

H3C S6526XE-HI Series Advanced Aggregation 10GE Switches

Product overview

H3C S6526XE-HI series switches Industry-leading high performance and scalable 10GE access switching solution with modular dual power, fixed or modular uplinks (10GE/40GE/100GE) and IRF for resiliency. The series offers OSPF/BGP and multicast, SDN enabled and flexible management.

H3C S6526XE-HI series switches include the following models:

H3C S6526XE-32X6CC-HI

32 × 1G/10G SFP+ Ports, 6 × 40G/100G QSFP28 Ports, and 1 × Slot.

H3C S6526XE-48X6CC-HI

48 × 1G/10G SFP+ Ports, 6 × 40G/100G QSFP28 Ports, and 1 × Slot.

Views

	
S6526XE-32X6CC-HI	S6526XE-48X6CC-HI

Features and highlights

Open application architecture

In H3C open application architecture (OAA), the switch can accommodate high-performance OAP modules to offer dedicated services such as firewall, IPS, or load balancing in addition to conventional forwarding services. By installing OAP modules, the customers can use the switch as a multiservice device without having to buy separate service appliances, such as a firewall device.

High-density 10GE forwarding

H3C S6526XE-HI series switches offer high-density 10GE forwarding and can expand 10GE ports flexibly. It provides 48/32*10/1GE autosensing SFP+ ports, 6*QSFP28 ports with one expansion slots that support up to modules range from GE to 10GE, 25GE, 40GE, 100GE and Multigigabit ports. Using a QSFP+ to SFP+ splitter cable, you can split a QSFP+ port into four line-rate 10GE SFP+ ports. Max 72*10GE supported on one single switch.

Embedded access controller

H3C S6526XE-HI series switches implement the WLAN function by installing an AC feature pack on the main control unit, thereby implementing both the wired function and the WLAN function on a single device. Embedded AC is a low-cost WLAN solution, save overall investment, improve forwarding capacity, realized a true unified wired and wireless solution in Campus. Max 2K APs supported on one single switches.

H3C intelligent resilient framework 2 (IRF 2)

H3C Intelligent Resilient Framework 2 (IRF 2) virtualizes multiple S6526XE-HI switches into one virtual switch and provides the following benefits.

Scalability

IRF 2 allows you to add devices to the IRF 2 system easily. It provides a single point of management, enables switch plug-and-play, and supports software auto-update for software synchronization from the master to the new member devices. It brings business agility with lower total cost of ownership by allowing new switches to be added to the fabric without network topology change as business grows.

High availability

The H3C proprietary routing hot backup technology ensures redundancy and backup of all information on the control and data planes and non-stop Layer 3 data forwarding in an IRF 2 fabric. It also eliminates single point of failure and ensures service continuity.

Redundancy and load balancing

The distributed link aggregation technology supports load sharing and mutual backup among multiple uplinks, which

enhances the network redundancy and improves link resources usage.

Flexibility and resiliency

H3C S6526XE-EI series switches use standard ports instead of specialized ports for IRF links between IRF member devices. This allows customers to assign bandwidth as needed between uplink, downlink, and IRF system connections. In addition, an S6526XE-HI IRF fabric can span a rack, multiple racks, or multiple campuses.

Wide range of advanced features

H3C S6526XE-HI series switches offer a wide range of features, including:

Modular hardware and software design

H3C S6526XE-EI series switches use modular, hot swapping, and redundancy design for hardware, including power modules and fan trays. The switch also uses modular design for software, which enables feature installation and removal on an as-needed basis. Refined physical architecture and optimized software workflows greatly reduce the end-to-end packet processing delay.

Software-defined networking (SDN)

An innovative network architecture that separates the control plane from the forwarding plane, typically by using OpenFlow. SDN significantly simplifies network management, reduces maintenance complexities and costs, enables flexible traffic management, and offers a good platform for network and application innovations.

Virtual eXtensible LAN (VXLAN)

A MAC-in-UDP technology that provides Layer 2 connectivity between distant network sites across an IP network. VXLAN enables long-distance virtual machine and data mobility and is typically used in data centers and the access layer of campus networks for multitenant services. The H3C implementation of VXLAN supports automatic VXLAN tunnel establishment with EVPN.

