



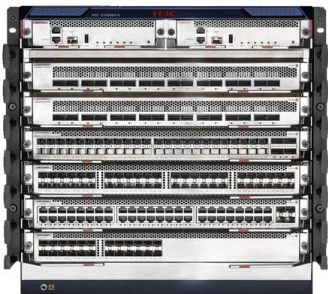
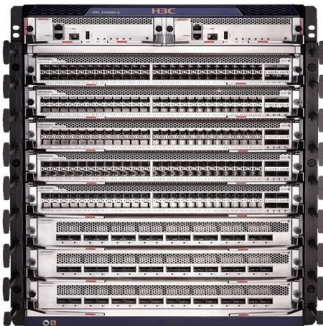
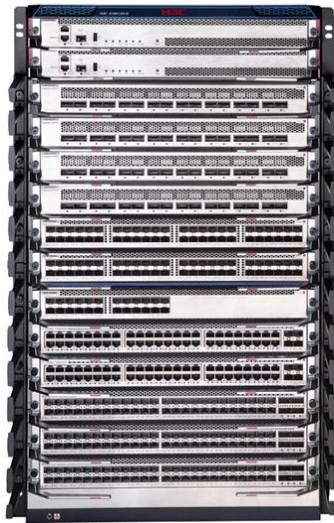
H3C S10500X-G Series Next Generation Core Switch

Product overview

H3C S10500X-G is a high-end Switch series designed for the core layer in intelligent Campuses and Data Centers. Powered by the H3C COMWARE 7 network operating system, the S10500X-G offers a comprehensive set of features tailored to both campus and data center environments, providing a secure and flexible platform for diverse types of network traffic. Architecturally, the S10500X-G adopts an industry-leading orthogonal CLOS+ forwarding architecture, ensuring long-term networking capabilities, making S10500X-G capable of building a high-performance network for years to come. In terms of services, with PoE++ capability, EERN (Enhanced Ethernet Ring Network) technology, and a variety of GE/10GE/25GE/40GE/100GE/400GE cards, along with wireless AC module, S10500X-G provides complete solutions for a wide range of scenarios. To ensure the network operating continuity, the S10500X-G delivers carrier-grade reliability, features redundant designs across key components including the Engine units (MPU), Switch Fabric units, fan trays, and power supply modules. Additionally, the S10500X-G embraces a Green and environmentally friendly design philosophy, with intelligent cooling system and reduced power consumption to promote energy efficiency.

Views

The S10500X-G series includes several different chassis models, S10506X-G, S10508X-G and S10512X-G, with different port density and performance to fit different network scales.

		
S10506X-G/S10506X-G-PoE	S10508X-G	S10512X-G/S10512X-G-PoE

Features and highlights

Advanced architecture

S10500X-G incorporates the following advanced designs:

Adopting the Data center level forwarding architecture, CLOS+ architecture and non-backplane design, separating the forwarding plane and control plane completely, giving S10500X-G high level of bandwidth scalability, helping customers build a non-blocking campus network.

Orthogonal interconnection of switching fabric modules and service card modules eliminates circuit on the backplane and thus significantly reduces signal attenuation and data transmit latency.

Compact chassis design, smaller, lighter, take S10506X-G for instance, hosts 6 line-card slots in 10U high-performance CLOS+ switch, which can also fit in a regular 600mm depth rack cabinet, greatly saving rack cabinet space.

High performance

With Data center-level forwarding architecture, non-backplane Orthogonal CLOS+, providing slot bandwidth up to 3.1Tbps* (bidirectional) on S10506X-G/S10506X-G-PoE and 4.6Tbps* (bidirectional) on S10508X-G/S10512X-G/S10512X-G-PoE.

Compliant with 40G,100G and 400G Ethernet standards, high port-density 40G, 100G line cards to build a high-speed network. The S10500X-G takes the lead in 400G Campus scenario, dramatically increases the inter-campus bandwidth, eliminates bandwidth bottleneck, also makes S10500X-G suitable for Data center scenario in the era of AI.

