



H3C S5580X-HI Series Switches

Product overview

H3C S5580X-HI series switches are a new generation of high-performance, high-port density, high-security Layer 3 Ethernet switches developed by H3C Technology Co., Ltd. (hereinafter referred to as H3C) using industry-leading ASIC technology, supporting IPv4/IPv6 Dual-stack management and forwarding, support static routing protocols and routing protocols such as RIP, OSPF, BGP, ISIS, etc., and support rich management and security features. It is a Gigabit Layer 3 Ethernet switch product for converged service networks.

In the campus network, H3C S5580X-HI series switches can be used as aggregation layer equipment, or as the core of small and medium-sized enterprises; downward can provide high-density GE tandem lower layer switches, upward through 10G/25G fiber or link aggregation is aggregated to the core switch to build a high-performance end-to-end IP network solution together with other H3C products.

H3C S5580X-HI switches series includes the following models:

S5580X-32P4X4YC-HI:

32×10/100/1000BASE-T ports(PoE++), 4×1G/10G SFP+ ports, 4×10G/25G SFP28 ports, 2×fan tray slots, 2×power supply slots, 1×expansion slot;

S5580X-48P4YC-HI:

48×10/100/1000BASE-T ports(PoE++), 4×10G/25G SFP28 ports, 2×fan tray slots, 2×power supply slots, 1×expansion slot;

S5580X-32T4X4YC-HI:

32×10/100/1000Base-T Ports, 4×1G/10GBase-X SFP Plus Ports, 4×10G/25GBase-X SFP28 Ports, 2×fan tray slots,

2×power supply slots, 1×expansion slot;

S5580X-48T4YC-HI:

48×10/100/1000Base-T Ports, 4×10G/25GBase-X SFP28 Ports, 2×fan tray slots, 2×power supply slots, 1×expansion slot;

S5580X-32S8T4X4YC-HI:

32×100/1000Base-X SFP Ports, 8×10/100/1000Base-T Combo Ports, 4×1G/10GBase-X SFP Plus Ports, 4×10G/25GBase-X SFP28 Ports, , 2×fan tray slots, 2×power supply slots, 1×expansion slot;

S5580X-48S4YC-HI:

48×100/1000Base-X SFP Ports,4×10G/25GBase-X SFP28 Ports, 2×fan tray slots, 2×power supply slots, 1×expansion slot;

Views

	
S5580X-32P4X4YC-HI	S5580X-48P4YC-HI
	
S5580X-32T4X4YC-HI	S5580X-48T4YC-HI
	
S5580X-32S8T4X4YC-HI	S5580X-48S4YC-HI

Features and highlights

Comware V9

Comware is a network operating system developed by H3C for use in network equipment. It includes rich networking functions and supports a full range of network equipment from campus to data center and from enterprise to carrier-grade.

Based on Comware V7, Comware V9 has been upgraded and adjusted in terms of openness, containerization, programmability, and visualization to better meet the current trends in network operating systems.

Advantages of Comware V9:

- Comware V9 adopts a native Linux kernel, and all its functionalities are fully implemented in user space, making it easy to upgrade the kernel version.
- Comware V9 supports containerization, allowing Comware to be deployed in the form of containers. It also supports the deployment of third-party applications in containers on devices running Comware V9, enhancing the openness of Comware.
- Comware V9 deepens the modular design concept, making the business modules independent and allowing them to be deployed separately or released as independent software. This enables the Comware V9 platform to be more flexible and adaptable to different network environments. The modular design also makes it easier to upgrade or enhance individual functions without affecting the overall operation of the system.
- Comware V9 has been designed to fully consider the needs of virtualization-based products. It features a lightweight support architecture, which enables faster and more flexible deployment of virtualized products.

SmartMC (smart management center)

As the network scale increases, a large number of 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 a large number of scattered network devices. It is designed to solve the switch-based operation and maintenance tasks of small enterprises. SmartMC realizes unified operation, maintenance and management of the network by means of built-in equipment and graphical operation.

SmartMC simplify the operation, maintenance and management of small and medium-sized parks:

Smart management

It mainly includes device role selection, FTP server configuration, global configuration and network management port configuration, etc.

Intelligent operation and maintenance

Mainly 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

Mainly includes user management, etc.: After network access users are created and successfully activated, these users can access the SmartMC network through the port of one- key arming.

The H3C S5580X-HI series switches can be used as the management device of SmartMC. You can log in to the SmartMC network through the S5580X-HI to manage the entire network in a unified manner.

Multi-Service Integration

Based on H3C's Open Service Architecture (OAA), H3C S5580X-HI series switches can not only provide the functions of traditional switches, but also integrate security module cards including FW, IPS, and load balancing, mini- iMC cards, and Eagle Vision cards. etc., making the S5580X-HI series switches a converged multi-service bearing platform.

High-Performance IPv4/IPv6 Service Capability

H3C S5580X-HI series switches implement a hardware-based IPv4/IPv6 dual-stack platform, support multiple tunnel technologies, rich IPv4 and IPv6 Layer 3 routing protocols, multicast technologies and policy routing mechanisms, providing users with complete IPv4/IPv6 solution.

