2500W AC Power Supply Module, Supply HVDC
LSQM2AC300-GL	H3C PSR320A,AC Power Supply Module,300W
LSQM2AC650-GL	H3C PSR650A,AC Power Supply Module,650W
LSQM1DC650-GL	H3C PSR650D,DC Power Supply Module,650W
LSQM2AC1400-GL	H3C S7500E AC Power Supply Module,1400W
LSQM1AC2800-GL	H3C 2800W AC PoE Power Supply Module
LSQM2GP48SA0	48-Port GE Optical Interface Module(SFP,LC)(SA)
	24-Port GE Optical Interface(SFP,LC)+4-Port 10GE Optical Interface
LSQM2GP24TSSA0	Module(SFP+,LC)(SA)
LSQM2GT48SA0	48-Port 10/100/1000BASE-T Interface Module(RJ45)(SA)
LSQM4GV48SA0	48-Port 10/100/1000BASE-T Interface Module(RJ45)(SA),PoE Plus
LSQM2GP44TSSC0	44-Port GE Optical Interface(SFP,LC)+4-Port 10GE Optical Interface
-	Module(SFP+,LC)
LSQM2GP24TSSC0	24-Port GE Optical Interface(SFP,LC)+4-Port 10GE Optical Interface
	Module(SFP+,LC)
LSQM2GT24PTSSC0	24-Port 10/100/1000BASE-T Interface(RJ45)+20-Port GE Optical
	Interface(SFP,LC)+4-Port 10GE Optical Interface Module(SFP+,LC)
LSQM2GT24TSSC0	24-Port 10/100/1000BASE-T Interface(RJ45)+4-Port 10GE Optical
	Interface Module(SFP+,LC)
LSQM2GT48SC0	48-Port 10/100/1000BASE-T Interface Module(RJ45)
	H3C S7500E 16-Port 10G Ethernet Optical Interface
LSQM1TGS16FD0	Module(SFP+,LC)(FD)
	H3C S7500E 24-Port 10G Ethernet Optical Interface
LSQM1TGS24FD0	Module(SFP+,LC)(FD)
	H3C S7500E 48-Port 1000BASE Ethernet Optical Interface
LSQM1GP48FD0	Module(SFP,LC)(FD)
	H3C S7500E 40-Port 1000BASE Ethernet Optical Interface (SFP,LC)+8-
LSQM1GP40TS8FD0	Port 10G Ethernet Optical Interface Module(SFP+,LC)(FD)
	H3C S7500E 48-Port 1000BASE-T Ethernet Copper Interface
LSQM1GT48FD0	Module(RJ45)(FD)
	H3C S7500E,24-Port 10G Ethernet Optical Interfaces(SFP+,LC)+ 2-Port
LSQM1TGS24QSFD0	40G/1-Port 100G Ethernet Optical Interface Module(QSFP28)(FD)
	H3C S7500E 24-Port 10GBASE-T Ethernet Copper Interface
LSQM1TGT24FD0	Module(RJ45)(FD)



	H3C S7500E 12-Port 40G/4-Port 100G Ethernet Optical Interface
LSQM1CQGS12SG0	Module(QSFP28)(SG)
LSQM2TGS48SG0	H3C S7500E 48-Port 10G Ethernet Optical Interface
LSQIVI210340300	Module(SFP+,LC)(SG)
LSQM1QGS24RSG0	H3C S7500E 24-Port 40G Ethernet Optical Interface Module(QSFP+)(SG)
LSQM1TGS48RFE0	H3C S7500E 48-Port 10G Ethernet Optical Interface
LSQIVITI GS40KFEU	Module(SFP+,LC)(FE)
LSQM1CGS2FE0	H3C S7500E 2-Port 100G Ethernet Optical Interface Module(QSFP28)(FE)

New H3C Technologies Co., Limited



The Leader in Digital Solutions

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