S10500X-G EERN solution (Enhanced Ethernet Ring Network) provides the most optimal proposal to build long distance Ring structure networks. Ring structure is widely adopted in Transportation, Metro, Railway and Manufacturing industries. Compared to other software Ring protocols, such as RRPP, ERPS, the bandwidth of EERN is much higher, with each ring being a 200G ring and the distance between two sites can be as far as 80KM, and the switchover time is much faster, being less than 3ms. As EERN is running on 1.5 layer, so typical Ethernet protocols can run on EERN. With EERN, customers will no longer need to rely on WAN system to build a long-distance ring network for their business, EERN can be their new and most cost-effective solution.

Thorough system optimization enables S10500X-G to forward traffic within 100 seconds after being powered on, greatly reducing service interruption time.

Ultra-low forwarding latency, which can be as less as $<1\mu\text{s}$, ensuring a fluent use experience.

*: 'Bidirectional' means sending + receiving, for instance, $4.6\text{Tbps}=2.3\text{Tbps}$ sending direction + 2.3Tbps receiving direction.

Distributed system with multi-engines

S10500X-G series adopts distributed system design for control engines, detection engines, and maintenance engines to deliver powerful control capability and millisecond-level HA.

Distributed control engines: Each service card is integrated with a control and processing system. It can efficiently process varieties of packets on the control plane, and provide precise control for protocol packets to avoid attacks on the control plane.

Distributed detection engines: Each service card can deploy BFD or OAM to detect faults in milliseconds and interact with control plane protocols for fast failover and convergence to ensure service continuity.

Distributed maintenance engines: The intelligent CPU system supports intelligent power management and status monitoring for key components. It can reduce power impulse, electromagnetic radiation, and power consumption, and prolongs the device lifespan.

High port-density PoE solution

S10500X-G Multigigabit Ethernet PoE++ Solution: With 48*10G Multigigabit PoE++ card, S10500X-G can provide an Easy-to-Deploy solution that can grow with customers' business. It brings 5 times the current speed to the workspace in a way that plugs right into the existing cabling infrastructure, upgrades network capacity without disruption to business, delivers 15W, 30W, 60W and up to 90W (802.3bt standard) PoE out, powering more end-devices – IP phones, IPTVs, cameras, etc.

Security assurance

MACsec (256bits) capability: MACsec, an industry-standard point-to-point link-layer security technology, is supported across all ports of the SF series cards, protecting the network from security threats on the deepest data level.

Trusted Computing: With the built-in TPM, S10500X-G brings the security degree of switches to another level, providing multiple features, such as certificate issuance and device self-check functions to build a more secured network.

Carrier-grade reliability

Hardware BFD: to ensure the network continuity.

M-LAG (Multichassis link aggregation, originated from DRNI): provides device-level redundancy and load-balance through the simplest link aggregation protocol.

IRF2 (Intelligent Resilient Framework): device level reliability technology, virtualizes multiple switches into one virtual IRF system to provide Data Center-class availability, scalability and also simplifies the management complexity. IRF2 system can be formed over a distance of 80 km (49.71 miles).

Supports a variety of high-availability features such as NSR, ISSU, Graceful Restart, Smartlink, etc.

Redundancy design across key components, including MPUs, switch Fabric Units, Fan tray, PSUs, even power switches, maximizing the system availability and guarding the device against emergency and unexpected conditions.

key components including MPU, SFU, Line cards, Fan tray, Power supply module are hot swappable.

H3C S10500X-G series can operate at high level of stability, with a carrier-grade reliability of 99.999%.

NMS and Intelligent O&M

Embedded NMS Platform (SmartMC) to provide a light-weight, convenient network management solution.

Compatible with both H3C Intelligent SDN campus network solution (AD-Campus) and SDN data center network solution (AD-DC) to build a SDN network with high-level automation, intelligence.

Support Cloud-based management through H3C Cloudnet, which is based on H3C unified O&M cloud platform, It provides a light-weight and multi-service public cloud platform for small business. It provides management of networks, terminals, users and service enabling features.

