



H3C S5130S-EI-G-V2 Series Enhanced Gigabit Access Switches

Product overview

H3C S5130S-EI-G-V2 Series Switch – A simple (fixed power design), cost-effective and easy to deploy access switching solution that offers enhanced security, high-density GE and 10GbE uplinks, static route, RIP, OSPF, SDN and IRF enabled, flexible management, which meet the requirements for SME access, enterprise desktop access and high-density campus access.

H3C S5130S-EI-G-V2 Series Ethernet switches highlights:

High-performance design: Built with a dual-core CPU at 1.2 GHz, 2 GB of RAM, and 8GB of Flash, powerful hardware supports higher software features and table specifications.

High-quality access: High-density 2.5G PoE++ ports provide higher bandwidth and higher PoE power consumption, designed for Wi-Fi 6/7 scenarios.

End-to-end security: All-port MACsec builds end-to-end security network through point-to-point 256-bit encryption algorithm.

Easy-to-use design: Newly added RJ45 out-of-band management port, Type-C console port, location LED(ID), reset button, and one click to cloud button make switch management and maintenance more convenient.

No additional license: There are no additional software function or subscription fees for H3C S5130S-EI-G-V2 series switches. Save investment and no need to maintain complex licenses.

H3C S5130S-EI-G-V2 series switches include the following model:

S5130S-28T8X-EI-G-V2

28 × 10/100/1000Base-T Ports, 8 × 1G/10G Base-X SFP+ Ports, 1 × RJ45 OOB Management Port, 1 × USB Port, 1 × RJ45 Console Port, 1 × Type-C Console Port.

S5130S-48T6X-EI-G-V2

48 × 10/100/1000Base-T Ports, 6 × 1G/10G Base-X SFP+ Ports, 1 × RJ45 OOB Management Port, 1 × USB Port, 1 × RJ45 Console Port, 1 × Type-C Console Port.

S5130S-24UN8X-EI-G-V2

24 × 10/100/1000/2.5GBase-T PoE++ Ports, 8 × 1G/10G Base-X SFP+ Ports, 1 × RJ45 OOB Management Port, 1 × USB Port, 1 × RJ45 Console Port, 1 × Type-C Console Port.

S5130S-48UN6X-EI-G-V2

48 × 10/100/1000/2.5GBase-T PoE++ Ports, 6 × 1G/10G Base-X SFP+ Ports, 1 × RJ45 OOB Management Port, 1 × USB Port, 1 × RJ45 Console Port, 1 × Type-C Console Port.

Views

	
S5130S-28T8X-EI-G-V2	S5130S-48T6X-EI-G-V2
	
S5130S-24UN8X-EI-G-V2	S5130S-48UN6X-EI-G-V2

Features and highlights

SmartMC (Smart Management Center)

As the network scale increases, many access devices are required at the network edge, which makes the management of these devices very cumbersome. The main purpose of SmartMC is to solve the problem of centralized management

of significant scattered network devices. It is designed to solve the switch-based operation and maintenance tasks of small enterprises. SmartMC provides unified operation, maintenance, and management of the network by built-in graphical operation platform.

SmartMC simplifies the operation, maintenance, and management of Small and Medium-sized campuses:

Smart management

Includes device role selection, FTP server configuration, global configuration, and network management port configuration, etc.

Intelligent operation and maintenance

Include group management, equipment, or group upgrade backup, monitoring and equipment failure replacement, etc.

Visualization

Includes networking topology visualization and management, device list display, device ports display, etc.

Smart business

Includes user management, etc. After network access users are created and successfully activated, these users can access the SmartMC network through the one-key-armed port.

H3C S5130S-EI-G-V2 series switches can be used as the management device of SmartMC. You can log in to the SmartMC network through the S5130S-EI-G-V2 to manage the entire network in a unified manner.

High performance IPv4/IPv6 service capability

H3C S5130S-EI-G-V2 series switches implement a hardware-based IPv4/IPv6 dual-stack platform, support multiple tunnel technologies, rich IPv4 and IPv6 layer3 routing protocols, and multicast technology and policy routing mechanism to provide users with a complete IPv4/IPv6 solution.

Software defined network (SDN)

Software Defined Network (SDN) is an innovative network architecture that simplifies network management and reduces maintenance complexity by separating network control layer and network forwarding layer through OpenFlow. More importantly, it implements flexible network flow control and provides a well-defined network platform for core network application and innovation.

H3C S5130S-EI-G-V2 series switches support a large network flow table. Combined with H3C SDN controller, it can easily implement a two-layer network architecture and quickly add functions in existing network in order to drastically reduce network management complexity while substantially lowers network maintenance cost.

Cloud Management (Cloudnet)

H3C S5130S-EI-G-V2 series switches support cloud management by H3C Cloudnet. H3C Cloudnet is a H3C-proprietary comprehensive operation management and maintenance platform. Based on H3C unified O&M cloud platform (known as U-center), It provides a light-weight and multi-service platform to manage network and a powerful O&M service for small business. It uses Kubernetes for containerized applications and a fully distributed architecture to provide management of networks, terminals, users and service enabling features. With management and monitoring of multiple network services, the platform breaks the data barriers between services caused by isolated and vertical service deployment. H3C Cloudnet supports the delivery model of public clouds and provides customers with comprehensive network solutions to meet the needs of customers from different industries and operators.