Ethernet virtual private network (EVPN)

A Layer 2 VPN technology that provides both Layer 2 and Layer 3 connectivity between distant network sites across an IP network. EVPN uses MP-BGP in the control plane and VXLAN in the data plane. EVPN provides the following benefits: Configuration automation; Separation of the control plane and the data plane; Integrated routing and bridging (IRB).

In-service software upgrade (ISSU)

In-Service Software Upgrade (ISSU) and Operation, Administration, and Maintenance (OAM): Ensure business continuity and improve Ethernet management and maintainability.

Cloud Management (Cloudnet)

H3C S6526XE-HI 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 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.

Comprehensive security control policies

H3C S6526XE-HI series switches support AAA authentications (including RADIUS authentication) and dynamic or static binding of user identifiers such as user account, IP address, MAC address, VLAN, and port number. Using the switch in conjunction with H3C IMC, you can manage and monitor online users in real time and take prompt action on illegitimate behaviors.

H3C S6526XE-HI series switches offer significant inbound and outbound ACLs and VLAN-based ACL assignment. This simplifies configurations and saves ACL resources.

High availability

In addition to node and link protection, the switch offers the following hardware high availability features:

- 1+1 power module redundancy and N+1 fan tray redundancy.
- Hot-swappable interface modules.
- Automatic power and fan tray status monitoring and alarming mechanisms.
- Automatic fan speed adjustment based on the change in temperature.
- Self-protection mechanisms that protect power modules against overcurrent, overvoltage, and overtemperature conditions.

Outstanding management capacity

H3C S6526XE-HI series switches provide a variety of management features and is easy to manage. It offers the following device management features:

- Provides multiple management interfaces, including the console port, Type-C console port, out-of-band management Ethernet port, and USB port.
- Supports configuration and management from CLI or H3C IMC Intelligent Management Center.
- Supports multiple access methods, including SNMPv1/v2c/v3, Telnet, and more secure SSH 2.0 and SSL.
- Uses OAM to enhance system management capability.
- Supports FTP/SFTP/TFTP for system upgrade.

Smart management center (SmartMC)

SmartMC is H3C's latest offering and innovation that helps small and middle size enterprise network to address management issue and is free of charge, easy to use web management tool. SmartMC is embedded network management tool into the switch, it includes commander switches and other access switches.

SmartMC delivers the following benefits

Intelligent operation

Once the switch is powered on and SmartMC function is enabled, topology will be created automatically, and user can go enhanced web GUI to check the latest status.

Centralized management

All management can be achieved via commander switch such as centralized configuration backup, and software version management, increasing working efficiency.

One key device replacement

In case of one switch failure, the new added same type switch can download the same configuration and work as old switch immediately.

Precision Time Protocol (PTP)

H3C S6526XE-HI series switches support the 1588V2 function to meet the high-precision time synchronization requirements between network devices. Compared with GPS time synchronization with the same precision, it improves security and lowers deployment costs.

Intelligent Network Quality Analyzer (iNQA)

H3C S6526XE-HI series switches support 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

iNQA can be applied to multiple scenarios, such as point-to-point, point-to-multipoint, and multipoint-to-multipoint.

Multichassis link aggregation group (M-LAG)

H3C S6526XE-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 S6526XE-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.

Technical specifications

Hardware specifications

Item	S6526XE-32X6CC-HI	S6526XE-48X6CC-HI
Port switching capacity	2240Gbps	2560Gbps
Packet forwarding rate	1002Mpps	1002Mpps
System switching capacity	2.56Tbps	
CPU	Quad core, 2GHz	
SDRAM	4GB	
Flash	4GB	
Packet buffer	32M	