Supports Visualization technologies, INT, gRPC, Netstream, Telemetry Stream, etc.

IPv6 ready

Complete IPv4/IPv6 dual stack solutions: IPv6 static routing, RIPng, OSPFv3, IS-ISv6, BGP4+ and Pv4/IPv6 multicast.

IPv4-to-IPv6 transition: IPv6 manual tunnel, 6to4 tunnel, ISATAP tunnel, GRE tunnel, and IPv4-compatible automatic tunnel configuration.

H3C S10500X-G has obtained IPv6 ready logo (phase 2), a globally recognized validation for commercial IPv6

deployment.

Eco-friendly

Front-to-Rear Air Flow: S10500X-G adopts the best heat dissipation design, reducing the mutual airflow resistance between different switches next to each other in the server room to a great degree.

Higher energy efficiency: PSUs of S10500X-G support 10A power supply input, greatly reducing the requirements for the power supply system in server rooms. Beyond that, the overall power consumption is much lower thanks to the high power-efficiency features, such as 2-level power supply structure.

Intelligent Cooling system, the fan tray supports intelligent speed adjustment based on real-time temperature monitoring points embedded in the chassis, the speed of the fan is dynamically adjusted to keep the optimal balance between the heat dissipation and power consumption, saving power consumption significantly.

Technical specifications

Hardware specifications

Features	S10506X-G	S10508X-G	S10512X-G
	S10506X-G-PoE		S10512X-G-PoE
Switching capacity	43.2Tbps/76.8Tbps*	57.6Tbps/153.6Tbps*	86.4Tbps/230.4Tbps*
Forwarding capacity	19200Mpps	25600Mpps	68400Mpps
MPU slots	2		
MPU console ports	1x RJ-45	1x RJ-45	1x RJ-45
MPU MGMT ports	1x 10/100/1000M RJ-45	1x 10/100/1000M RJ-45	1x 10/100/1000M RJ-45
	1x 1000M SFP	1x 1000M SFP	1x 1000M SFP
MPU USB port	1	1	1
LPU slots	6	8	12
Switching fabric module slots	4	6	S10512X-G: 6 S10512X-G-PoE: 4
Fan trays	2	3	S10512X-G: 3 S10512X-G-PoE: 2
Power modules	4 (non-PoE)+8 (PoE)	6	8 (non-PoE)+16 (PoE)
Hardware architecture	Orthogonal CLOS+		
Redundancy	Redundant MPUs, switching fabric modules, power modules, and fan trays		
Operating environment	Temperature: 0°C to 45°C (32°F to 113°F)		
	Humidity: 5% to 95% (non-condensing)		
Input voltage	AC:100V~240V		

Features	S10506X-G	S10508X-G	S10512X-G
	S10506X-G-PoE		S10512X-G-PoE
	DC:-48V~-60V		
Maximum power consumption	3012W	4374W	6309W
MTBF(Year)	44.6	36.8	34.0
MTTR(Hour)	0.5	0.5	0.5
Dimension (H x W x D)/mm	442×440×520 10U	531×440×640 12RU	S10512X-G: 796×440×640; 18RU S10512X-G-PoE: 796×440×520; 18RU
Fully loaded weight	S10506X-G: < 85 kg/187.4 lb S10506X-G-PoE: < 95 kg/209lb	< 130 kg < 286.6 lb	S10512X-G: < 180 kg / < 396.8 lb S10512X-G-PoE: < 160 kg / < 352.73 lb

- Switching capacity *: The value marked with * after (/) represents the capacity the chassis backplane is ready to support.