IRF2 (Second Generation Intelligent Resilience Architecture)

H3C S5580X-HI series switches support IRF2 (Second Generation Intelligent Resilient Architecture) technology, which is to connect multiple physical devices to each other to make it virtual as a logical device, users can regard these multiple devices as one Manage and use a single device. IRF can bring the following benefits to users:

- **Simplified management:** IRF architecture is formed, it can be connected to any port of any device to log in to a unified logical device. By configuring a single device, it can manage the entire intelligent elastic system and all member devices in the system. There is no need to physically connect to each member device to configure and manage them individually.
- **Simplified service:** IRF are also run as a single device. For example, the routing protocol will be calculated as a single device. With the application of the cross-device link aggregation technology, it can replace the original generation tree protocol, which saves the interaction of a large number of protocol packets between devices, simplifies network operation, and shortens the convergence time when the network is turbulent.
- **Elastic expansion:** can realize elastic expansion according to user needs and ensure user investment. And new devices can be "hot-swapped" when they join or leave the IRF architecture, without affecting the normal operation of other devices.
- **High reliability:** high reliability IRF is reflected in three aspects: link, equipment and protocol. The physical ports between member devices support the aggregation function, and the physical connection between the IRF system and the upper and lower-layer devices also supports the aggregation function, which improves the reliability of the link through multi-link backup; the IRF system consists of multiple member devices. Once the master device fails, the system will quickly and automatically elect a new master to ensure uninterrupted services through the system, thus realizing device-level 1:N backup; the IRF system will have a real-time protocol hot backup function responsible for the configuration information of the protocol. Backup to all other member devices to achieve 1:N protocol reliability.

- **High performance:** For high-end switches, the increase in performance and port density is limited by the hardware structure. The performance and port density of an IRF system is the sum of the performance and port numbers of all devices inside the IRF. Therefore, the IRF technology can easily expand the switching capability of the device and the density of user ports several times, thereby greatly improving the performance of the device.

Complete Security Control Strategy

H3C S5580X-HI series switches support the EAD (terminal access control) function, and cooperate with the background system to integrate terminal security measures such as terminal antivirus and patch repair with network security measures such as network access control and access authority control into a linked security The system, through the inspection, isolation, repair, management and monitoring of network access terminals, makes the entire network change from passive defense to active defense, from single-point defense to comprehensive defense, and from decentralized management to centralized policy management. , worms and other emerging security threats overall defense capabilities.

H3C S5580X-HI series switches support centralized MAC address authentication, 802.1x authentication, support dynamic or static binding of user identification elements such as user account, IP, MAC, VLAN, and port, and implement user policies (VLAN, QoS, ACL) dynamic distribution; support with H3C's iMC system for real-time management of online users, timely diagnosis and disintegration of illegal network behavior.

H3C S5580X-HI series switches provide enhanced ACL control logic, support large-capacity ingress and egress port ACLs, and support VLAN-based ACL delivery, which simplifies the user configuration process and avoids waste of ACL resources. In addition, H3C S5580X-HI series switches will also support unicast reverse path finding technology (uRPF). The route between the interface and the source address specified in the packet is to verify its authenticity. If it does not exist, the packet is deleted, so that we can effectively prevent the source address spoofing that is increasingly flooding in the network.

Intelligent Network Quality Analyzer (iNQA)

H3C S5580X-HI switch series supports iNQA. iNQA provides the following benefits:

- **True measurement results:** iNQA measures the service packets directly to calculate packet loss results, thus reflecting the real network quality.
- **Wide application range:** Applicable to Layer 2 network and Layer 3 IP network. iNQA supports the network-level and direct link measurement flexibly.
- **Fast fault location:** iNQA obtains the packet loss time, packet loss location, and number of lost packets in real time.
- **Applicable to different applications:** You can apply iNQA to multiple scenarios, such as point-to-point, point-to-multipoint, and multipoint-to-multipoint.

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 S5580X-HI 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.

Multichassis link aggregation group (M-LAG) (original DRNI)

H3C S5580X-HI 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 S5580X-HI 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.

AI-driven PoE

Fast PoE

Typically, PIs does not deliver power to PDs the moment the PSE 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.

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.

Professional lightning protection feature

H3C S5580X-HI series switches use professional built-in lightning protection technology, supporting industry-leading 10KV lightning protection capability for its service ports. Even in harsh working environments, it can greatly reduce the equipment damage rate caused by lightning strikes.

Technical specifications

Hardware specifications

S5580X-32P4X4YC-HI / S5580X-48P4YC-HI

Item	S5580X-32P4X4YC-HI	S5580X-48P4YC-HI
Port switching capacity	744Gbps	696Gbps
Packet forwarding capacity	553.57Mpps	517.85Mpps
Switching capacity	2.4Tbps	
CPU	Dual Core, 1.2GHz	
SDRAM	4G	
Flash	4G	
Packet buffer	8MB	
Dimensions (W×D×H)	440 × 400 × 44 mm	440 × 400 × 44 mm
Weight	≤ 7.9kg	≤ 8.1kg
Console port	1 RJ45	
Management Ethernet port	10/100/1000Base-T electrical port: 1 (Out of Band)	
USB port	1	
10/100/1000 BASE-T port (PoE++)	32	48
1G/10G Base-X SFP+	4	-
10G/25G Base-X SFP28	4	4
PoE	PoE++	PoE++
Latency (64byte LIFO)	GE: <5μs 10G/25G: <3μs	GE: <5μs 10G/25G: <3μs
Expansion card slot	1	
Input voltage	AC:	

Item	S5580X-32P4X4YC-HI	S5580X-48P4YC-HI
	Rated voltage range: 100 VAC to 240 VAC @ 50 Hz/60 Hz Max voltage range: 90 VAC to 264 VAC @ 47 Hz to 63 Hz	
Power supply slots	1+1 hot swappable	
Fan trays	hot swappable	
Power consumption (static) Data collection standard: no load	Single AC input: 48 W Dual AC inputs: 59 W	Single AC input: 54 W Dual AC inputs: 66 W
Power consumption (with typical configuration) Data collection standard: fully configured with DAC cables or twisted pair cables, 30% loaded	Single AC input: 69 W Dual AC inputs: 77 W	Single AC input: 78 W Dual AC inputs: 87 W
Power consumption (fully configured) Data collection standard: fully configured with transceiver modules or twisted pair cables, 100% loaded	Single AC input: 1705 W Dual AC inputs: 3201 W	Single AC input: 1690 W Dual AC inputs: 3195W
MTBF(Year)	87.14	84.56
MTTR(Hour)	1	1
Operating temperature	-5°C to 50°C (23°F to 122°F) From -60m to 5000m altitude: From 0m, the maximum operating temperature reduce by 0.33°C for every time 100 the altitude increases by 100m.	
Storage temperature	-40°C to 70°C (-40°F to 158°F)	
Relative operating humidity (non-condensing)	5 % to 95 %	