Item	S6526XE-32X6CC-HI	S6526XE-48X6CC-HI
Latency	10GE:<3 (64byte/us) 100GE:<1 (64byte/us)	
Dimensions (H × W × D)	44 × 440 × 400 mm (1.73 × 17.32 × 15.75 in)	
Weight	≤ 7.9 kg	≤ 8.1 kg
Console ports	1 RJ45 and 1 Type-C	
Management Ethernet ports	1 RJ45 port (Out of Band)	
USB ports	1	
SFP+	32	48
QSFP28	6	6
Latency (64byte LIFO)	10GE:<3μs 100GE:<1μs	
Expansion slots	1	1
Input voltage range	AC: Rated: 100 VAC to 240 VAC @ 50 Hz/60 Hz Max: 90 VAC to 264 VAC @ 47 Hz to 63 Hz	
	HVDC: Rated voltage range: 240V DC Max voltage range: 180V~320V DC	
	DC: Rated voltage range: -48 to -60 VDC Max voltage range: -36 to -72 VDC	
Power supply slots	2, 1+1 hot swappable	
Fan trays	4, N+1 hot swappable	
Power consumption (static) Data collection standard: no load	Single AC: 89W Dual AC: 90W Single DC: 86W Dual DC: 98W	Single AC: 85W Dual AC: 89W Single DC: 83W Dual DC: 96W
Power consumption (with typical configuration) Data collection standard: fully configured with DAC cables or twisted pair cables, 30% loaded	Single AC: 117W Dual AC: 125W Single DC: 123W Dual DC: 126W	Single AC: 118W Dual AC: 129W Single DC: 124W Dual DC: 131W
Power consumption (fully configured) Data collection standard: fully configured with transceiver modules or twisted pair cables, 100% loaded	Single AC: 237W Dual AC: 242W Single DC: 249W Dual DC: 256W	Single AC: 251W Dual AC: 255W Single DC: 262W Dual DC: 265W
MTBF(Year)	116.18	110.03

Item	S6526XE-32X6CC-HI	S6526XE-48X6CC-HI
MTTR(Hour)	1	1
Operating temperature	-5°C to 45°C (23°F to 113°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)	
Operating & storage 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	S6526XE-HI series switches
Layer2 fetures	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) Super VLAN Private VLAN Voice VLAN QinQ (802.1Q-in-802.1Q) 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 (VLAN and VXLAN network) 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+)

Item	S6526XE-HI series switches
	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 DCBX (Data Center Bridging Exchange Protocol) Broadcast/multicast/unknown unicast storm constrain Jumbo frame Store-and-forward (Default) Cut-through-forward
Ethernet link aggregation	static aggregation dynamic aggregation 10GE/25G/40GE/100GE port aggregation LACP (Link Aggregation Control Protocol) S-MLAG M-LAG (Multichassis Link Aggregation)
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) DDNS (Dynamic Domain Name System) mDNS (Multicast Domain Name System) NAT (Network Address Translation) 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

Item	S6526XE-HI series switches
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, IS-ISv6, and BGP4+ Pingv6, Telnetv6, FTPv6, TFTPv6, DNSv6, ICMPv6 Dual-stack PBR
Multicast	PIM-DM, PIM-SM, PIM-SSM, and Any-RP PIM snooping MSDP (Multicast Source Discovery Protocol) 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
ACL/QoS	ACL (Access Control List) advanced ACL User-defined ACL Ingress and Egress ACL Ingress/Egress CAR Diff-Serv QoS 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, WFQ, SP+WRR

Item	S6526XE-HI series switches
	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) Static CRLSP LDP (Label Distribution Protocol) IPv6 LDP Tunnel policy VRF MPLS L2VPN MPLS L3VPN MPLS Ping/Tracert MCE (Multi-VPN Instance Customer Edge) IPv6 MCE MPLS OAM MPLS TE
Segment Routing	SR-MPLS
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) HTTPs Public Key Infrastructure (PKI) Control Plane Protection (CoPP), Wireless Intrusion Prevention System (WIPS)

Item	S6526XE-HI series switches
	Attack detection and prevention TCP attack prevention IPSG (IP source guard) IPv6 RA Guard ARP attack protection ND attack protection uRPF (Unicast Reverse Path Forwarding) MFF (MAC-forced forwarding) SAVI (Source Address Validation Improvement) FIPS (Federal Information Processing Standards) MACsec (Media Access Control Security) (With MACsec interface card) Microsegmentation Hierarchical user management and password protection EAD (Endpoint Admission Defense) Basic and advanced ACLs for packet filtering OSPF, RIPv2, BGPv4 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/BGP/IS-IS/OSPF/RSVP/static routing, with a failover detection time less than 50 milliseconds Track Process redundancy/placement CPU protection Hot patching Link aggregation VCT (virtual cable test) Smart-Link Secure boot

