

H3C S5120V2-LI Gigabit Access Switch Series

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Product Overview

H3C S5120V2-LI is the latest development of Gigabit Layer 2 access switch. It's the second generation intelligent managed switches designed for networks requiring high performance, high port density and easy to use.

H3C S5120V2-LI series switch offers Gigabit connectivity with10/100/1000 autosensing ports and SFP optical uplink ports.

H3C S5120V2-LI series switch includes eight models as follows:

- + S5120V2-10P-LI: 8 *10/100/1000TX+ 2*SFP
- + S5120V2-20P-LI: 16*10/100/1000TX+ 4*SFP
- + S5120V2-28P-LI: 24 *10/100/1000TX+ 4*SFP
- + S5120V2-52P-LI: 48*10/100/1000TX+ 4*SFP
- + S5120V2-10P-PWR-LI: 8 *10/100/1000TX+ 2*SFP
- + S5120V2-28P-PWR-LI: 24 *10/100/1000TX+ 4*SFP
- + S5120V2-28P-HPWR-LI: 24*10/100/1000 BASE-T + 4*SFP + 4*10/100/1000 BASE-T COMBO
- + S5120V2-52P-PWR-LI: 48*10/100/1000TX+ 4*SFP





Features and benefits

Abundant service capabilities

H3C S5120V2-LI switch series supports Internet broadband access, offers Gigabit access and 10G uplink for small to medium sized enterprises. It supports rich features such as Jumbo Frame, 802.1X, MAC authentication, Port security, LACP, 4K VLAN, 16K MAC and Black Hole MAC, etc. and abundant functions such as port-based priority mapping of layer 2 and layer 3, port-based mirror, redirection, port isolation, access control, port speed limit and rich IPV6 features, etc.

Intelligent Resilient Framework 2 (IRF2)

H3C S5120V2-LI switch series is pre-built with Intelligent Resilient Framework 2 (IRF2). IRF2 provides the following benefits:

- + High scalability: With IRF2, plug-n-play device aggregation can be achieved by adding one or more switches into the IRF2 stack and enabling IRF2 stacking on the new device. New devices can be managed with a single IP, and upgraded at the same time to reduce network expansion cost.
- + High reliability: The IRF2 patented 1: N backup technology allows each slave device in the IRF2 stack to serve as the backup of the master, creating control and data link redundancy, as well as uninterrupted layer-3 forwarding. This improves the reliability, avoids unplanned business downtime and serves to improve overall performance. When the master device fails, traffic remains uninterrupted.
- + Load balancing: IRF2 supports cross-device link aggregation, upstream and downstream can be connected to more than one physical link, which creates another layer of network redundancy and boosts the network resource utilization.

Availability: H3C Implements IRF2 through standard Gigabit Ethernet (1GE) ports or Ten Gigabit Ethernet (10GE) ports which allocates bandwidth for business and application access and reasonably splits local traffic and upstream traffic. IRF2 rules not only able to obey within and across the rack, but also across the LAN.

Comprehensive security control policies

+ H3C S5120V2-LI switch series supports innovative single-port multi-authentication function, the access authentication modes supported by different clients are different. For example, some clients can only perform MAC addresses Authentication (such as the printer terminal), and some user host for 802.1X authentication, and some user hosts only want to access through the Web portal authentication. In order to flexibly adapt to the multi-authentication requirements of the network environment, the S5120V2-LI switch series support single-port multi-authentication unified deployment.



- + ARP attack and ARP virus are major threats to LAN security, so the S5120V2-LI switch series comes with diverse ARP protection functions such as ARP Detection to challenge the legitimacy of client, validate the ARP packets, and set a speed limit for ARP to prevent ARP swarm attacks from targeting CPU.
- + H3C S5120V2-LI switch series support EAD (End User Admission Domination) function. Once working with the iMC (intelligent Management Centre) system, EAD integrates terminal security policies, such as anti-virus and patch update, into network access control and access right control policies to form a cooperative security system. By checking, isolating, updating, managing, and monitoring access terminals, EAD changes passive, single point network protection to active, comprehensive network protection, and changes separate management to centralized management, enhancing the network capability for preventing viruses, worms, and new threats.