IRF2 (intelligent resilient framework 2)

H3C S5130S-EI-G-V2 series switches support IRF2 technology that connects multiple physical devices (up to 9) to a logical device, users can manage and use these devices as a single device. IRF can bring the following benefits to the user:

Simplified management

Any one of the ports can be connected to any of the devices to login to a unified logical device, and to manage the whole system and all the members of the system through the configuration of a single device, without the physical connection to each member of the device.

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

IRF2 patented 1: N standby 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 10 Gigabit Ethernet (10GE) ports which allocates bandwidth for business and application access and reasonably splits local traffic and upstream traffic.

Comprehensive security control

H3C S5130S-EI-G-V2 series switches support 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-EI-G-V2 switch series support single-port multi-authentication unified deployment.

H3C S5130S-EI-G-V2 series switches support SSH V2 (Secure Shell V2) to secure information security, and strong authentication protect the Ethernet network switch from attacks such as IP address spoofing and clear text interception.

ARP attack and ARP virus are major threats to LAN security, so H3C S5130S-EI-G-V2 series switches come 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-EI-G-V2 series switches support EAD (End User Admission Domination) function. With the iMC (intelligent Management Centre) system, EAD integrates terminal security policies, such as anti-virus and patch update, 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 to passive mode, 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.

MACsec Hardware Encryption

MACsec (Media Access Control Security, MAC security) defines the method of data security communication based on IEEE 802 local area network. MACsec can provide users with secure MAC layer data transmission and reception services, including user data encryption, data frame integrity check and data source authenticity verification.

MACsec is usually used in conjunction with the 802.1X authentication framework. After the 802.1X authentication process is successful, it identifies the message sent by the authenticated device and uses the MKA (MACsec Key Agreement, MACsec Key Agreement) protocol to negotiate the generated key pair. Authenticated user data is encrypted and integrity checked to prevent the port from processing packets from unauthenticated devices or tampered with unauthenticated devices.

H3C S5130S-EI-G-V2 series switches support upgraded MACsec encryption technology and use 256-bit encryption algorithm to further improve data security; All ports of the device provide 256-bit MACsec encryption to ensure data security.

High availability

H3C S5130S-EI-G-V2 series switches feature multiple redundancy measures at the device and link levels, support

current and voltage surge control, overheat protection, power and fan troubleshooting and alert, as well as fan speed adjustment when the temperature changes.

Apart from device level redundancy, H3C S5130S-EI-G-V2 series switch also provides diverse link redundancy support such as LACP/STP/RSTP/MSTP/Smart Link protocols. It supports IRF2 and 1: N redundancy backup as well as cross-device link aggregation which substantially increases network reliability.

Multichassis Link Aggregation Group (M-LAG) (Original DRNI)

H3C S5130S-EI-G-V2 series switches support M-LAG, which enables links of multiple switches to aggregate into one to implement device-level link backup. M-LAG is applicable to servers dual-homed to a pair of access devices for node redundancy.

Streamlined topology

M-LAG simplifies the network topology and spanning tree configuration by virtualizing two physical devices into one logical device.

Independent upgrading

The DR member devices can be upgraded independently one by one to minimize the impact on traffic forwarding.

High availability

The DR system uses a keepalive link to detect multi-active collision to ensure that only one member device forwards traffic after a DR system splits.

Visualization Ability

H3C S5130S-EI-G-V2 series switches support Telemetry technology, which can send the switch's real-time resource information and alarm information to the O&M platform through the gRPC protocol.

The platform can realize network quality backtracking, troubleshooting, risk early warning, architecture optimization and other functions to accurately guarantee user experience by analyzing real-time data.

Abundant QoS

H3C S5130S-EI-G-V2 series switches support 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. H3C S5130S-EI-G-V2 series switches enable committed access rate (CAR) with the minimum granularity of 10 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.

Professional surge protection function

H3C S5130S-EI-G-V2 series switches use professional built-in surge protection technology and supports the industry-leading 6KV service port surge protection capability, which greatly reduces the damage rate of surge strikes to equipment even in harsh working environments.

Excellent manageability

H3C S5130S-EI-G-V2 series switches make 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.

AI-driven PoE

H3C S5130S-EI-G-V2 series switches support PoE power supply and can remotely power powered devices (PDs) such as APs and cameras. In addition, H3C S5130S-EI-G-V2 series also integrates AI capabilities into PoE technology, allowing PoE switches to support:

Fast PoE

Typically, PIs (power interface) does not deliver power to PDs (powered device) the moment the PSE (power sourcing equipment) is powered on but wait until the PSE completes startup. Fast PoE enables PIs to deliver power to PDs within few seconds after power is supplied to the PSE.

Perpetual PoE

Perpetual PoE continuously monitors the PD states and ensures continued power supply to PDs even when the PSE device is hot rebooting.

PoE watchdog

PoE watchdog function enables the adaptive monitoring network to have a “self-healing” function. When this function is turned on, the system can automatically detect the camera 24 hours. If the camera has no stream output, it is judged that the camera is crashed. The camera is restarted by cutting off the PoE power supply to solve the camera crashed problem. No manual operation is required, which can provide timely and reliable solutions for operation and maintenance.

AI-driven PoE

Innovatively integrating AI technologies into PoE switches, H3C AI-driven PoE enables completely automated, intelligently managed, healed, and optimized PoE, bringing convenient and outstanding PoE experience to users.