Item	S6526XE-HI series switches
	ISSU (In-Service Software Upgrade)
Network management	NQA (Network quality analyzer) iNQA (Intelligent Network Quality Analyzer) performance management through gRPC or NETCONF NTP (Network Time Protocol) PTP (Precision Time Protocol) IEEE 1588 version 2/IEEE 802.1AS/SMPTE ST 2059-2/AES67-2015 SNMPv1/SNMPv2c/SNMPv3 RMON (Remote Network Monitoring) and groups 1,2,3 and 9 NETCONF/YANG EAA (Embedded Automation Architecture) Port mirroring SPAN (Switch Port Analyzer)/RSPAN (Remote SPAN) Flow mirroring NetStream/IPv6 NetStream sFlow Information center VCF (Virtual Converged Framework) CWMP (CPE WAN Management Protocol/TR-069) Fault alarm and automatic fault recovery System logs Alarming based on severity Power, fan, and temperature alarming Debugging information output Device status monitoring mechanism, including the CPU engine, backplane, chips and other key components Configuration through CLI, Telnet, and console port Zero Touch Provisioning Loading and upgrading through XModem/FTP/TFTP/SFTP/USB Embedded AC, maximum support management 2K AP iMC network management system SmartMC (embedded Smart Graphical Management Center) LLDP-MIB Entity MIB No additional license required for switch software and hardware
Stacking	Intelligent Resilient Framework 2 (IRF 2) (fast convergence within 50ms) Distributed device management Distributed link aggregation Distributed resilient routing

Item	S6526XE-HI series switches
	Stacking through standard Ethernet ports Local device stacking and remote device stacking LACP-, BFD-, and ARP-based multi-active detection (MAD)
Automatic configuration	Server-based automatic configuration USB-based automatic configuration
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
VXLAN	VXLAN L2 switching VXLAN L3 routing Centralized VXLAN gateway Distributed VXLAN gateway VXLAN M-LAG VXLAN-DCI OVSDB (Open vSwitch Database) VXLAN VTEP MP-BGP EVPN control plane EVPN VXLAN EVPN M-LAG EVPN VPLS EVPN VPWS MVXLAN
Intelligent lossless network	PFC (Priority-based Flow Control) ECN (Explicit Congestion Notification) IPCC (Intelligent Proactive Congestion Control) iNOF (Intelligent Lossless NVMe Over Fabric)
EMC	FCC Part 15 Subpart B CLASS A ICES-003 CLASS A VCCI CLASS A CISPR 32 CLASS A

Item	S6526XE-HI series switches
	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	UL 62368-1 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	S6526XE-HI Series Switches
MAC address entries(max)	281K
VLAN table	4K
VLAN interface	4K
IPv4 routing entries(max)	351K
IPv4 ARP entries(max)	64K
IPv4 multicast L2 entries	8000
IPv4 multicast L3 entries	16000
OSPFv2 process	512
OSPFv2 area	512
OSPFv2 peer	512
IPv6 unicast routing entries(max)	130K
IPv6 ND entries(max)	48K
IPv6 multicast L2 entries	8000
IPv6 multicast L3 entries	8000
OSPFv3 process	512

Item	S6526XE-HI Series Switches
OSPFv3 area	512
OSPFv3 peer	512
QOS forward queue	8
Jumbo frame length	9216
MAX num in one link group	32
Link group num	128
Max stacking member	9
Max stacking bandwidth	600Gbps

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 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 802.3ah Ethernet in the First Mile 802.3x Full Duplex and flow control 802.3af Power over Ethernet 802.3at Power over Ethernet 802.3bt Power over Ethernet 802.3az Energy Efficient Ethernet 802.3u 100BASE-T 802.3ab 1000BASE-T 802.3z 1000BASE-X 802.3ae 10-Gigabit Ethernet 802.3by 25 Gbps