S5580X-32T4X4YC-HI / S5580X-48T4YC-HI

Item	S5580X-32T4X4YC-HI	S5580X-48T4YC-HI
Port switching capacity	744Gbps	696Gbps
Packet forwarding capacity	553.57Mpps	517.85Mpps
Switching capacity	2.4Tbps	
CPU	Dual Core, 1.2GHz	
SDRAM	4G	
Flash	4G	
Packet buffer	8MB	
Dimensions (W×D×H)	440 × 360 × 44 mm	440 × 360 × 44 mm
Weight	≤ 6.6kg	≤ 6.7kg
Console port	1 RJ45	
Management Ethernet port	10/100/1000Base-T electrical port: 1 (Out of Band)	
USB port	1	

Item	S5580X-32T4X4YC-HI	S5580X-48T4YC-HI
10/100/1000 BASE-T port	32	48
1G/10G Base-X SFP+	4	-
10G/25G Base-X SFP28	4	4
Latency (64byte LIFO)	GE: <5μs 10G/25G: <3μs	GE: <5μs 10G/25G: <3μs
Expansion card slot	1	
Input voltage	AC: Rated voltage range: 100 VAC to 240 VAC @ 50 Hz/60 Hz Max voltage range: 90 VAC to 264 VAC @ 47 Hz to 63 Hz DC: Rated voltage range: -48 to -60 VDC Max voltage range: -36 to -72 VDC	
Power supply slots	1+1 hot swappable	
Fan trays	hot swappable	
Power consumption (static) Data collection standard: no load	Single AC input: 32 W Single DC input: 34 W Dual AC inputs: 39 W Dual DC inputs: 39 W	Single AC input: 34 W Single DC input: 35 W Dual AC inputs: 42 W Dual DC inputs: 41 W
Power consumption (with typical configuration) Data collection standard: fully configured with DAC cables or twisted pair cables, 30% loaded	Single AC input: 50 W Single DC input: 51 W Dual AC inputs: 58 W Dual DC inputs: 57 W	Single AC input: 55 W Single DC input: 56 W Dual AC inputs: 62 W Dual DC inputs: 61 W
Power consumption (fully configured) Data collection standard: fully configured with transceiver modules or twisted pair cables, 100% loaded	Single AC input: 108 W Single DC input: 108 W Dual AC inputs: 112 W Dual DC inputs: 113 W	Single AC input: 135 W Single DC input: 135 W Dual AC inputs: 139 W Dual DC inputs: 140 W
MTBF(Year)	124.08	122.75
MTTR(Hour)	1	1
Operating temperature	-5°C to 50°C (23°F to 122°F) From -60m to 5000m altitude: From 0m, the maximum operating temperature reduce by 0.33°C for every time 100 the altitude increases by 100m.	
Storage temperature	-40°C to 70°C (-40°F to 158°F)	
Relative operating humidity (non-condensing)	5 % to 95 %	

S5580X-32S8T4X4YC-HI / S5580X-48S4YC-HI

Item	S5580X-32S8T4X4YC-HI	S5580X-48S4YC-HI
Port switching capacity	744Gbps	696Gbps
Packet forwarding capacity	553.57Mpps	517.85Mpps
Switching capacity	2.4Tbps	
CPU	Dual Core, 1.2GHz	
SDRAM	4G	
Flash	4G	
Packet buffer	8MB	
Dimensions (W×D×H)	440 × 360 × 44 mm	440 × 360 × 44 mm
Weight	≤ 6.6kg	≤ 6.7kg
Console port	1 RJ45	
Management Ethernet port	10/100/1000Base-T electrical port: 1 (Out of Band)	
USB port	1	
1G SFP	32	48
10/100/1000 BASE-T port	8 (Combo)	-
1G/10G Base-X SFP+	4	-
10G/25G Base-X SFP28	4	4
Latency (64byte LIFO)	GE: <5μs 10G/25G: <3μs	GE: <5μs 10G/25G: <3μs
Expansion card slot	1	
Input voltage	AC: Rated voltage range: 100 VAC to 240 VAC @ 50 Hz/60 Hz Max voltage range: 90 VAC to 264 VAC @ 47 Hz to 63 Hz DC: Rated voltage range: -48 to -60 VDC Max voltage range: -36 to -72 VDC	
Power supply slots	1+1 hot swappable	
Fan trays	hot swappable	
Power consumption (static) Data collection standard: no load	Single AC input: 29 W Single DC input: 30 W Dual AC inputs: 36 W Dual DC inputs: 36 W	Single AC input: 29 W Single DC input: 34 W Dual AC inputs: 36 W Dual DC inputs: 39 W
Power consumption (with typical configuration) Data collection standard: fully configured with DAC cables or twisted pair cables, 30% loaded	Single AC input: 54 W Single DC input: 55 W Dual AC inputs: 63 W Dual DC inputs: 61 W	Single AC input: 44 W Single DC input: 47 W Dual AC inputs: 51 W Dual DC inputs: 52 W