Software specifications

Feature	S10500X-G switch series
Ethernet	IEEE 802.1Q VLAN DLDP LLDP Static MAC configuration MAC learning limit Port mirroring and traffic mirroring Mirroring, SPAN, RSPAN, ERSPAN with Max. 128 mirror groups Port aggregation, LACP, port isolation, and port mirroring 802.1d(STP)/802.1w(RSTP)/802.1s(MSTP)/PVST/PVST+ STP Root Guard BPDU Guard, BPDU filter IEEE 802.3ad (dynamic link aggregation), static port aggregation, and multi-chassis link aggregation IEEE 802.1P (CoS priority) IEEE 802.1ad (QinQ), selective QinQ and Vlan mapping GVRP RRPP (Rapid Ring Protection Protocol) Jumbo frame SuperVLAN

Feature	S10500X-G switch series
	PVLAN Guest VLAN Voice VLAN MVRP(IEEE802.1ak) Broadcast/multicast/unknown unicast storm constrain Port-based, Protocol-based, Subnet-based and MAC-based VLAN
Routing	Static routing, RIPV1/V2, OSPF, IS-IS, and BGP4 ARP proxy ARP snooping DHCP client, DHCP server, DHCP relay, DHCP snooping, DHCP option82 DHCPv6 client, DHCPv6 server, DHCPv6 relay, DHCPv6 snooping, DHCPv6 option82 IPv4/IPv6 ECMP IPv4/IPv6 Policy-based routing IPv4/IPv6 Routing policy IPv4/IPv6 dual stack IPv6 static routing, RIPng, OSPFv3, IS-ISv6, and BGP4+ Pingv6, Telnetv6, FTPv6, TFTPv6, DNSv6, ICMPv6 IPv4-to-IPv6 transition technologies, such as IPv6 manual tunnel, 6to4 tunnel, ISATAP tunnel, GRE tunnel\IPv4-compatible IPv6 tunnel
Multicast	PIM-DM, PIM-SM, PIM-SSM, MSDP, MBGP, and Any-RP IGMP V1/V2/V3\IGMP V1/V2/V3 Snooping IGMP Filter and IGMP Fast leave PIM snooping, IPv6 Pim-snooping Multicast VLAN PIM6-DM\PIM6-SM\PIM6-SSM MLD V1/V2, MLD V1/V2 Snooping Multicast policy and Multicast QoS
ACL/QoS	Standard and extended ACLs Ingress and Egress ACL VLAN ACL Global ACL Ingress/Egress CAR Diff-Serv QoS 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 Traffic shaping

Feature	S10500X-G switch series
	Congestion avoidance, Tail-Drop and WRED Ingress/Egress counting COPP
SDN/OpenFlow	Support SDN solution (AD-Campus) OpenFlow 1.3 Multiple controllers (EQUAL, master/slave) Multiple tables flow Group table Meter
VXLAN	VXLAN L2 switching VXLAN L3 routing VXLAN VTEP L2 VxLAN gateway, L3 VxLAN gateway Distributed VxLAN gateway, Centralized VxLAN gateway IPv4/IPv6 VxLAN tunnel VXLAN OAM ping/tracert IS-IS+ENDP distributed control plane MP-BGP+EVPN distributed control plane, EVPN-DCI* EVPN ESI* OpenFlow+Netconf centralized control plane
Programmability and automation	Ansible Auto DevOps by using Python, NETCONF, TCL, and Restful APIs for automated network programming
Lossless Ethernet	PFC* ECN* RoCEv2*
MPLS/VPLS	L3 MPLS VPN L2 VPN: VLL (Martini, Kompella) MCE MPLS OAM VPLS, VLL P/PE function LDP
Multiservice convergence	Integrated AC, Unified Wireless Access Controller, (LSEM1SUPA0, LSEM1SUPB0 support integrated AC) AP Auto Registration Wireless User WPA2 + PSK Authentication