Organization	Standards and protocols
	802.3ba 40/100G Ethernet
IETF	RFC 1213 MIB-2 Stands for Management Information Base RFC 2374 An IPv6 Aggregatable Global Unicast Address Format RFC 2570 Introduction to Version 3 of the Internet-standard Network Management Framework RFC 2711 IPv6 Router Alert Option RFC 2787 Definitions of Managed Objects for the Virtual Router Redundancy Protocol RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers RFC 2918 Route Refresh Capability for BGP-4 RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations RFC 2934 Protocol Independent Multicast MIB for IPv4 RFC 3101 OSPF Not-so-stubby-area option RFC 3019 MLDv1 MIB RFC 3046 DHCP Relay Agent Information Option RFC 3056 Connection of IPv6 Domains via IPv4 Clouds RFC 3065 Autonomous System Confederation for BGP RFC 3137 OSPF Stub Router Advertisement sFlow RFC 3376 IGMPv3 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 3587 IPv6 Global Unicast Address Format RFC 3623 Graceful OSPF Restart RFC 3768 Virtual Router Redundancy Protocol (VRRP) RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6 RFC 3973 PIM Dense Mode 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 4271 A Border Gateway Protocol 4 (BGP-4)

Organization	Standards and protocols
	RFC 4273 Definitions of Managed Objects for BGP-4 RFC 4291 IP Version 6 Addressing Architecture RFC 4292 IP Forwarding Table MIB RFC 4293 Management Information Base for the Internet Protocol (IP) RFC 4360 BGP Extended Communities Attribute RFC 4419 Key Exchange for SSH RFC 4443 ICMPv6 RFC 4456 BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP) RFC 4486 Subcodes for BGP Cease Notification Message RFC 4541 IGMP & MLD Snooping Switch RFC 4552 Authentication/Confidentiality for OSPFv3 RFC 4601 PIM Sparse Mode RFC 4607 Source-Specific Multicast for IP RFC 4724 Graceful Restart Mechanism for BGP RFC 4750 OSPFv2 MIB partial support no SetMIB RFC 4760 Multiprotocol Extensions for BGP-4 RFC 4861 IPv6 Neighbor Discovery RFC 4862 IPv6 Stateless Address Auto-configuration RFC 4940 IANA Considerations for OSPF RFC 5059 Bootstrap Router (BSR) Mechanism for PIM, PIM WG RFC 5065 Autonomous System Confederation for BGP 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 5492 Capabilities Advertisement with BGP-4 RFC 5519 Multicast Group Membership Discovery MIB (MLDv2 only) 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(NTPv4) RFC 6620 FCFS SAVI RFC 6987 OSPF Stub Router Advertisement RFC6020 YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF) RFC7348 Virtual eXtensible Local Area Network (VXLAN): A Framework for Overlaying Virtualized Layer 2 Networks over Layer 3 Networks RFC7432 BGP MPLS-Based Ethernet VPN RFC4664 Framework for Layer 2 Virtual Private Networks (L2VPNs)

Organization	Standards and protocols
	RFC4665 Service Requirements for Layer 2 Provider Provisioned Virtual Private Networks RFC4761 Virtual Private LAN Service (VPLS) Using BGP for Auto-Discovery and Signaling RFC4762 Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling RFC5120 M-ISIS: Multi Topology (MT) Routing in Intermediate System to Intermediate Systems (IS-ISs) RFC5280 Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile RFC5308 Routing IPv6 with IS-IS RFC5381 Experience of Implementing NETCONF over SOAP RFC5415 Control and Provisioning of Wireless Access Points (CAPWAP) Protocol Specification
MIB	HH3C-CONFIG-MAN-MIB HH3C-FLASH-MAN-MIB HH3C-FTPS-MIB HH3C-GIR-MIB HH3C-ISSU-MIB HH3C-RBAC-MIB HH3C-SYS-MAN-MIB HH3C-TELNET-MIB HH3C-UI-MAN-MIB RFC1213-MIB StationSW-MIB ENTITY-MIB HH3C-COMMON-SYSTEM-MIB HH3C-ENTITY-EXT-MIB HH3C-INFOCENTER-MIB HH3C-LSW-DEV-ADM-MIB HH3C-LSWDEV-MIB HH3C-LSWTRAP-MIB HH3C-RES-MON-MIB HH3C-TRANSCEIVER-INFO-MIB HH3C-TRAP-MIB POWER-ETHERNET-MIB SYSLOG-MSG-MIB HH3C-CLUSTER-MIB HH3C-CONTEXT-MIB HH3C-LswMix-MIB HH3C-MAD-MIB HH3C-STACK-MIB