Item	S5580X-32S8T4X4YC-HI	S5580X-48S4YC-HI
Power consumption (fully configured) Data collection standard: fully configured with transceiver modules or twisted pair cables, 100% loaded	Single AC input: 108 W Single DC input: 108 W Dual AC inputs: 112 W Dual DC inputs: 113 W	Single AC input: 135 W Single DC input: 135 W Dual AC inputs: 139 W Dual DC inputs: 140 W
MTBF(Year)	117.69	134.3
MTTR(Hour)	1	1
Operating temperature	-5°C to 50°C (23°F to 122°F) From -60m to 5000m altitude: From 0m, the maximum operating temperature reduce by 0.33°C for every time 100 the altitude increases by 100m.	
Storage temperature	-40°C to 70°C (-40°F to 158°F)	
Relative operating humidity (non-condensing)	5 % to 95 %	

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

Software specifications

Item	S5580X-HI series switches
Ethernet configuration	Cross-device link aggregation Static aggregation Dynamic aggregation AutoMDIX LRM (Long Reach Multimode) (LSWM4SP8PM can support LRM transceiver) Speed Auto/Manual Duplex Auto/Full/Half
Port characteristics	IEEE802.3x flow control (full duplex) Storm suppression based on port rate percentage PPS-based storm suppression bps-based storm suppression
MAC address table	Black hole MAC address Setting the maximum number of port MAC addresses to learn
VLAN	Access/Trunk/Hybrid VLAN Port-based VLAN support MAC-based VLAN IP subnet-based VLAN VLAN ID range 0 to 4095(Total 4096, 0 and 4095 are reserved)Protocol-based VLAN IEEE 802.1P(CoS priority)

Item	S5580X-HI series switches
	Super VLAN Private VLAN Voice VLAN QinQ, flexible QinQ VLAN Mapping QinQ (802.1Q-in-802.1Q) Static/Dynamic/Blackhole/Multiport unicast MAC MAC automatic learning and aging Port-based/VLAN-based MAC learning limit MAC filter Port isolation Port-based VLAN Protocol-based VLAN IEEE 802.3x flow control (full duplex) LLDP (Link Layer Discovery Protocol) and LLDP-MED (Link Layer Discovery Protocol Media Endpoint Discovery) Broadcast/multicast/unknown unicast storm constrain Jumbo frame Store-and-forward (Default)
Layer 2 ring network protocol	Loop detection (VLAN and VXLAN network) MVRP (Multiple VLAN Registration Protocol) GVRP (Generic VLAN Registration Protocol) PVST (Per-VLAN Spanning Tree) (compatible with PVST+/RPVST+) STP/RSTP/MSTP SmartLink RRPP ERPS (G.8032) Ethernet ring network protection switching BPDU/root/loop/TC-BPDU/PVST BPDU/disputeloopback guard BPDU filter Role/TC-BPDU transmission restriction Port single-pass detection, Edge Port
IRF2 intelligent resilience architecture	IRF2 Intelligent Resilience Architecture (fast convergence within 50ms) Distributed device management, distributed link aggregation, distributed elastic routing Stacking via standard Ethernet interfaces, etc. Local stacking and remote stacking
Automatic configuration	Server-based automatic configuration USB-based automatic configuration

Item	S5580X-HI series switches
Programmability and automation	Ansible Auto DevOps by using Python, NETCONF, TCL, and Restful APIs for automated network programming
Visualization	gRPC (Google remote procedure call) INT (Inband Telemetry) Flow group
OpenFlow	OpenFlow 1.3 Multiple controllers (EQUAL, master/slave) Multiple tables flow Group table
IP services	Static/Dynamic/Gratuitous/proxy ARP ARP snooping/fast-reply/direct route advertisement/ping ARP attack detection ARP source suppression Ping, Tracert DHCP (Dynamic Host Configuration Protocol) DHCP Server/relay agent/client/snooping DHCP Option 43, Option 82, and Option 184, DNS (Domain Name System) DDNS (Dynamic Domain Name System) mDNS(Multicast Domain Name System) IRDP (ICMP Router Discovery Protocol) UDP helper ND (Neighbor Discovery) ND snooping/proxy/direct route advertisement/ping DHCPv6 Server/relay agent/client/snooping/guard GRE (Generic Routing Encapsulation) HTTP redirect GRE tunneling VXLAN tunneling and VXLAN-DCI tunneling IPv4/IPv6 over IPv4 tunneling, and IPv4/IPv6 over IPv6 tunneling IPv4/IPv6 Fast Forwarding NAT(Network Address Translation)
IP routing	Static routing RIPv1/v2, RIPv6 OSPFv1/v2, OSPFv3 BGP4, BGP4+ for IPv6

Item	S5580X-HI series switches
	IS-IS, IS-IS V6 Equal-cost routing, policy routing VRRP/VRRPv3 OSPF multi-process, MD5 encryption authentication, S TUB/NSSA area Route COST setting, support inter-area route filtering
IPv6	IPv4/IPv6 dual stack protocol PMTU IPv6-Ping, IPv6-Tracert, IPv6-Telnet, IPv6-TFTP, IPv6 - ICMP, IPv6 -DNS, IPv6-FTP, IPv6-NTP Manual tunnel, automatic tunnel ISATAP tunnel GRE tunnel
Multicast	PIM-DM, PIM-SM, PIM-SSM, and Any-RP PIM snooping IGMPv1/IGMPv2/IGMPv3 IGMP proxying IGMP Snooping IGMP snooping proxying IGMP Filter and IGMP Fast leave IPv6 PIM-DM, PIM-SM, PIM-SSM, and Any-RP IPv6 PIM snooping MLDv1/MLDV2 MLD proxying MLD Snooping MLD snooping proxying Multicast routing and forwarding Multicast VLAN MVPN (Multicast VPN) Multicast policy and Multicast QoS MSDP, MSDP for IPv6 MBGP, MBGP for Ipv6
Mirror	Stream mirroring supported N:1 port mirroring Local and remote port mirroring ERSPAN
ACL\QoS	L2 (Layer 2) ~ L4 (Layer 4) packet filtering function, provide based on source MAC address, destination MAC address, source IP (IPv4/IPv6) address, destination IP (IPv4/IPv6) address, TCP/UDP port number, Traffic Classification for VLANs