Feature	S10500X-G switch series
	Wireless User Portal Authentication
Security	Hierarchical user management and password protection EAD Port security Portal authentication MAC authentication IEEE 802.1x and IEEE 802.1x SERVER AAA/Radius TACACS+ HWTACACS (HW Terminal Access Controller Access Control System) (Same authentication processes and implementations with TACACS+) SSHv1.5/SSHv2 Basic and advanced ACLs for packet filtering OSPF, RIPv2, BGPv4 plain text and MD5 authentication IP address, VLAN ID, MAC address multiple binding combination MACsec uRPF HTTPS SSL PKI Secure boot TPM, Trust computing Active/standby data backup Micro-segmentation
System management	IMC network management system Loading and upgrading through XModem/FTP/TFTP SNMP v1/v2c/v3 SmartMC sFlow, Netstream Telemetry INT* MOD (Mirror on drop) Packet capture gRPC Telemetry Stream* RMON and groups 1,2,3 and 9 NTP and PTP (1588v2)

Feature	S10500X-G switch series
	NQA, iNQA Fault alarm and automatic fault recovery System logs with a maximum of 20 remote loghosts / logservers ZTP Ping, Tracert, VxLAN ping and VxLAN tracert eMDI* Cloud management Device status monitoring mechanism, including the CPU engine, backplane, chips and other key components
HA	Independent switching fabric modules 1+1 redundancy for key components such as MPUS and M+N redundancy for power modules N+1 redundancy for switching fabric modules Passive backplane Hot swapping for all components Real-time data backup on active/standby MPUs CPU protection IP source guard Loop detection Ethernet OAM VRRP, VRRPv3 Hot patching NSR/GR for OSPF/BGP/IS-IS Port aggregation and multi-card link aggregation, LACP BFD for VRRP, BGP/BGPv4, IS-IS/IS-ISv6, PIM/PIM for IPV6, OSPF/OSPFv3, static routing, with a failover detection time less than 50 milliseconds Hardware BFD Ethernet QAM (802.1ag and 802.3ah) RRPP/ERPS/EERN VCT Track Monitor Link Smart-Link IRF ISSU M-LAG S-MLAG MDC

Feature	S10500X-G switch series
	Loopback Detection
Green	IEEE (802.3az)
EMC	FCC Part 15 Subpart B CLASS A ICES-003 CLASS A VCCI CLASS A CISPR 32 CLASS A EN 55032 CLASS A AS/NZS CISPR32 CLASS A CISPR 24 EN 55024 EN 61000-3-2 EN 61000-3-3 ETSI EN 300 386
Safety	UL 60950-1 CAN/CSA C22.2 No 60950-1 IEC 60950-1 EN 60950-1 AS/NZS 60950-1 FDA 21 CFR Subchapter J GB 4943.1

- The contents are applicable only to regions outside mainland China. H3C reserves the right to interpret the contents.
- There may be restrictions and limitations regarding certain features. Please refer to the corresponding configuration guide on H3C website for further confirmation.
- *: the feature is supported with certain switches/card models, please refer to the corresponding configuration guide on H3C website for further confirmation.

Performance specifications

Item	S10500X-G
VLAN	4K
VLAN interface	4K
MSTP instances	64
PVST/PVST+ instances	126
Jumbo frame length	13312
DHCP-security users	16K
QOS forward queues	8

Item	S10500X-G
MAC address entries	720,896 (Max)
IPv4 ARP entries	96,230 (Max)
IPv6 ND entries	81,350 (Max)
IPv4 routing entries	780,288 (Max)
VRF	4K (Max)
IPv4 ACL entries	Ingress: 26K (Max) Egress: 2K (Max)
IPv6 ACL entries	Ingress: 8K (Max) Egress: 1K (Max)
L2 Multicast entries	8K (Max)
IPv6 routing entries	278,528 (Max)
IPv4 Multicast entries	8K (Max)
IPv6 Multicast entries	8K (Max)
Buffer	36MB (Max)

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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
	802.1ax Link Aggregation
	802.1d Media Access Control Bridges
	802.1p Priority
	802.1q VLANs
	802.1s Multiple Spanning Trees
	802.1ag CFD
	802.1w Rapid Spanning Tree
	802.3ad Link Aggregation Control Protocol / LACP
	802.3ah Ethernet in the First Mile / Ethernet OAM
	802.3x Full Duplex and flow control
	802.3af Power over Ethernet
	802.3at Power over Ethernet