Green design

H3C S5130S-EI-G-V2 series switches implement a variety of green energy saving features, including auto-power-down (port automatic energy saving), if the interface status has been down for a period time, the system automatically stops the interface power and the system enters power-saving mode. They also support EEE energy feature, by which if a port stays idle for period, the system will set the port to energy-saving mode. H3C S5130S-EI-G-V2 series switches are also compliant with material environmental protection and the EU RoHS safety standard.

Technical specifications

Hardware specifications

Item	S5130S-28T8X-EI-G-V2	S5130S-48T6X-EI-G-V2	S5130S-24UN8X-EI-G-V2	S5130S-48UN6X-EI-G-V2
Port switching capacity	216Gbps	216Gbps	280Gbps	360Gbps
Forwarding capacity	161Mpps	161Mpps	208Mpps	268Mpps
Box switching capacity	672Gbps			
CPU	Dual Core, 1.2GHz			
SDRAM	2G			
FLASH	8G			
Buffer	3MB			
Dimensions (W× D×H)	440×360×44 mm	440×360×44 mm	440×400×44 mm	440×400×44 mm
Weight	≤6kg	≤5.9kg	≤6.5kg	≤6.7kg
10/100/1000 Base-T port	28	48	-	-
10/100/1000/2.5GBase-T port	-	-	24	48
PoE++(100W single port)	-	-	Y	Y
SFP+ port	8	6	8	6
Latency (64byte LIFO)	≤3.0μs			
Console port	1	1	1	1
Type-C console port	1	1	1	1
Management Ethernet port	1	1	1	1
USB port	1	1	1	1
Maximum stacking bandwidth	80Gbps	80Gbps	80Gbps	80Gbps
Maximum stacking number	9	9	9	9
Input voltage	Rated voltage range: 100 VAC to 240 VAC @ 50 Hz or 60 Hz Max voltage range: 90	Rated voltage range: 100 VAC to 240 VAC @ 50 Hz or 60 Hz Max voltage range: 90	Rated voltage range: 100 VAC to 240 VAC @ 50 Hz or 60 Hz Max voltage range: 90	Rated voltage range: 100 VAC to 240 VAC @ 50 Hz or 60 Hz Max voltage range: 90

Item	S5130S-28T8X-EI-G-V2	S5130S-48T6X-EI-G-V2	S5130S-24UN8X-EI-G-V2	S5130S-48UN6X-EI-G-V2
	VAC to 264 VAC @ 47 Hz to 63 Hz	VAC to 264 VAC @ 47 Hz to 63 Hz	VAC to 264 VAC @ 47 Hz to 63 Hz	VAC to 264 VAC @ 47 Hz to 63 Hz
Power consumption	MIN Single AC:22W Dual AC:23W MAX Single AC: 53 W Dual AC: 53 W	MIN Single AC:30W Dual AC:30W MAX Single AC: 66 W Dual AC: 65 W	MIN Single AC:37W Dual AC:47W MAX Single AC:1035W (PoE 830W) Dual AC: 2568W (PoE 2400W)	MIN Single AC:51W Dual AC: 59W MAX Single AC:1739W (PoE 1500W) Dual AC: 3222W (PoE 2900W)
Fan number (fixed)	2	2	2	2
Sound pressure level at 27°C (80.6°F)	39.7 dB	31.8 dB	56.4 dB	56.1 dB
MTBF(Year)	142.89	108.1	113.5	86.5
MTTR(Hour)	1	1	1	1
Operating temperature	-5°C ~ 50°C(normal operating temperature) -5°C ~ 45°C(When using transceiver modules with maximum transmission distance < 80km) -5°C ~ 40°C(When using transceiver modules with maximum transmission distance ≥ 80km)			
Storage temperature	-40°C ~ 70°C			
Operating & storage relative humidity	5% RH to 95% RH, non-condensing			

- Note: This content is applicable only to regions outside mainland China. H3C reserves the right to interpret the content.

Software specifications

Item	S5130S-EI-G-V2 switch series
LAN	VLAN ID range 0 to 4095(Total 4096, 0 and 4095 are reserved) Access/Trunk/Hybrid VLAN Port-based VLAN MAC-based VLAN IP subnet-based VLAN Protocol-based VLAN IEEE 802.1P(CoS priority) Private VLAN Voice VLAN QinQ (802.1Q-in-802.1Q)

Item	S5130S-EI-G-V2 switch series
	Vlan mapping Static/Dynamic/Blackhole/Multiport unicast MAC MAC automatic learning and aging Port-based/VLAN-based MAC learning limit MAC filter Port isolation Loop detection MVRP (Multiple VLAN Registration Protocol) GVRP (Generic VLAN Registration Protocol) STP (Spanning tree protocol) RSTP (Rapid Spanning Tree Protocol) MSTP (Multiple Spanning Tree Protocol) PVST (Per-VLAN Spanning Tree) (compatible with PVST+/RPVST+/PVRST+) BPDU/root/loop/TC-BPDU/PVST BPDU/dispute loopback guard BPDU filter Role/TC-BPDU transmission restriction LLDP (Link Layer Discovery Protocol) and LLDP-MED Broadcast/multicast/unknown unicast storm constrain Jumbo frame
Ethernet link aggregation	Static aggregation Dynamic aggregation Port aggregation LACP (Link Aggregation Control Protocol) S-MLAG
PoE	Fast PoE Perpetual PoE PoE watchdog (Self-healing PoE) PSE power monitoring
IP services	Static/Dynamic/Gratuitous/proxy ARP ARP snooping/fast-reply/direct route advertisement/ping ARP attack detection ARP source suppression DHCP (Dynamic Host Configuration Protocol) DHCP Server/relay agent/client/snooping DNS (Domain Name System) IRDP (ICMP Router Discovery Protocol)