Abundant QoS policies

The S5120V2-LI switch series supports packet filtering at Layer 2 through Layer 4, and traffic classification based on source MAC addresses, destination MAC addresses, source IP addresses, destination IP addresses, TCP/UDP port numbers, protocol types, and VLANs. It supports flexible queue scheduling algorithms based on ports and queues, including strict priority (SP), weighted round Robin (WRR) and SP+WRR. The S5120V2-LI switch series enables committed access rate (CAR) with the minimum granularity of 8 kbps. It supports port mirroring in the outbound and inbound directions, to monitor the packets on the specific ports, and to mirror the packets to the monitor port for network detection and troubleshooting.

Excellent manageability

+ The H3C S5120V2-LI switch series makes switch management with ease with the support of SNMPv1/v2/v3, which can be managed by NM platforms, such as Open View and iMC. With CLI and Telnet switch management is made easier. And with SSH 2.0 encryption, switch management security is enhanced.

Rich Layer 3 routing features

H3C S5120V2-LI switch series supports static routing, RIP, RIPng, OSPF V1/V2/V3.



Specifications

Item	S5120V2 -10P-LI	S5120V2 -20P-LI	S5120V2 -28P-LI	S5120V2 -52P-LI	S5120V2 -10P- PWR-LI	S5120V2 -28P- PWR-LI	S5120V2 -28P- HPWR-LI	S5120V2 -52P- PWR-LI	
Switching capacity	20Gbps	40Gbps	56Gbps	104Gbps	20Gbps	56Gbps	56Gbps	104Gbps	
Packet forwarding rate	15Mpps	30Mpps		77.4Mpps		41.7Mpps	41.7Mpps		
Dimensions (H $ imes$ W $ imes$ D)	$\begin{array}{ccc} 43.6 & \times \\ 266 & \times \\ 161 \text{ mm} \end{array}$		43.6 × 440 × 160 mm	43.6 × 440 × 230 mm		$\begin{array}{ccc} 43.6 & \times \\ 440 & \times \\ 260 & \text{mm} \end{array}$		43.6 × 440 × 260 mm	
Weight	≤ 1.5kg	≤ 2kg	≤ 2.5kg	≤ 3.5kg	≤ 3kg	≤ 4kg	≤ 4.5kg	≤ 6kg	
Console ports	1		•		•	•		•	
Fixed ports	8*10/100 /1000TX	16*10/10 0/1000TX	24*10/10 0/1000TX	48*10/10 0/1000TX	/1000TX	24*10/10 0/1000TX	24*10/10 0/1000TX +4*10/10 0/1000 BASE-T Combo	48*10/10 0/1000TX	
	+2*SFP	+4*SFP	+4*SFP	+4*SFP	+2*SFP	+4*SFP	+ 4*SFP	+4*SFP	
Input voltage range	100 VAC t	o 240 VAC	@ 50 Hz/6	0 Hz			Hz	0V@ 50/60	
	MIN. 7W	MIN. OW	MIN. OW	MIN. 10W	MIN. 19W	MIN. 10W	DC: -48V~		
	MIN: 7W MAX: 12W	MIN: 9W MAX: 19W	MIN: 9W MAX: 23W	MIN: 18W MAX: 41W	MIN: 13W MAX:153W (PoE	MIN: 19W MAX: 240W (PoE	MIN: AC: 23W	MIN: AC: 36W	
Power consumption					125W)	185W)	DC: 16W MAX: AC: 446W (PoE 370W) DC: 790W(PoE 740W)	DC: 26W MAX: AC: 467W (PoE 370W) DC: 807W(PoE 740W)	
Operating temperature	0°C to 4	5°C		<u>!</u>		<u>. </u>	14011)	740#)	
Operating humidity	10% RH to 95% RH, non-condensing								
Stacking			ent Framew		F2)				
	1G/10GE port aggregation								
Link aggregation	Static aggregation								
Link aggregation	Dynamic aggregation								
			aggregatio	n					
Jumbo frame	Supported								
MAC address table		Blackhole MAC address							
		ing limit							
Flow control			l and half	-duplex ba	ackpressur	e			
	Port-base QinQ	U VLAN							
VLAN	Voice VLAN								
	MAC VLAN								
	ARP Detec	tion							
ARP	ARP speed	limit							
ND	Supported								
VLAN virtual port	Supported								
	DHCP Client								
DHCP	DHCP Snooping DHCP Relay DHCP Server DHCP Option82								
DNS	Static and Dynamic DNS IPV4 and IPV6								
Routing protocols	IPV4/IPV6 static routing RIP/RIPng, OSPFV1/V2/V3								
Strom suppression	_	-	based on poased on P		idth perce	ntage			