Organization	Standards and Protocols
	802.3bt Power over Ethernet
	802.3az Energy Efficient Ethernet
	802.3u 100BASE-T
	802.3ab 1000BASE-T
	802.3z 1000BASE-X
	802.3ae 10G Ethernet
	802.3by 25G Ethernet
	802.3ba 40/100G Ethernet
	802.3bs 400G Ethernet
IETF	RFC1213 MIB-2 Stands for Management Information Base
	RFC1881 IPv6 Address Allocation Management
	RFC1887 An Architecture for IPv6 Unicast Address Allocation
	RFC1981 Path MTU Discovery for IP version 6
	RFC2375 IPv6 Multicast Address Assignments
	RFC2460 Internet Protocol, Version 6 (IPv6) Specification
	RFC2464 Transmission of IPv6 Packets over Ethernet Networks
	RFC2526 Reserved IPv6 Subnet Anycast Addresses
	RFC3307 Allocation Guidelines for IPv6 Multicast Addresses
	RFC4191 Default Router Preferences and More-Specific Routes
	RFC4291 IP Version 6 Addressing Architecture
	RFC4443 Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification
	RFC4862 IPv6 Stateless Address Autoconfiguration
	RFC2711 IPv6 Router Alert Option
	RFC2787 Definitions of Managed Objects for the Virtual Router Redundancy Protocol
	RFC2918 Route Refresh Capability for BGP-4
	RFC2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations
	RFC3019 MLDv1 MIB
	RFC3046 DHCP Relay Agent Information Option
	RFC3065 Autonomous System Confederation for BGP
	RFC3376 IGMPv3
	RFC3416 (SNMP Protocol Operations v2)
	RFC3417 (SNMP Transport Mappings)
	RFC3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)
	RFC3623 Graceful OSPF Restart
	RFC3768 Virtual Router Redundancy Protocol (VRRP)

Organization	Standards and Protocols
	RFC3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6
	RFC3973 PIM Dense Mode
	RFC4022 MIB for TCP
	RFC4113 MIB for UDP
	RFC4251 The Secure Shell (SSH) Protocol
	RFC4252 SSH Authentication Protocol
	RFC4253 SSH Transport Layer Protocol
	RFC4254 SSH Connection Protocol
	RFC4271 A Border Gateway Protocol 4 (BGP-4)
	RFC4273 Definitions of Managed Objects for BGP-4
	RFC4292 IP Forwarding Table MIB
	RFC4293 Management Information Base for the Internet Protocol (IP)
	RFC4360 BGP Extended Communities Attribute
	RFC4456 BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP)
	RFC4486 Subcodes for BGP Cease Notification Message
	RFC4541 IGMP & MLD Snooping Switch
	RFC4552 Authentication/Confidentiality for OSPFv3
	RFC4601 PIM Sparse Mode
	RFC4607 Source-Specific Multicast for IP
	RFC4724 Graceful Restart Mechanism for BGP
	RFC4750 OSPFv2 MIB partial support no SetMIB
	RFC4760 Multiprotocol Extensions for BGP-4
	RFC4861 IPv6 Neighbor Discovery
	RFC5059 Bootstrap Router (BSR) Mechanism for PIM, PIM WG
	RFC5065 Autonomous System Confederation for BGP
	RFC5095 Deprecation of Type 0 Routing Headers in IPv6
	RFC5187 OSPFv3 Graceful Restart
	RFC5340 OSPFv3 for IPv6
	RFC5424 Syslog Protocol
	RFC5492 Capabilities Advertisement with BGP-4
	RFC5519 Multicast Group Membership Discovery MIB (MLDv2 only)
	RFC5798 VRRP (exclude Accept Mode and sub-sec timer)
	RFC5880 BFD, Bidirectional Forwarding Detection
	RFC5905 Network Time Protocol Version 4: Protocol and Algorithms Specification (NTPv4)
	RFC6620 FCFS SAVI