Item	S5130S-EI-G-V2 switch series
	UDP helper ND (Neighbor Discovery) ND snooping/proxy/direct route advertisement/ping DHCPv6 Server/relay agent/client/snooping/guard HTTP redirect IPv4/IPv6 over IPv4 tunneling, and IPv4/IPv6 over IPv6 tunneling IPv4/IPv6 Fast Forwarding
Routing	Static routing, RIP, OSPF, IS-IS, and BGP IPv4/IPv6 dual stack IPv4/IPv6 ECMP (Equal-cost multi-path routing) IPv4/IPv6 PBR (Policy-based routing) IPv4/IPv6 Routing policy IPv6 static routing, RIPng, OSPFv3 Pingv6, Telnetv6, FTPv6, TFTPv6, DNSv6, ICMPv6 Dual-stack PBR
Forwarding	Hardware-based (ASIC) Wire-speed/Line-rate architecture Store-and-forward
Broadcast/multicast/unicast storm suppression	Storm suppression based on port bandwidth percentage Storm suppression based on PPS Storm suppression based on BPS Broadcast traffic/Multicast traffic/Unknown unicast traffic suppression
Multicast	IGMPv1/IGMPv2/IGMPv3 PIM-SM/PIM-SSM/PIM-DM PIM snooping IGMP Snooping IGMP snooping proxying IPv6 PIM snooping MLD Snooping MLD snooping proxying Multicast VLAN
ACL/QoS	ACL (Access Control List) Advanced ACL User-defined ACL Ingress and Egress ACL Ingress/Egress CAR Diff-Serv QoS

Item	S5130S-EI-G-V2 switch series
	Eight queues on a port 802.1P/DSCP Priority marking and remarking 802.1p, TOS, DSCP, and EXP priority mapping Flexible queue scheduling algorithms including SP, WRR, SP+WRR Traffic shaping Traffic redirecting Time ranges Traffic classification based on source MAC, destination MAC, source IP, destination IP, port, protocol, and VLAN
VPN	VPN-instance MCE (Multi-VPN Instance Customer Edge) IPv6 MCE
Security	RBAC (Role-based access control) AAA (Authentication, Authorization, and Accounting) RADIUS (Remote Authentication Dial-In User Service) TACACS (Terminal Access Controller Access Control System) HWTACACS (HW Terminal Access Controller Access Control System) (Same authentication processes and implementations with TACACS+) 802.1X authentication Portal authentication MAC authentication Web authentication Triple authentication Port security SSH1.x and SSH2.0 (Secure Shell) SSL (Secure Sockets Layer) HTTP/HTTPS Public Key Infrastructure (PKI) Control Plane Protection (CoPP) Secure Boot Attack detection and prevention ARP protection Dynamic ARP Inspection (DAI) TCP attack prevention IPSG (IP source guard) IPv6 RA Guard ARP attack protection

Item	S5130S-EI-G-V2 switch series
	ND attack protection MFF (MAC-forced forwarding) SAVI (Source Address Validation Improvement) FIPS (Federal Information Processing Standards) Hierarchical user management and password protection EAD (Endpoint Admission Defense) Basic and advanced ACLs for packet filtering OSPF, RIPv2, plain text and MD5 authentication
High availability	Ethernet OAM (IEEE 802.3ah) CFD (Connectivity Fault Detection) (IEEE 802.1ag and ITU-T Y.1731) DLDP (Device Link Detection Protocol) RRPP (Rapid Ring Protection Protocol) ERPS (G.8032 Ethernet Ring Protection Switching) Smart Link Monitor Link VRRPv2(Virtual Router Redundancy Protocol) VRRPv3 BFD (Bidirectional forwarding detection) Hardware BFD BFD for VRRP/OSPF /static routing, with a failover detection time less than 50 milliseconds IRF stacking convergency time less than 50 milliseconds Track Process redundancy/placement CPU protection Hot patching Link aggregation VCT (virtual cable test) Smart-Link ISSU (In-Service Software Upgrade)
Network management	NQA (Network quality analyzer) Performance management through gRPC or NETCONF MDI/MDIX (medium-dependent interface/MDI crossover) NTP (Network Time Protocol) SNMPv1/SNMPv2c/SNMPv3 RMON (Remote Network Monitoring) and groups 1,2,3 and 9 MIB

Item	S5130S-EI-G-V2 switch series
	NETCONF/YANG Restful/Restconf API EAA (Embedded Automation Architecture) Port mirroring SPAN (Switch Port Analyzer)/RSPAN (Remote SPAN) Flow mirroring NetStream/IPv6 NetStream sFlow Priority-based flow control (PFC) Information center Multiple syslog server connection VCF (Virtual Converged Framework) CWMP (CPE WAN Management Protocol/TR-069) ONVIF (Open Network Video Interface Forum) Fault alarm and automatic fault recovery System logs Alarming based on severity Debugging information output Device status monitoring mechanism, including the CPU engine, backplane, chips and other key components Configuration through CLI, Telnet, and console port Web-based configuration Zero Touch Provisioning Cloud management WebSocket Loading and upgrading through XModem/FTP/TFTP/SFTP/USB iMC network management system SmartMC (embedded Smart Graphical Management Center) No additional license required for switch software and hardware
Stacking	Intelligent Resilient Framework 2 (IRF2) (fast convergence within 50ms) Distributed device management Distributed link aggregation Distributed resilient routing Stacking through standard Ethernet ports Local device stacking and remote device stacking (Long distance stacking) LACP-, BFD-, and ARP-based multi-active detection (MAD)
Automatic configuration	Server-based automatic configuration USB-based automatic configuration