Organization	Standards and protocols
	HH3C-IF-EXT-MIB HH3C-LSWINF-MIB HH3C-STORM-CONSTRAIN-MIB HH3C-T1-MIB IF-MIB BRIDGE-MIB EtherLike-MIB HH3C-DRNI-MIB HH3C-LAG-MIB HH3C-LPBKDT-MIB HH3C-LSWMAM-MIB HH3C-LSWMSTP-MIB HH3C-LSWVLAN-MIB HH3C-MAC-INFORMATION-MIB HH3C-MAC-TRAP-MIB HH3C-MLAG-MIB HH3C-PROTOCOL-VLAN-MIB HH3C-QINQV2-MIB HH3C-SUBNET-VLAN-MIB HH3C-VMAP-MIB HH3C-VOICE-VLAN-MIB EEE8021-CFM-MIB EEE8021-CFM-V2-MIB IEEE8023-LAG-MIB LLDP-EXT-DOT1-EVB-EXTENSIONS-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 MAU-MIB P-BRIDGE-MIB Q-BRIDGE-MIB RBRIDGE-MIB

Organization	Standards and protocols
	HH3C-ARP-RATELIMIT-MIB HH3C-ARP-SOURCE-SUPPRESSION-MIB HH3C-ARP-SUPPRESSION-MIB HH3C-ARP-TRAP-MIB HH3C-DHCP4-CLIENT-MIB HH3C-DHCP4-MIB HH3C-DHCP-SNOOP2-MIB HH3C-DNS-MIB HH3C-FIB-MIB HH3C-IP-ADDRESS-MIB HH3C-IPFW-MIB HH3C-IPV6-ADDRESS-MIB HH3C-NAT-MIB HH3C-ND-TRAP-MIB HH3C-SESSION-MIB HH3C-TCP-MIB P-FORWARD-MIB P-MIB PV6-ICMP-MIB IPV6-MIB PV6-TCP-MIB PV6-UDP-MIB TCP-MIB UDP-MIB BGP4-MIB HH3C-BGP-VPN-MIB HH3C-ISIS-MIB HH3C-OSPF-MIB HH3C-OSPFv3-MIB HH3C-PBR-MIB HH3C-RIB-MIB ISIS-MIB OSPF-MIB OSPF-TRAP-MIB OSPFV3-MIB RIPv2-MIB

Organization	Standards and protocols
	HH3C-LsWIGSP-MIB HH3C-MGMD-STD-MIB HH3C-MPM-MIB HH3C-MULTICAST-SNOOPING-MIB HH3C-PIM-STD-MIB IGMP-STD-MIB IPMCAST-MIB IPV6-MLD-MIB MGMD-STD-MIB MSDP-MIB PIM-BSR-MIB PIM-STD-MIB HH3C-EVC-MIB HH3C-L2VPN-MIB HH3C-L3VPN-MIB HH3C-MPLSEXT-MIB HH3C-MPLS-LDP-MIB HH3C-MPLSLSPV-MIB HH3C-MPLSPCE-MIB HH3C-MPLSRSPV-MIB HH3C-MPLSSCRLSP-MIB HH3C-MPLSSLSP-MIB HH3C-MPLSTE-MIB HH3C-MPLS-VPN-BGP-MIB HH3C-VS1-MIB MPLS-L3VPN-STD-MIB MPLS-LDP-STD-MIB MPLS-LSR-STD-MIB MPLS-TE-STD-MIB PW-ENET-STD-MIB HH3C-VXLAN-MIB HH3C-ACL-MIB HH3C-CBQOS2-MIB HH3C-IFQOS2-MIB HH3C-QOS-CAPABILITY-MIB HH3C-TRNG2-MIB