Item	S5580X-HI series switches
	Time Range ACL Bidirectional ACL policies in inbound and outbound directions Issuing ACLs based on VLANs Limiting the rate at which the port receives packets and the rate at which it sends packets Message redirection Diff-Serv QoS Eight queues each interface 802.1p, TOS, DSCP, and EXP priority mapping 802.1p and DSCP priority re-marking of packets CAR (Committed Access Rate) function Flexible queue scheduling algorithm, can be set based on port and queue at the same time, support SP, WFQ, SP+WFQ three modes Traffic shaping Time ranges Traffic classification based on source MAC, destination MAC, source IP, destination IP, port, protocol, and VLAN Congestion avoidance, Tail-Drop, RED (Random Early Detection) and WRED (Weighted Random Early Detection)
MPLS	Static LSP (label switched path) LDP (Label Distribution Protocol) IPv6 LDP Tunnel policies VRF (Virtual Routing and Forwarding) MPLS MCE MPLS L3VPN MPLS L2VPN MPLS Ping/Tracert MCE (Multi-VPN Instance Customer Edge) IPv6 MCE MPLS OAM
VXLAN	VxLAN Layer 2 and Layer 3 gateways VxLAN routing Centralized VXLAN gateway Distributed VXLAN gateway VXLAN M-LAG VXLAN-DCI OVSDB (Open vSwitch Database)

Item	S5580X-HI series switches
	VXLAN VTEP MP-BGP EVPN control plane EVPN VXLAN EVPN M-LAG
Safety features	RBAC (Role-based access control) User hierarchical management and password protection 802.1X authentication / centralized MAC address authentication Portal authentication Guest VLAN AAA (Authentication, Authorization, and Accounting) RADIUS authentication HWTACACS certification(compatible with TACACS+) MAC authentication Web authentication Triple authentication SSH1.x and SSH2.0(Secure Shell) SSL (Secure Sockets Layer) HTTPs Port security EAD SAVI and SAVA to ensure the security of IPv6 environment DHCP Snooping to prevent spoofed DHCP server Dynamic ARP inspection to prevent man-in-the-middle attacks and ARP denial of service BPDU guard, Root guard uRPF (Unicast Reverse Path Detection) to prevent IP source address spoofing and prevent viruses and attacks IP/Port/MAC binding function Control Plane Protection (CoPP), Wireless Intrusion Prevention System (WIPS) Attack detection and prevention TCP attack prevention IPSG (IP source guard) IPv6 RA Guard ARP attack protection ND attack protection MACsec (Media Access Control Security) All ports AES256 MACsec Microsegmentation Hierarchical user management and password protection

Item	S5580X-HI series switches
	Basic and advanced ACLs for packet filtering OSPF, RIPv2 message plaintext and MD5 ciphertext authentication PKI (Public Key Infrastructure, public key infrastructure)
Network management	NQA (Network quality analyzer) iNQA (Intelligent Network Quality Analyzer) eMDI (Enhanced Media Delivery Index) Performance management through gRPC or NETCONF NTP (Network Time Protocol) Hot patch function, online patch upgrade XModem /FTP/TFTP loading and upgrading Command line interface (CLI), Telnet, Console port for configuration SNMPv1/v2/v3, RMON (Remote Monitoring) BFD support for VRRP/IS-IS/BGP/RIP/OSPF/Static Routing iMC intelligent management center Syslog, system log, hierarchical alarm, debug information output NTP support Power alarm function, fan, temperature alarm VCT (Virtual Cable Test) cable detection function DLDP (Device Link Detection Protocol) unidirectional link detection protocol Port mirroring SPAN (Switch Port Analyzer)/RSPAN (Remote SPAN) Flow mirroring sFlow Information center NETCONF/YANG (XML-based network management protocol) Python script management operation and maintenance Loopback-detection port loopback detection NetStream function, traffic analysis sampling ratio 1:1 Built-in Web GUI Secure boot
Energy saving	Port automatic power down function Port timing down function (Schedule job) EEE (802.3az) energy saving standard
EMC	ICES-003 CLASS A VCCI CLASS A CISPR 32 CLASS A EN 55032 CLASS A

Item	S5580X-HI series switches
	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	S5580X-HI series switches
MAC address entries	max 128K
VLAN table	4K
VLAN interface	1K
IPv4 routing entries	max 266K
IPv4 ARP entries	80K
IPv4 ACL entries	IN: 1K EG: 512
IPv4 multicast L2 entries	1K
IPv4 multicast L3 entries	1K
IPv6 unicast routing entries	max 133K
QOS forward queues	8
IPv6 ACL entries	Ingress: 512 Egress: 256
IPv6 ND entries	58K
IPv6 multicast L2 entries	1K
IPv6 multicast L3 entries	1K
Jumbo frame length	10000

Item	S5580X-HI series switches
MAX members in one link group	32
Link group number	128
Max stacking members	9
Max stacking bandwidth	480Gbps