Item	S5130S-EI-G-V2 switch series
Programmability and automation	Ansible Auto DevOps by using Python, NETCONF, TCL, and Restful APIs for automated network programming
Visualization	gRPC (Google remote procedure call) Flow group
OpenFlow	OpenFlow 1.3 Multiple controllers (EQUAL, master/slave) Multiple tables flow Group table
EMC	FCC Part 15 Subpart B CLASS A ICES-003 CLASS A VCCI CLASS A CISPR 32 CLASS A EN 55032 CLASS A CISPR 35 AS/NZS CISPR 32 EN 55035 EN 61000-3-2 EN 61000-3-3 ETSI EN 300 386
Safety	CSA C22.2 No. 62368-1-14 IEC 62368-1 EN 62368-1 EN 60825-1 AS/NZS 62368-1 GB 4943.1
RoHS	EU RoHS2.0 Directive China RoHS 2.0

Performance specifications

Item	S5130S-EI-G-V2 series switches
MAC address entries	32K
VLAN table	4K
VLAN interface	1024
Active VLAN	4K

Item	S5130S-EI-G-V2 series switches
IPv4 routing entries	12K
IPv4 ARP entries	12K
IPv4 ACL entries	Ingress: 1.75K Egress: 0.75K
IPv4/IPv6 multicast L2 entries	8K
IPv4/IPv6 multicast L3 entries	4K
QOS forward queues	8
IPv6 unicast routing entries	3K
IPv6 ND entries	12K
IPv6 ACL entries	Ingress: 0.875K Egress: 0.375K
Jumbo frame length	13312
MAX num in one aggregation group	64
Aggregation group num	256
MAX num of VPN	2K
Group of RMON	4

PoE power capacity

Power supply 1	Power supply 2	S5130S-24UN8X-EI-G-V2		S5130S-48UN6X-EI-G-V2	
		Total PoE power capacity	PoE ports quantity	Total PoE power capacity	PoE ports quantity
PSR600-54A-B	/	530W	15.4W (802.3af): 24	500W	15.4W (802.3af): 32
			30W (802.3at): 17		30W (802.3at): 16
			60W (802.3bt): 8		60W (802.3bt): 8
			100W (802.3bt): 5		100W (802.3bt): 5
PSR920-54A-B	/	850W	15.4W (802.3af): 24	820W	15.4W (802.3af): 48
			30W (802.3at): 24		30W (802.3at): 27
			60W (802.3bt): 13		60W (802.3bt): 13
			100W (802.3bt): 8		100W (802.3bt): 8
PSR1300-54D-B	/	1230W	15.4W (802.3af): 24	1200W	15.4W (802.3af): 48
			30W (802.3at): 24		30W (802.3at): 40
			60W (802.3bt): 20		60W (802.3bt): 20
			100W (802.3bt): 12		100W (802.3bt): 12
PSR1600-54A-B (input	/	850W	15.4W (802.3af): 24	820W	15.4W (802.3af): 48

Power supply 1	Power supply 2	S5130S-24UN8X-EI-G-V2		S5130S-48UN6X-EI-G-V2	
		Total PoE power capacity	PoE ports quantity	Total PoE power capacity	PoE ports quantity
voltage: 90 VAC to 176 VAC)			30W (802.3at): 24		30W (802.3at): 27
			60W (802.3bt): 14		60W (802.3bt): 13
			100W (802.3bt): 8		100W (802.3bt): 8
PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	/	1530W	15.4W (802.3af): 24	1500W	15.4W (802.3af): 48
			30W (802.3at): 24		30W (802.3at): 48
			60W (802.3bt): 24		60W (802.3bt): 25
			100W (802.3bt): 15		100W (802.3bt): 15
PSR600-54A-B	PSR600-54A-B	1100W	15.4W (802.3af): 24	1070W	15.4W (802.3af): 48
			30W (802.3at): 24		30W (802.3at): 35
			60W (802.3bt): 18		60W (802.3bt): 17
			100W (802.3bt): 11		100W (802.3bt): 10
PSR600-54A-B	PSR920-54A-B	1100W	15.4W (802.3af): 24	1070W	15.4W (802.3af): 48
			30W (802.3at): 24		30W (802.3at): 35
			60W (802.3bt): 18		60W (802.3bt): 17
			100W (802.3bt): 11		100W (802.3bt): 10
PSR920-54A-B	PSR1300-54D-B	1100W	15.4W (802.3af): 24	1650W	15.4W (802.3af): 48
			30W (802.3at): 24		30W (802.3at): 48
			60W (802.3bt): 18		60W (802.3bt): 27
			100W (802.3bt): 11		100W (802.3bt): 16
PSR920-54A-B	PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	1340W	15.4W (802.3af): 24	1310W	15.4W (802.3af): 48
			30W (802.3at): 24		30W (802.3at): 43
			60W (802.3bt): 22		60W (802.3bt): 21
			100W (802.3bt): 13		100W (802.3bt): 13
PSR920-54A-B	PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	1680W	15.4W (802.3af): 24	1310W	15.4W (802.3af): 48
			30W (802.3at): 24		30W (802.3at): 43
			60W (802.3bt): 24		60W (802.3bt): 21
			100W (802.3bt): 16		100W (802.3bt): 13
PSR1300-54D-B	PSR1300-54D-B	2400W	15.4W (802.3af): 24	2370W	15.4W (802.3af): 48
			30W (802.3at): 24		30W (802.3at): 48
			60W (802.3bt): 24		60W (802.3bt): 39
			100W (802.3bt): 24		100W (802.3bt): 23
PSR1300-54D-B	PSR1600-54A-B (input	1560W	15.4W (802.3af): 24	1530W	15.4W (802.3af): 48

