H3C S5130S-LI Gigabit Access & 10G Uplink Switch Series

Overview

H3C S5130S-LI is the latest development of Gigabit speed Layer 2 Ethernet switch. It's the second generation intelligent managed switches designed for networks requiring high performance, high port density, high uplink bandwidth and easy to use.

H3C S5130S-LI series switch offers Gigabit connectivity and large uplink bandwidth with10/100/1000 autosensing ports and 10G SFP+ uplink.

H3C S5130S-LI series switch includes two models as follows:

- S5130S-28S-LI: 24-port 10/100/1000TX Ethernet, 4-port SFP+;
- S5130S-52S-LI: 48-port 10/100/1000TX Ethernet, 4-port SFP+

Features and benefits

Abundant service capabilities

H3C S5130S-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 S5130S-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 S5130S-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 S5130S-LI switch series support single-port multi-authentication unified deployment.
- ARP attack and ARP virus are major threats to LAN security, so the S5130S-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 S5130S-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 S5130S-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 S5130S-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 S5130S-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 S5130S-LI switch series supports static routing, RIP, RIPng, OSPF V1/V2/V3.

Specifications

Item	S5130S-28S-LI	S5130S-52S-LI
Switching capacity	128Gbps	176Gbps
Packet forwarding rate	96Mpps	132 Mpps
Dimensions (H × W × D)	43.6 × 440 × 160 mm	43.6 × 440 × 230 mm
Weight	< 2.5 kg	< 3.5 kg
Console ports	1	
Service ports	24-port 10/100/1000Base-T 4-port SFP+	48-port 10/100/1000Base-T 4-port SFP+
Input voltage range	100 VAC to 240 VAC @ 50 Hz/60 Hz	
Power consumption	MIN AC: 10W MAX AC: 24W	MIN AC: 19W MAX AC: 44W
Operating temperature	0°C to 45°C	
Operating humidity	10% RH to 90% RH, non-condensing	
Stacking	Intelligent Resilient Framework 2 (IRF2)	
Link aggregation	GE/10GE port aggregation Static aggregation Dynamic aggregation M-LAG	
Jumbo frame	Supported	
MAC address table	Blackhole MAC address MAC learning limit	
Flow control	802.3x flow control and half-duplex backpressure	
VLAN	Port-based VLAN QinQ Voice VLAN MAC VLAN	
ARP	ARP Detection ARP speed limit	
ND	Supported	
VLAN virtual port	Supported	
DHCP	DHCP Client 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	Storm suppression based on port bandwidth percentage Storm suppression based on PPS	

Item	S5130S-28S-LI	S5130S-52S-LI
Layer 2 ring network protocol	STP/RSTP/MSTP 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	
Layer 2 ring network protocol	STP/RSTP/MSTP STP Root Protection Smart Link RRPP	
Security	Hierarchical user management and password protection MAC-based authentication 802.1X SSH2.0 Port isolation IP source guard HTTPs EAD	
Loading and upgrading	Loading and upgrading through FTP/TFTP	
Management and maintenance	Configuration from CLI Login through Telnet, and the console port 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-5130S-28S-LI-GL	H3C S5130S-28S-LI L2 Ethernet Switch with 24*10/100/1000BASE-T Ports and 4*1G/10G BASE-X SFP Plus Ports,(AC)
LS-5130S-52S-LI-GL	H3C S5130S-52S-LI L2 Ethernet Switch with 48*10/100/1000BASE-T Ports and 4*1G/10G BASE-X SFP Plus Ports,(AC)

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