PoE power capacity

S5580X-32P4X4YC-HI / S5580X-48P4YC-HI

Power supply 1	Power supply 2	S5580X-32P4X4YC-HI		S5580X-48P4YC-HI	
		Total PoE power capacity	PoE ports quantity	Total PoE power capacity	PoE ports quantity
PSR600-54A-B	/	470W	15.4W (802.3af): 30	470W	15.4W (802.3af): 30
			30W (802.3at): 15		30W (802.3at): 15
			60W (802.3bt): 7		60W (802.3bt): 7
			90W (802.3bt): 5		90W (802.3bt): 5
PSR920-54A-B	/	790W	15.4W (802.3af): 32	790W	15.4W (802.3af): 48
			30W (802.3at): 26		30W (802.3at): 26
			60W (802.3bt): 13		60W (802.3bt): 13
			90W (802.3bt): 8		90W (802.3bt): 8
PSR1600-54A-B (Input Voltage: 90V AC~176V AC)	/	790W	15.4W (802.3af): 32	790W	15.4W (802.3af): 48
			30W (802.3at): 26		30W (802.3at): 26
			60W (802.3bt): 13		60W (802.3bt): 13
			90W (802.3bt): 8		90W (802.3bt): 8
PSR1600-54A-B (Input Voltage: 176V AC~290V AC or 180V DC~320V DC)	/	1470W	15.4W (802.3af): 32	1470W	15.4W (802.3af): 48
			30W (802.3at): 32		30W (802.3at): 48
			60W (802.3bt): 24		60W (802.3bt): 24
			90W (802.3bt): 16		90W (802.3bt): 16
PSR600-54A-B	PSR600-54A-B	1040W	15.4W (802.3af): 32	1040W	15.4W (802.3af): 48
			30W (802.3at): 32		30W (802.3at): 34
			60W (802.3bt): 17		60W (802.3bt): 17
			90W (802.3bt): 11		90W (802.3bt): 11
PSR600-54A-B	PSR920-54A-B	1040W	15.4W (802.3af): 32	1040W	15.4W (802.3af): 48
			30W (802.3at): 32		30W (802.3at): 34
			60W (802.3bt): 17		60W (802.3bt): 17

Power supply 1	Power supply 2	S5580X-32P4X4YC-HI		S5580X-48P4YC-HI	
		Total PoE power capacity	PoE ports quantity	Total PoE power capacity	PoE ports quantity
			90W (802.3bt): 11		90W (802.3bt): 11
PSR920-54A-B	PSR920-54A-B	1620W	15.4W (802.3af): 32	1620W	15.4W (802.3af): 48
			30W (802.3at): 32		30W (802.3at): 48
			60W (802.3bt): 27		60W (802.3bt): 27
			90W (802.3bt): 18		90W (802.3bt): 18
PSR920-54A-B	PSR1600-54A-B (Input Voltage: 90V AC~176V AC)	1280W	15.4W (802.3af): 32	1280W	15.4W (802.3af): 48
			30W (802.3at): 32		30W (802.3at): 42
			60W (802.3bt): 21		60W (802.3bt): 21
			90W (802.3bt): 14		90W (802.3bt): 14
PSR920-54A-B	PSR1600-54A-B (Input Voltage: 176V AC~290V AC or 180V DC~320V DC)	1620W	15.4W (802.3af): 32	1620W	15.4W (802.3af): 48
			30W (802.3at): 32		30W (802.3at): 48
			60W (802.3bt): 27		60W (802.3bt): 27
			90W (802.3bt): 18		90W (802.3bt): 18
PSR1600-54A-B (Input Voltage: 90V AC~176V AC)	PSR1600-54A-B (Input Voltage: 90V AC~176V AC)	1620W	15.4W (802.3af): 32	1620W	15.4W (802.3af): 48
			30W (802.3at): 32		30W (802.3at): 48
			60W (802.3bt): 27		60W (802.3bt): 27
			90W (802.3bt): 18		90W (802.3bt): 18
PSR1600-54A-B (Input Voltage: 90V AC~176V AC)	PSR1600-54A-B (Input Voltage: 176V AC~290V AC or 180V DC~320V DC)	1620W	15.4W (802.3af): 32	1620W	15.4W (802.3af): 48
			30W (802.3at): 32		30W (802.3at): 48
			60W (802.3bt): 27		60W (802.3bt): 27
			90W (802.3bt): 18		90W (802.3bt): 18
PSR1600-54A-B (Input Voltage: 176V AC~290V AC or 180V DC~320V DC)	PSR1600-54A-B (Input Voltage: 176V AC~290V AC or 180V DC~320V DC)	2870W	15.4W (802.3af): 32	2870W	15.4W (802.3af): 48
			30W (802.3at): 32		30W (802.3at): 48
			60W (802.3bt): 32		60W (802.3bt): 47
			90W (802.3bt): 31		90W (802.3bt): 31

Standards and protocols compliance

Organization	Standards and protocols
IEEE	IEEE 802.1D (STP) IEEE 802.1p (CoS) IEEE 802.1Q (VLANs)

Organization	Standards and protocols
	IEEE 802.1s (MSTP) IEEE 802.1w (RSTP) IEEE 802.1X (Security) IEEE 802.3ad (LACP) IEEE 802.3u (Fast Ethernet 100BASE-T/100BASE-TX) IEEE 802.3ab (1000BASE-T) IEEE 802.3x (Flow Control) IEEE 802.3z (1000BASE-SX, 1000BASE-LX) IEEE 802.3by(25 Gb/s)
RFC	RFC1771 (BGPv4) RFC1772 (Application of the BGP) RFC1965 (BGPv4 autonomous system confederations) RFC1997 (Communities attribute) RFC2385 (Transmission Control Protocol (TCP) MD5 authentication for BGP) RFC2439 (Route flap dampening) RFC2796 (Route reflection) RFC1657 (Definitions of Managed Objects for BGPv4) RFC2328 (OSPF v2) RFC1587 (OSPF NSSA) RFC2370 (OSPF opaque link-state advertisement (LSA) option) RFC1850 (OSPF v2 Management Information Base (MIB), traps) ISO10589 (IS-IS) RFC1195 (IS-IS) RFC2973 (IS-IS mesh groups) RFC1058 (RIP v1) RFC1723 (RIP v2) RFC2453 (RIP v2) RFC2083 (PNG (Portable Network Graphics) Specification Version) RFC791 (IP) RFC792 (ICMP) RFC793 (TCP) RFC768 (UDP) RFC826 (ARP) RFC783 (TFTP) RFC854 (Telnet) RFC894 (IP Over Ethernet)