Power supply 1	Power supply 2	S5130S-24UN8X-EI-G-V2		S5130S-48UN6X-EI-G-V2	
		Total PoE power capacity	PoE ports quantity	Total PoE power capacity	PoE ports quantity
	voltage: 90 VAC to 176 VAC)		30W (802.3at): 24 60W (802.3bt): 24 100W (802.3bt): 15		30W (802.3at): 48 60W (802.3bt): 25 100W (802.3bt): 15
PSR1300-54D-B	PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	2400W	15.4W (802.3af): 24 30W (802.3at): 24 60W (802.3bt): 24 100W (802.3bt): 24	2370W	15.4W (802.3af): 48 30W (802.3at): 48 60W (802.3bt): 39 100W (802.3bt): 23
PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	1680W	15.4W (802.3af): 24 30W (802.3at): 24 60W (802.3bt): 24 100W (802.3bt): 16	1650W	15.4W (802.3af): 48 30W (802.3at): 48 60W (802.3bt): 27 100W (802.3bt): 16
PSR920-54A-B	PSR920-54A-B	1680W	15.4W (802.3af): 24 30W (802.3at): 24 60W (802.3bt): 24 100W (802.3bt): 16	1650W	15.4W (802.3af): 48 30W (802.3at): 48 60W (802.3bt): 27 100W (802.3bt): 16
PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	1680W	15.4W (802.3af): 24 30W (802.3at): 24 60W (802.3bt): 24 100W (802.3bt): 16	1650W	15.4W (802.3af): 48 30W (802.3at): 48 60W (802.3bt): 27 100W (802.3bt): 16
PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	2400W	15.4W (802.3af): 24 30W (802.3at): 24 60W (802.3bt): 24 100W (802.3bt): 24	2900W	15.4W (802.3af): 48 30W (802.3at): 48 60W (802.3bt): 48 100W (802.3bt): 29

Standards and protocols compliance

Organization	Standards and protocols
IEEE	802.1x Port based network access control protocol 802.1ab Link Layer Discovery Protocol 802.1ak MVRP and MRP 802.1ax Link Aggregation

Organization	Standards and protocols
	802.1d Media Access Control Bridges 802.1p Priority 802.1q VLANs 802.1s Multiple Spanning Trees 802.1ag Connectivity Fault Management 802.1v VLAN classification by Protocol and Port 802.1w Rapid Reconfiguration of Spanning Tree 802.3ad Link Aggregation Control Protocol 802.3at Power over Ethernet 802.3bt Power over Ethernet 802.3az Energy Efficient Ethernet 802.3ah Ethernet in the First Mile 802.3x Full Duplex and flow control 802.3u 100BASE-T 802.3ab 1000BASE-T 802.3z 1000BASE-X 802.3ae 10-Gigabit Ethernet
IETF	RFC 768 User Datagram Protocol (UDP) RFC 791 Internet Protocol (IP) RFC 792 Internet Control Message Protocol (ICMP) RFC 793 Transmission Control Protocol (TCP) RFC 813 Window and Acknowledgement Strategy in TCP RFC 815 IP datagram reassembly algorithms RFC 8201 Path MTU Discovery for IP version 6 RFC 826 Address Resolution Protocol (ARP) RFC 879 TCP maximum segment size and related topics RFC 896 Congestion control in IP/TCP internetworks RFC 917 Internet subnets RFC 919 Broadcasting Internet Datagrams RFC 922 Broadcasting Internet Datagrams in the Presence of Subnets (IP_BROAD) RFC 951 BOOTP RFC 1027 Proxy ARP RFC 1122 Requirements for Internet Hosts - Communications Layers RFC 1213 MIB-2 Stands for Management Information Base RFC 1215 Convention for defining traps for use with the SNMP RFC 1256 ICMP Router Discovery Messages