Organization	Standards and protocols
	HH3C-8021X-EXT2-MIB HH3C-DOMAIN-MIB HH3C-PORTAL-MIB HH3C-PORT-SECURITY-MIB HH3C-RADIUS-MIB HH3C-USER-MIB IEEE8021-PAE-MIB IEEE8021-SECY-MIB EEE8021X-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-MACSEC-MIB HH3C-MICROSEGMENT-MIB HH3C-PKI-MONITOR-MIB HH3C-PORTATK-TRAP-MIB HH3C-SAVA-MIB HH3C-SSH-MIB HH3C-SSLVPN-MIB SAVI-MIB DOT3-0AM-MIB HH3C-BFD-STD-MIB HH3C-CFD-MIB HH3C-DLDP2-MIB HH3C-ERPS-MIB HH3C-ETHOAM-MIB HH3C-RRPP-MIB HH3C-SMLK-MIB VRRP-MIB DISMAN-EVENT-MIB DISMAN-PING-MIB DISMAN-TRACEROUTE-MIB HH3C-EMDI-MIB

Organization	Standards and protocols
	HH3C-ESMC-MIB HH3C-HTTP-MIB HH3C-INQA-MIB HH3C-MIRRORGROUP-MIB HH3C-NETCONF-MIB HH3C-NETSTREAM4-MIB HH3C-NETSTREAM6-MIB HH3C-NQA-MIB HH3C-NTP-MIB HH3C-PTP-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-6526XE-32X6CC-HI	H3C S6526XE-32X6CC-HI L3 Ethernet Switch with 32*1G/10G SFP+ Ports, 6*40G/100G QSFP28 Ports, and 1*Slot, Without Power Supplies
	LS-6526XE-48X6CC-HI	H3C S6526XE-48X6CC-HI L3 Ethernet Switch with 48*1G/10G SFP+ Ports, 6*40G/100G QSFP28 Ports, and 1*Slot, Without Power Supplies
Fan	LSPM1FANSA-SN	H3C Fan Module (Fan Panel Side Intake Airflow)

Item		Description
	LSPM1FANSB-SN	H3C Fan Module (Fan Panel Side Exhaust Airflow)
Power supply	PSR450-12A-GL	450W AC Power Supply Module (Power Panel Side Intake Airflow)
	PSR450-12A1-GL	450W AC Power Supply Module (Power Panel Side Exhaust Airflow)
	PSR450-12D	450W DC Power Supply Module (Power Panel Side Exhaust Airflow)
Modules	LSWM4SP8PM	8-Port 10G SFP Plus with MACSec Interface Module
	LSWM2SP8P	8-Port 10G SFP Plus Interface Module
	LSWM2QP2P	2-Port 40G QSFP Plus Interface Module
	LSWM2ZSP8P	8-Port 25G SFP28 Interface Module
	LSWM2ZQP2P	2-Port 100G QSFP28 Interface Module
	LSPM6FWDB	H3C S5000 Series SecBlade IV Next Generation Firewall B Module
Transceiver	SFP-GE-LH80-SM1550	1000BASE-LH80 SFP Transceiver, Single Mode (1550nm, 80km, LC)
	SFP-GE-LX-SM1310-A	1000BASE-LX SFP Transceiver, Single Mode (1310nm, 10km, LC)
	SFP-GE-LX-SM1310-D	1000BASE-LX SFP Transceiver, Single Mode (1310nm, 10km, LC)
	SFP-GE-LH40-SM1310	1000BASE-LH40 SFP Transceiver, Single Mode (1310nm, 40km, LC)
	SFP-GE-LH100-SM1550	1000BASE-LH100 SFP Transceiver, Single Mode (1550nm, 100km, LC)
	SFP-GE-LH40-SM1550	1000BASE-LH40 SFP Transceiver, Single Mode (1550nm, 40km, LC)
	SFP-GE-LH80-SM1550-D	1000BASE-LH80 SFP Transceiver, Single Mode (1550nm, 80km, LC)
	SFP-GE-SX-MM850-A	1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 550m, LC)
	SFP-GE-SX-MM850-D	1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 550m, LC)
	SFP-GE-LX-SM1310-BIDI	1000BASE-LX BIDI SFP Transceiver, Single Mode (TX1310/RX1490, 10km, LC)
	SFP-GE-LX-SM1490-BIDI	1000BASE-LX BIDI SFP Transceiver, Single Mode (TX1490/RX1310, 10km, LC)
	SFP-GE-T	SFP GE Copper Interface Transceiver Module (100m,RJ45)
	SFP-GE-T-D	SFP GE Copper Interface Transceiver Module (100m,RJ45)
	SFP-10GE-T	SFP+ 10GE Copper Interface Transceiver Module(Cat6a/Cat7,30m,RJ45)
	SFP-XG-CPRI-LR-SM1310	SFP+ 10G CPRI Optical Transceiver Module(-40°C to 85°C,1310nm,10km,LC)
	SFP-XG-LH80-SM1490-BIDI	10G SFP+ BIDI Optical Transceiver Module (TX1490nm/RX1550nm,80km,LC)
	SFP-XG-LH80-SM1550-BIDI	10G SFP+ BIDI Optical Transceiver Module (TX1550nm/RX1490nm,80km,LC)
	SFP-XG-LX-SM1310-E	SFP+ Module(1310nm,10km,LC)
	SFP-XG-LX-SM1310-D	SFP+ Module(1310nm,10km,LC)
	SFP-XG-LX-SM1310	SFP+ Module(1310nm,10km,LC)
	SFP-XG-LH40-SM1550	SFP+ Module(1550nm,40km,LC)
	SFP-XG-LH80-SM1550-D	SFP+ Module(1550nm,80km,LC)
	SFP-XG-SX-MM850-E	SFP+ Module(850nm,300m,LC)