	STP/RSTP/MSTP					
Layer 2 ring network protocol						
	STP Root Protection					
	Smart Link					
	RRPP					
Mirroring	Flow mirroring					
	Port mirroring					
QoS/ACL	Packet filter					
	Flexible queue scheduling algorithms based on ports and queues, including SP. WRR and SP+WRR					
	Bidirectional ACL					
	Port-based speed limit					
	Flow redirection					
	Time-range					
	STP/RSTP/MSTP					
	STP Root Protection					
Layer 2 ring network protocol	Smart Link					
	RRPP					
	Hierarchical user management and password protection					
	MAC-based authentication					
	802. 1X					
	SSH2. 0					
Security	Port isolation					
	IP source guard					
	HTTPs					
	EAD					
Loading and upgrading	Loading and upgrading through FTP/TFTP					
Bodding that applicating	Configuration from CLI					
	Login through Telnet, and the console port					
Management and maintenance	Simple Network Management Protocol (SNMP)					
	Remote Monitoring (RMON)					
	IMC network management system					
	WEB management					
	System log					
	Alarming based on severity					
	IRF					
	NTP					
	Debugging information output					
	Telnet-based remote maintenance					
	NQA					
	DLDP					
	Virtual Cable Test					



Ordering Information:

Product ID	Product Description
LS-5120V2-28P-LI-	H3C S5120V2-28P-LI L2 Ethernet Switch with 24*10/100/1000BASE-T Ports
GL	and 4*1000BASE-X Ports,(AC)
LS-5120V2-52P-LI-	H3C S5120V2-52P-LI L2 Ethernet Switch with 48*10/100/1000BASE-T Ports
GL	and 4*1000BASE-X Ports,(AC)
LS-5120V2-10P-	H3C S5120V2-10P-PWR-LI L2 Ethernet Switch with 8*10/100/1000BASE-T
PWR-LI-GL	PoE+ Ports(AC 125W), and 2*1000BASE-X SFP Ports,(AC)
LS-5120V2-10P-LI-	H3C S5120V2-10P-LI L2 Ethernet Switch with 8*10/100/1000BASE-T Ports
GL	and 2*1000BASE-X SFP Ports,(AC)
LS-5120V2-28P-	H3C S5120V2-28P-HPWR-LI L2 Ethernet Switch with 24*10/100/1000BASE-
HPWR-LI-GL	T PoE+ Ports(AC 370W,DC 740W), 4*100/1000BASE-X Ports, and 4*GE
	Combo Ports,(AC/DC)
LS-5120V2-52P-	H3C S5120V2-52P-PWR-LI L2 Ethernet Switch with 48*10/100/1000BASE-T
PWR-LI-GL	PoE+ Ports(AC 370W,DC 740W) and 4*1000BASE-X SFP Ports,(AC/DC)
LS-5120V2-20P-LI-	H3C S5120V2-20P-LI L2 Ethernet Switch with 16*10/100/1000BASE-T Ports
GL	and 4*1000BASE-X SFP Ports,(AC)
LS-5120V2-28P-	H3C S5120V2-28P-PWR-LI L2 Ethernet Switch with 24*10/100/1000BASE-T
PWR-LI-GL	PoE+ Ports(AC 185W) and 4*1000BASE-X Ports,(AC)



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