Organization	Standards and protocols
	RFC 1350 TFTP Protocol (revision 2) RFC 1393 Traceroute Using an IP Option RFC 1519 Classless Inter-Domain Routing (CIDR) RFC 1542 BOOTP Extensions RFC 1583 OSPF Version 2 RFC 1591 Domain Name System Structure and Delegation RFC 1757 Remote Network Monitoring Management Information Base RFC 1772 Application of the Border Gateway Protocol in the Internet RFC 1812 Requirements for IP Version 4 Router RFC 1918 Address Allocation for Private Internet RFC 2131 Dynamic Host Configuration Protocol (DHCP) RFC 2132 DHCP Options and BOOTP Vendor Extensions RFC 2273 SNMPv3 Applications RFC 2328 OSPF Version 2 RFC 2375 IPv6 Multicast Address Assignments RFC 2401 Security Architecture for the Internet Protocol RFC 2402 IP Authentication Header RFC 2460 Internet Protocol, Version 6 (IPv6) Specification RFC 2464 Transmission of IPv6 over Ethernet Networks RFC 2576 (Coexistence between SNMP V1, V2, V3) RFC 2579 Textual Conventions for SMIv2 RFC 2580 Conformance Statements for SMIv2 RFC 2711 IPv6 Router Alert Option RFC 2787 Definitions of Managed Objects for the Virtual Router Redundancy Protocol RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations RFC 3101 OSPF Not-so-stubby-area option RFC 3046 DHCP Relay Agent Information Option RFC 3056 Connection of IPv6 Domains via IPv4 Clouds RFC 3137 OSPF Stub Router Advertisement sFlow RFC 3416 (SNMP Protocol Operations v2) RFC 3417 (SNMP Transport Mappings) RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP) RFC 3484 Default Address Selection for IPv6 RFC 3509 Alternative Implementations of OSPF Area Border Routers RFC 3580 IEEE 802.1X Remote Authentication Dial In User Service (RADIUS) Usage Guidelines RFC 3623 Graceful OSPF Restart

Organization	Standards and protocols
	RFC 3768 Virtual Router Redundancy Protocol (VRRP) RFC 4022 MIB for TCP RFC 4113 MIB for UDP RFC 4213 Basic Transition Mechanisms for IPv6 Hosts and Routers RFC 4251 The Secure Shell (SSH) Protocol RFC 4252 SSHv6 Authentication RFC 4253 SSHv6 Transport Layer RFC 4254 SSHv6 Connection RFC 4291 IP Version 6 Addressing Architecture RFC 4292 IP Forwarding Table MIB RFC 4293 Management Information Base for the Internet Protocol (IP) RFC 4419 Key Exchange for SSH RFC 4443 ICMPv6 RFC 4486 Subcodes for BGP Cease Notification Message RFC 4541 IGMP & MLD Snooping Switch RFC 4552 Authentication/Confidentiality for OSPFv3 RFC 4750 OSPFv2 MIB partial support no SetMIB RFC 4861 IPv6 Neighbor Discovery RFC 4862 IPv6 Stateless Address Auto-configuration RFC 4940 IANA Considerations for OSPF RFC 5095 Deprecation of Type 0 Routing Headers in IPv6 RFC 5187 OSPFv3 Graceful Restart RFC 5340 OSPFv3 for IPv6 RFC 5424 Syslog Protocol RFC 5798 VRRP (exclude Accept Mode and sub-sec timer) RFC 5880 Bidirectional Forwarding Detection RFC 5905 Network Time Protocol Version 4: Protocol and Algorithms Specification RFC 6620 FCFS SAVI RFC 6987 OSPF Stub Router Advertisement RFC 5280 Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile RFC 5381 Experience of Implementing NETCONF over SOAP
MIB	HH3C-CONFIG-MAN-MIB HH3C-FLASH-MAN-MIB HH3C-FTPS-MIB HH3C-RBAC-MIB HH3C-SYS-MAN-MIB

Organization	Standards and protocols
	HH3C-TELNET-MIB HH3C-UI-MAN-MIB RFC1213-MIB ENTITY-MIB HH3C-COMMON-SYSTEM-MIB HH3C-ENTITY-EXT-MIB HH3C-ENTRELATION-MIB HH3C-INFOCENTER-MIB HH3C-LSW-DEV-ADM-MIB HH3C-LSWDEVM-MIB HH3C-LSWTRAP-MIB HH3C-RES-MON-MIB HH3C-TRANSCIVER-INFO-MIB HH3C-TRAP-MIB POWER-ETHERNET-MIB SYSLOG-MSG-MIB HH3C-LswMix-MIB HH3C-MAD-MIB HH3C-STACK-MIB HH3C-IF-EXT-MIB HH3C-LSWINF-MIB HH3C-STORM-CONSTRAIN-MIB IF-MIB BRIDGE-MIB EtherLike-MIB HH3C-ETH-TRAP-MIB HH3C-LAG-MIB HH3C-LLDP-EXT-MIB HH3C-LPBKDT-MIB HH3C-LSWMAM-MIB HH3C-LSWMSTP-MIB HH3C-LSWVLAN-MIB HH3C-MAC-INFORMATION-MIB HH3C-MAC-TRAP-MIB HH3C-PROTOCOL-VLAN-MIB HH3C-PVST-MIB

Organization	Standards and protocols
	HH3C-QINQV2-MIB HH3C-SUBNET-VLAN-MIB HH3C-VMAP-MIB HH3C-VOICE-VLAN-MIB EEE8021-CFM-MIB EEE8021-CFM-V2-MIB EEE8023-LAG-MIB LLDP-EXT-DOT1-MIB LLDP-EXT-DOT1-V2-MIB LLDP-EXT-DOT3-MIB LLDP-EXT-DOT3-V2-MIB LLDP-EXT-MED-MIB LLDP-MIB LLDP-V2-MIB P-BRIDGE-MIB O-BRIDGE-MIB HH3C-ARP-SOURCE-SUPPRESSION-MIB HH3C-ARP-SUPPRESSION-MIB HH3C-DHCP4-CLIENT-MIB HH3C-DHCP4-MIB HH3C-DHCP-SNOOP2-MIB HH3C-DNS-MIB HH3C-IP-ADDRESS-MIB HH3C-IPV6-ADDRESS-MIB HH3C-NAT-MIB HH3C-ND-TRAP-MIB HH3C-SESSION-MIB IP-FORWARD-MIB IP-MIB IPV6-ICMP-MIB IPV6-MIB IPV6-TCP-MIB IPV6-UDP-MIB TCP-MIB UDP-MIB HH3C-OSPF-MIB