Organization	Standards and protocols
	RFC950 (Internet Standard Subnetting Procedure) RFC959 (FTP) RFC1141 (Incremental updating of the Internet checksum) RFC1122 (Requirements for Internet Hosts -Communication Layers) RFC1256 (ICMP Router Discovery Messages) RFC1393 (Trace route Using an IP Option) RFC 1812 (IPv4) RFC 2338 (VRRP) RFC 2787 (Definitions of Managed Objects for VRRP) RFC 2474 (Diffserv) RFC 2131 (DHCP) RFC 2132 (DHCP and BOOTP Extension) RFC2280 (Routing Policy Specification Language (RPSL)) RFC1305 (NTPv3) RFC1157 (SNMP) RFC857 (Telnet Echo Option) RFC858 (Telnet Suppress Go Ahead Option) RFC1093 (NSFNET routing architecture) RFC 2138 (Radius Authentication) RFC 2139 (Radius Accounting) RFC1492 (TACACS) RFC 1518, 1519 (CIDR) RFC 2622 (Routing policy) RFC 2338 (VRRP) RFC 1112 (Host extensions for IP multicasting) RFC 2236 (Internet Group Management Protocol, Version 2) RFC 2715 (Interoperability Rules for Multicast Routing Protocols) RFC 2362 (PIM-SM) Draft (PIM-DM: draft-ietf-idmr-pim-dm-06) RFC 2283 (Multi-protocol Extensions for BGPv4) RFC 2267 (Network Ingress Filtering) RFC2474 (Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers) RFC2475 (Architecture for Differentiated Service) RFC3168 (The Addition of Explicit Congestion Notification (ECN) to IP) RFC2702 (Requirements for Traffic Engineering Over MPLS) RFC3031 (Multi-protocol Label Switching Architecture)

Organization	Standards and protocols
	RFC3032 (MPLS Label Stack Encoding) RFC3033 (The Assignment of the Information Field and Protocol Identifier in the Q.2941 Generic Identifier and Q.2957 User-to-user Signaling for the Internet Protocol) RFC3036 (LDP Specification) RFC3037 (LDP Applicability) RFC2547 (BGP/MPLS VPN) RFC2764 (A Framework for IP Based Virtual Private Networks) RFC2796 (BGP Route Reflection - An Alternative to Full Mesh IBGP) RFC2842 (Capabilities Advertisement with BGPv4) RFC2858 (Multi-protocol Extensions for BGPv4) RFC2917 (A Core MPLS IP VPN Architecture) RFC2918 (Route Refresh Capability for BGPv4) RFC3107 (Carrying Label Information in BGPv4) Draft (Draft-martini-l2circuit-trans-mpls-08.txt) Draft (Draft-martini-l2circuit-encap-mpls-04.txt) Draft (Draft-kompella-ppvnp-l2vpn-01.txt) RFC2080 (RIPng for IPv6) RFC1981 (Path MTU Discovery for IP version 6) RFC2460 (Internet Protocol, Version 6 (IPv6) Specification) RFC2461 (Neighbor Discovery for IP Version 6 (IPv6)) RFC2462 (IPv6 Stateless Address Auto configuration) RFC2463 (Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification) RFC2545 (BGP support IPv6) RFC2740 (OSPF for IPv6) RFC3513 (Internet Protocol Version 6 (IPv6) Addressing Architecture) RFC3596 (DNS Extensions to Support IP Version 6) Draft (Draft-ietf-isis-ipv6-04.txt) 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)

Organization	Standards and protocols
	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) RFC2452 (MIB for TCP6) RFC2454 (MIB for UDP6) RFC2466 (MIB for ICMP6)
MIB	HH3C-FLASH-MAN-MIB HH3C-ISSU-MIB HH3C-SYS-MAN-MIB HH3C-UI-MAN-MIB RFC1213-MIB HH3C-CONFIG-MAN-MIB HH3C-LICENSE-MIB HH3C-INFOCENTER-MIB HH3C-LSW-DEV-ADM-MIB HH3C-LswDEVM-MIB HH3C-LswTRAP-MIB HH3C-POWER-ETH-EXT-MIB HH3C-RES-MON-MIB HH3C-TRANSCEIVER-INFO-MIB HH3C-TRAP-MIB POWER-ETHERNET-MIB SYSLOG-MSG-MIB ENTITY-MIB HH3C-COMMON-SYSTEM-MIB HH3C-ENTITY-EXT-MIB HH3C-ENTRELATION-MIB HH3C-LswINF-MIB HH3C-STORM-CONSTRAIN-MIB

Organization	Standards and protocols
	IF-MIB HH3C-IF-EXT-MIB HH3C-LswMAM-MIB HH3C-LswMSTP-MIB HH3C-LswVLAN-MIB HH3C-MAC-INFORMATION-MIB HH3C-MLAG-MIB HH3C-PROTOCOL-VLAN-MIB HH3C-PVST-MIB HH3C-QINQV2-MIB HH3C-SUBNET-VLAN-MIB HH3C-VMAP-MIB IEEE8023-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 BRIDGE-MIB EtherLike-MIB HH3C-LAG-MIB HH3C-LLDP-EXT-MIB HH3C-LPBKDT-MIB HH3C-DNS-MIB HH3C-IP-ADDRESS-MIB HH3C-IPV6-ADDRESS-MIB IP-FORWARD-MIB IP-MIB IPV6-ICMP-MIB IPV6-MIB IPV6-TCP-MIB IPV6-UDP-MIB TCP-MIB UDP-MIB