Organization	Standards and Protocols
	RFC6987 OSPF Stub Router Advertisement
	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
	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
	RFC5308 Routing IPv6 with IS-IS
	RFC5381 Experience of Implementing NETCONF over SOAP

Ordering information

Product code		Description
Chassis	LS-10506X-G	H3C S10506X-G Ethernet Switch Chassis
	LS-10506X-G-PoE	H3C S10506X-G Ethernet Switch Chassis, PoE
	LS-10508X-G	H3C S10508X-G Ethernet Switch Chassis
	LS-10512X-G	H3C S10512X-G Ethernet Switch Chassis
	LS-10512X-G-PoE	H3C S10512X-G Ethernet Switch Chassis, PoE
Power supply module	PSR1600B-12A-B	1600W AC Power Supply Module (Power Panel Side Exhaust Airflow)
	PSR2000-12D-B	2000W DC Power Supply Module(Power Panel Side Exhaust Airflow)
	PSR1600-54A-B	1600W/56V PoE Power Supply Module (Power Panel Side Exhaust Airflow)
Fan tray module	FAN-80B-4-A	Fan Tray Module
	FAN-80B-5-A	Fan Tray Module
	FAN-80B-8-A	Fan Tray Module
	FAN-80B-8-B-G3	Fan Tray Module
Supervisor engine	LSEM1SUPA0	H3C S10500X-G Supervisor Engine Unit,Type A
	LSEM3SUPA0	H3C S10500X-G Supervisor Engine Unit,Type A
	LSEM1SUPB0	H3C S10512X-G Supervisor Engine Unit,Type B
	LSEM3SUPB0	H3C S10512X-G Supervisor Engine Unit,Type B
Switch fabric unit	LSEM1SF06B0	H3C S10506X-G Switch Fabric Module,Type B
	LSEM1SF06D0	H3C S10506X-G Switch Fabric Module,Type D
	LSEM1SF08C0	H3C S10508X-G Switch Fabric Module,Type C
	LSEM1SF12B0	H3C S10512X-G Switch Fabric Module,Type B
	LSEM1SF12PB0	H3C S10512X-G Switch Fabric Module, Type B
Line card	LSEM1GT48TSSD0	H3C S10500X-G 48-Port 10/100/1000BASE-T Interface(RJ45)+4-Port 10G Ethernet Optical Interface