Organization	Standards and protocols
	HH3C-PBR-MIB OSPF-MIB OSPF-TRAP-MIB OSPFV3-MIB RIPv2-MIB HH3C-LSWIGSP-MIB HH3C-MPM-MIB HH3C-MULTICAST-SNOOPING-MIB IPMCAST-MIB MPLS-L3VPN-STD-MIB HH3C-ACL-MIB HH3C-CBQOS2-MIB HH3C-IFQOS2-MIB HH3C-QOS-CAPABILITY-MIB HH3C-8021X-EXT2-MIB HH3C-DOMAIN-MIB HH3C-LOCAL-AAA-SERVER-MIB HH3C-PORT-SECURITY-MIB HH3C-RADIUS-MIB HH3C-USER-MIB IEEE8021-PAE-MIB IEEE8021X-PAE-MIB RADIUS-ACC-CLIENT-MIB RADIUS-AUTH-CLIENT-MIB HH3C-IKE-MONITOR-MIB HH3C-IPSEC-MONITOR-V2-MIB HH3C-IPSG-MIB HH3C-IPSGT-MIB HH3C-PKI-MONITOR-MIB HH3C-PORTATK-TRAP-MIB HH3C-SSH-MIB SAVI-MIB DOT3-OAM-MIB HH3C-BFD-STD-MIB HH3C-CFD-MIB HH3C-DLDP2-MIB

Organization	Standards and protocols
	HH3C-ERPS-MIB HH3C-ETHOAM-MIB HH3C-RRPP-MIB HH3C-SMLK-MIB VRRP-MIB DISMAN-PING-MIB HH3C-HTTP-MIB HH3C-IRRORGROUP-MIB HH3C-NETCONF-MIB HH3C-NQA-MIB HH3C-NTP-MIB HH3C-RMON-EXT2-MIB HH3C-SNMP-EXT-MIB RMON2-MIB RMON-MIB SFLOW-MIB SNMP-FRAMEWORK-MIB SNMP-MPD-MIB SNMP-NOTIFICATION-MIB SNMP-TARGET-MIB SNMP-USER-BASED-SM-MIB SNMPv2-MIB SNMP-VIEW-BASED-ACM-MIB HH3C-GRPC-MIB HH3C-OFPP-MIB
ITU	ITU-T Y.1731 ITU-T Rec G.8032/Y.1344 Mar. 2010

Ordering information

Item		Description
Product code	LS-5130S-28T8X-EI-G3-V2	H3C S5130S-28T8X-EI-G-V2 Ethernet Switch with 28*10/100/1000BASE-T Ports and 8*1G/10G BASE-X SFP Plus Ports,Without Power Supplies

Item		Description
	LS-5130S-48T6X-EI-G3-V2	H3C S5130S-48T6X-EI-G-V2 Ethernet Switch with 48*10/100/1000BASE-T Ports and 6*1G/10G BASE-X SFP Plus Ports,Without Power Supplies
	LS-5130S-24UN8X-EI-G1-V2	H3C S5130S-24UN8X-EI-G-V2 Ethernet Switch with 24*10/100/1G/2.5G BASE-T PoE++ Ports and 8*1G/10G BASE-X SFP Plus Ports,Without Power Supplies
	LS-5130S-48UN6X-EI-G1-V2	H3C S5130S-48UN6X-EI-G-V2 Ethernet Switch with 48*10/100/1G/2.5G BASE-T PoE++ Ports and 6*1G/10G BASE-X SFP Plus Ports,Without Power Supplies
Power supply	CA-70A12	Pluggable 70W AC Power Supply
	PSR180-12D-B	180W Asset-Manageable DC Power Supply
	PSR600-54A-B	H3C, PSR600-54A-B,600W/56V PoE Power Supply
	PSR920-54A-B	H3C, PSR920-54A-B,920W/56V PoE Power Supply
	PSR1600-54A-B	H3C, PSR1600-54A-B,920W/56V PoE Power Supply
	PSR1300-54D-B-G	1300W PoE DC Power Supply Module (Power Panel Side Exhaust Airflow)

- - For more information about transceiver please check 'Hardware Information and Specifications' in support website.

Datasheet history

Description	Location	Date
Replace the datasheet with a new template	Full document	September, 2025
Add highlights	Product overview	September, 2025
Add MIB	Standards and protocols compliance	November, 2025



New H3C Technologies Co., Limited
Beijing Headquarters
Tower 1, LSH Center, 8 Guangshun South Street,
Chaoyang
District, Beijing, China
Zip: 100102
Hangzhou Headquarters
No.466 Changhe Road, Binjiang District, Hangzhou,
Zhejiang,
China Zip: 310052
Tel: +86-571-86760000
Fax: +86-571-86760001

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