Organization	Standards and protocols
	HH3C-ARP-RATELIMIT-MIB HH3C-DHCP4-MIB HH3C-DHCP-SNOOP2-MIB ISIS-MIB OSPF-MIB OSPF-TRAP-MIB OSPFV3-MIB RIPv2-MIB BGP4-MIB HH3C-IPRAN-DCN-MIB HH3C-MULTICAST-SNOOPING-MIB IGMP-STD-MIB IPMCAST-MIB IPV6-MLD-MIB MGMD-STD-MIB PIM-BSR-MIB PIM-STD-MIB HH3C-LswIGSP-MIB HH3C-MPM-MIB HH3C-VXLAN-MIB HH3C-BGP-EVPN-MIB HH3C-IFQOS2-MIB HH3C-QOS-CAPABILITY-MIB IEEE8021-CN-MIB HH3C-ACL-MIB HH3C-CBQOS2-MIB HH3C-TUNNEL-MIB HH3C-RADIUS-MIB HH3C-USER-MIB IEEE8021-PAE-MIB RADIUS-ACC-CLIENT-MIB RADIUS-AUTH-CLIENT-MIB HH3C-8021X-EXT2-MIB HH3C-DOMAIN-MIB HH3C-PORT-SECURITY-MIB HH3C-IKE-MONITOR-MIB

Organization	Standards and protocols
	HH3C-IPSEC-MONITOR-V2-MIB HH3C-SESSION-MIB HH3C-SSH-MIB HH3C-BFD-STD-MIB HH3C-DLDP2-MIB HH3C-RRPP-MIB HH3C-SMLK-MIB VRRP-MIB DOT3-OAM-MIB HH3C-MIRRORGROUP-MIB HH3C-NQA-MIB HH3C-NTP-MIB HH3C-RMON-EXT2-MIB RMON2-MIB RMON-MIB SFLOW-MIB StationSW-MIB DISMAN-EVENT-MIB DISMAN-PING-MIB DISMAN-TRACEROUTE-MIB
EMC	FCC Part 15 (CFR 47) Class A EN 55022 Class A 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

Organization	Standards and protocols
	ETSI EN 300 386 V1.3.2:2003 IEC 61000-3-2 IEC 61000-3-3
Safety	EN 60950:2000 EN 60825-1:1993+A1:1997 and EN 60825-2:2000 UL 60950 3rd Edition CSA C22.2 No. 60950 3rd Edition IEC 60950: 1999 AS/NZS 3260

Ordering information

Item		Description
Product code	LS-5580X-32P4X4YC-HI	H3C S5580X-32P4X4YC-HI L3 Ethernet Switch with 32*10/100/1000Base-T PoE++ Ports,4*1G/10GBase-X SFP Plus Ports,4*10G/25GBase-X SFP28 Ports and 1*Slot, Without Power Supplies
	LS-5580X-48P4YC-HI	H3C S5580X-48P4YC-HI L3 Ethernet Switch with 48*10/100/1000Base-T PoE++ Ports,4*10G/25GBase-X SFP28 Ports and 1*Slot, Without Power Supplies
	LS-5580X-32T4X4YC-HI	H3C S5580X-32T4X4YC-HI L3 Ethernet Switch with 32*10/100/1000Base-T Ports,4*1G/10GBase-X SFP Plus Ports ,4*10G/25GBase-X SFP28 Ports and 1*Slot, Without Power Supplies
	LS-5580X-48T4YC-HI	H3C S5580X-48T4YC-HI L3 Ethernet Switch with 48*10/100/1000Base-T Ports,4*10G/25GBase-X SFP28 Ports and 1*Slot, Without Power Supplies
	LS-5580X-32S8T4X4YC-HI	H3C S5580X-32S8T4X4YC-HI L3 Ethernet Switch with 32*100/1000Base-X SFP Ports,8*10/100/1000Base-T Combo Ports,4*1G/10GBase-X SFP Plus Ports,4*10G/25GBase-X SFP28 Ports and 1*Slot,Without Power Supplies
	LS-5580X-48S4YC-HI	H3C S5580X-48S4YC-HI L3 Ethernet Switch with 48*100/1000Base-X SFP Ports,4*10G/25GBase-X SFP28 Ports and 1*Slot,Without Power Supplies
Fan	LSPM1FANSB-SN	H3C Fan Module (Fan Panel Side Exhaust Airflow)
	LSPM1FANSA-SN	H3C Fan Module (Fan Panel Side Intake Airflow)
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,1600W/56V PoE Power Supply
	PSR180-12A-B	180W Asset-Manageable AC Power Supply Module (Power Panel Side Exhaust Airflow)
	PSR180-12A-F	180W Asset-Manageable AC Power Supply Module (Power Panel Side Intake Airflow)
	PSR180-12D-B	180W Asset-Manageable DC Power Supply
Modules	LSWM2QP2P	2-Port 40G QSFP Plus Interface Card

Item		Description
	LSWM2XMGT8P	8-Port 1/2.5/5/10G BASE-T Ethernet Copper Interface Module
	LSWM2ZQP2P	2 Ports 100G QSFP28 Interface Module
	LSWM2ZSP8P	8 Ports 25G SFP28 Interface Module
	LSWM4SP8PM	8-Port 10G SFP Plus with MACSec Interface Module
	LSWM2SP8P	8-Port 10G SFP Plus Interface Card

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

Datasheet history

Description	Location	Date
First release	Full document	June, 2024
Replace the datasheet with a new template	Full document	June, 2026
Update the specification	Full document	June, 2026



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