Product code		Description
		Module (SFP+,LC)(SD)
	LSEM1GT48SD0-G3	H3C S10500X-G 48-Port 10/100/1000BASE-T Ethernet Copper Interface Module (RJ45)(SD)
	LSEM1GP48SD0-G3	H3C S10500X-G 48-Port 1000BASE Ethernet Optical Interface Module (SFP)(SD)
	LSEM1GV48TSSD0	H3C S10500X-G 48-Port 10/100/1000BASE-T Interface(RJ45)+4-Port 10G Ethernet Optical Interface Module (SFP+)(SD),PoE Plus
	LSEM1GP40TS12SD0-G3	H3C S10500X-G 40-Port 1000BASE Ethernet Optical Interface (SFP)+12-Port 10G Ethernet Optical Interface Module (SFP+)(SD)
	LSEM1GT24GP16TSSD0	H3C S10500X-G 24-Port 10/100/1000BASE-T Ethernet Copper Interface(RJ45)+16-Port 1000BASE Ethernet Optical Interface(SFP)+12-Port 10G Ethernet Optical Interface Module (SFP+)(SD)
	LSEM2TGS16GP32SD0	H3C S10500X-G 16-Port 10G Ethernet Optical Interface(SFP+) + 32-Port 1000BASE Ethernet Optical Interface Module (SFP)(SD)
	LSEM1TGS24SD0	H3C S10500X-G 24-Port 10G Ethernet Optical Interface Module (SFP+,LD)(SD)
	LSEM1TGS48QSSF0	H3C S10500X-G 48-Port 10G Ethernet Optical Interface(SFP+,LC)+4-Port 40G Ethernet Optical Interface Module (QSFP+)(SF)
	LSEM3TGS48QSSF0	H3C S10500X-G 48-Port 10G Ethernet Optical Interface(SFP+) + 4-Port 40G Ethernet Optical Interface Module (QSFP+)(SF)
	LSEM1TGT48SD0	H3C S10500X-G 48-Port Multigigabit Ethernet (10G/5G/2.5G/1G/100Mbps) Copper Interface Module (RJ45)(SD)
	LSEM1TGV48SD0	H3C S10500X-G 48-Port Multigigabit (10G/5G/2.5G/1G/100Mbps) Ethernet Copper Interface Module (RJ45)(SD),Separate License Required for 10G/5G,PoE++
	LSEM2TGS48SD0	H3C S10500X-G 48-Port 10G Ethernet Optical Interface Module (SFP+)(SD)
	LSEM1YGS48CQSF0	H3C S10500X-G 48-Port 25G Ethernet Optical Interface (SFP28)+4-Port 100G Ethernet Optical Interface Module (QSFP28)(SF)
	LSEM3YGS48CQSF0	H3C S10500X-G 48-Port 25G Ethernet Optical Interface (SFP28) + 4-Port 100G Ethernet Optical Interface Module (QSFP28)(SF)
	LSEM1QGS16SF0	H3C S10500X-G 16-Port 40G Ethernet Optical Interface Module (QSFP+)(SF)
	LSEM3QGS16SF0	H3C S10500X-G 16-Port 40G Ethernet Optical Interface Module (QSFP+)(SF)
	LSEM1QGS36SF0	H3C S10500X-G 36-Port 40G Ethernet Optical Interface Module (QSFP+)(SF)
	LSEM3QGS36SF0	H3C S10500X-G 36-Port 40G Ethernet Optical Interface Module (QSFP+)(SF)
	LSEM1GT48TS24QSSD0	H3C S10500X-G 48-Port 10/100/1000BASE-T Ethernet Copper Interface(RJ45)+24-Port 10G Ethernet Optical Interface(SFP+)+2-Port 40G Ethernet Optical Interface Module (QSFP+)(SD)
	LSEM1CGQ16SF0	H3C S10500X-G 16-Port 100G Ethernet Optical Interface Module (QSFP28)(SF)
	LSEM3CGQ16SF0	H3C S10500X-G 16-Port 100G Ethernet Optical Interface Module (QSFP28)(SF)
	LSEM1CGQ36SF0	H3C S10500X-G 36-Port 100G Ethernet Optical Interface Module (QSFP28)(SF)
	LSEM3CGQ36SF0	H3C S10500X-G 36-Port 100G Ethernet Optical Interface Module (QSFP28)(SF)
	LSEM3CDQ2SF0	H3C S10500X-G 2-Port 400G Ethernet Optical Interface Module (QSFP-DD)(SF)
	LSEM1RCGQ2TSSF0	H3C S10500X-G 2-Port 100G RPR Optical Interface(QSFP28)+16-Port 10G Ethernet Optical Interface Module (SFP+)(SF)
	LSEM1WBC120G0	H3C S10500X-G Multiservice Access Controller Module(10240 AP,120G)

Product code		Description
	LSEM1SDNB0	H3C S10500X-G SDN Automation Module

Datasheet history

Description	Location	Date
Initial release	\	April, 2023
Following new products added in 'Ordering Information': LSEM2TGS16GP32SD0	Ordering Information	February 23, 2024
Following new products added in 'Ordering Information': LSEM1TGV48SD0, LSEM1RCGQ2TSSF0	Ordering Information	November, 13, 2024
Following new products added in 'Ordering Information': LSEM1WBC120G0, LSEM1SDNB0	Ordering Information	July, 23, 2025
Remove products due to EOS: LSEM1CDQ2SF0	Ordering Information	September, 20, 2025
Following new products added in 'Ordering Information': LSEM1GT48SD0-G3, LSEM1GP48SD0-G3, LSEM1GP40TS12SD0-G3	Ordering Information	October, 29, 2025



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