Item		Description
	SFP-XG-SX-MM850-D	SFP+ Module(850nm,300m,LC)
	SFP-XG-SX-MM850-A	SFP+ Module(850nm,300m,LC)
	QSFP-100G-LR4-WDM1300	100G QSFP28 Optical Transceiver Module(1310nm,10km,LR4,WDM,LC)
	QSFP-100G-LR4L-WDM1300	100G QSFP28 Optical Transceiver Module (1310nm,2km,LR4L,CWDM4,LC)
	QSFP-100G-ER4L-WDM1300	100G QSFP28 Optical Transceiver Module (1310nm,40km,ER4L,WDM,LC)
	QSFP-100G-eSR4-MM850	100G QSFP28 Optical Transceiver Module (850nm,300m OM4,eSR4,MPO)
	QSFP-100G-SR4-MM850	100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR4,MPO)
	QSFP-40G-LR4-WDM1300	QSFP+ 40GBASE Optical Transceiver Module (1310nm,10km,LR4,LC)
	QSFP-40G-BIDI-SR-MM850	QSFP+ 40GBASE BIDI Optical Transceiver Module (850nm,100m,SR)
	QSFP-40G-LR4L-WDM1300	QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4L,LC)
	QSFP-40G-ER4-WDM1300	QSFP+ 40GBASE Optical Transceiver Module (1310nm,40km,ER4,LC)
	QSFP-40G-SR4-MM850	QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G)
	QSFP-40G-CSR4-MM850	QSFP+ 40GBASE Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G)
Cable	SFP-STACK-Kit	SFP Stacking Cable (150cm,including two 1000BASE-T SFP module and one stacking cable)
	LSWM1STK	SFP+ Cable 0.65m
	LSWM2STK	SFP+ Cable 1.2m
	LSWM3STK	SFP+ Cable 3m
	LSTM1STK	SFP+ Cable 5m
	LSWM1QSTK0	40G QSFP+ Cable 1m
	LSWM1QSTK1	40G QSFP+ Cable 3m
	LSWM1QSTK2	40G QSFP+ Cable 5m
	QSFP-40G-D-AOC-20M	40G QSFP+ to 40G QSFP+ 20m Active Optical Cable
	QSFP-40G-D-AOC-7M	40G QSFP+ to 40G QSFP+ 7m Active Optical Cable
	QSFP-100G-D-AOC-10M	100G QSFP28 to 100G QSFP28 10m Active Optical Cable
	QSFP-100G-D-CAB-1M	100G QSFP28 to 100G QSFP28 1m Passive Cable
	QSFP-100G-D-AOC-20M	100G QSFP28 to 100G QSFP28 20m Active Optical Cable
	QSFP-100G-D-CAB-3M	100G QSFP28 to 100G QSFP28 3m Passive Cable
	QSFP-100G-D-CAB-5M	100G QSFP28 to 100G QSFP28 5m Passive Cable

Datasheet history

Description	Location	Date
Replace the datasheet with a new template	Full document	September, 2025



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