H3C S1600V2 Switch Series

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New H3C Technologies Co., Limited

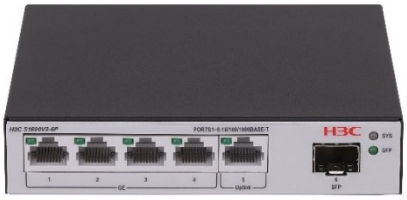
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Product Overview

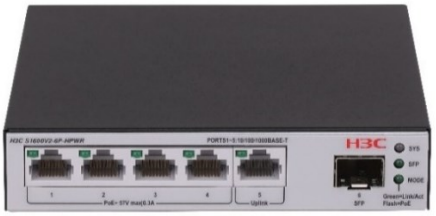
H3C S1600V2 Ethernet switch product is independently developed by New H3C Technologies Co., Ltd. (H3C). It is a web managed switch designed for network environments. It is easy to install, provides a rich set of features, and is widely used in small and medium-sized enterprises, commercial chains, CCTV, campuses, and other scenarios.

H3C S1600V2 switch series includes the following models:

- S1600V2-6P：5GE+1*SFP
- S1600V2-10P：9GE+1*SFP
- S1600V2-6P-HPWR：4*GE(poe+)+1GE+1*SFP
- S1600V2-10P-HPWR：8*GE(poe+)+1*SFP+1GE
- S1600V2-18P：16GE+2*SFP
- S1600V2-26P：24GE+2*SFP
- S1600V2-18P-HPWR：16GE(poe+)+2*SFP
- S1600V2-26P-HPWR：24GE(poe+)+2*SFP
- S1600V2-26S：24GE+2*SFP+
- S1600V2-26S-HPWR：24GE(poe+)+2*SFP+



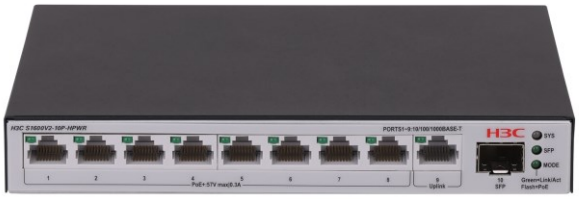
S1600V2-6P



S1600V2-6P-HPWR



S1600V2-10P



S1600V2-10P-HPWR



S1600V2-18P



S1600V2-18P-HPWR



S1600V2-26P



S1600V2-26P-HPWR



S1600V2-26S



S1600V2-26S-HPWR

Features and benefits

Rich port types

All series support "Ethernet port + optical port" combination, adapting to various scenarios of networking needs, convenient and flexible networking;

All ports are equipped with line speed forwarding capability to meet the needs of different users.

Reliable Security Policy

Supports broadcast storm suppression to prevent excessive broadcast packets from being sent from other ports of the switch, which in turn affects the network.

Supports black hole MAC address configuration to filter out illegal users and safeguard network security.

Easy-to-use network management

Cloudnet and intelligent Web management functions fit smart and easy managing demand ，the page is simple and easy to operate, reducing operation and maintenance costs.

Fast network for quick project creation

Supports automatically obtaining IP address from gateway and connecting to external network without configuration.

Green Design

The S1600V2 series switch implements a variety of green energy saving features, Energy-saving design significantly reduces the power consumption and failure points of the equipment, and at the same time reduces radiation to meet the radiation standards of household appliances, which is harmless to the human body;

The entire product meets the EU RoHS standards for environmental protection and safety of materials.

Hardware Specifications

Feature	S1600V2-6P	S1600V2-10P	S1600V2-6P-HPWR	S1600V2-10P-HPWR	S1600V2-18P
Switching capacity	12Gbps	20Gbps	12Gbps	20Gbps	36Gbps
Forwarding capacity	8.93Mpps	14.88Mpps	8.93Mpps	14.88Mpps	26.784Mpps
Dimensions (W × D × H)	130×124×27 mm	185×125×27 mm	130×124×27 mm	185×125×27 mm	440×160×44 mm
Weight	≤ 0.6 kg	≤ 0.6 kg	≤0.5 kg	≤ 0.6 kg	≤ 2.1 kg
Networking interface	5GE+1*SFP	9GE+1*SFP	4*GE(poe+)+1GE+1*SFP	8*GE(poe+) +1GE+1*SFP	16GE+2*SFP
Port Surge	6KV	6KV	6KV	6KV	6KV
Input voltage	AC: The rated voltage range is 100V to 240V, 50/60Hz.				
Total power consumption	MIN: AC: 2W MAX: AC: 4W	MIN: AC: 3W MAX: AC: 6W	MIN: AC: 3W MAX: AC single 86W (PoE 73W)	MIN: AC: 4W MAX: AC: 132W (PoE 125W)	MIN: AC: 3.5W MAX: AC: 11.2W
Fan number	Fan-less	Fan-less	Fan-less	Fan-less	Fan-less
MTBF(Year)	114.00	100.76	88.60	78.48	84.36
MTTR(Hour)	1	1	1	1	1
Operating temperature	-5℃ ~ 50℃(normal operating temperature) -5℃ ~ 45℃(When using transceiver modules with maximum transmission distance < 80km)				
Storage temperature	-40℃ ~ 70℃				
Relative humidity (non-condensing)	5% RH to 95% RH, non-condensing				

Hardware Specifications (continued)

Feature	S1600V2-26P	S1600V2-18P-HPWR	S1600V2-26P-HPWR	S1600V2-26S	S1600V2-26S-HPWR
Switching capacity	52Gbps	36Gbps	52Gbps	88Gbps	88Gbps
Forwarding capacity	38.688Mpps	26.8Mpps	38.688Mpps	65.482Mpps	65.482Mpps
Dimensions (W × D × H)	440×160×44 mm	440×260×44 mm	440×260×44 mm	440×160×44 mm	440×260×44 mm
Weight	≤ 2.2 kg	≤ 3.5 kg	≤ 3.7 kg	≤2.5kg	≤3.8kg
Networking interface	24GE+2*SFP	16GE(poe+)+2*SFP	24GE(poe+)+2*SFP	24GE+2*SFP+	24GE(poe+)+2*SFP+
Port Surge	6KV	6KV	6KV	6KV	6KV
Input voltage	AC: The rated voltage range is 100V to 240V, 50/60Hz.				
Total power consumption	MIN: AC: 4.3W MAX: AC: 16W	MIN: AC: 8.2W MAX: AC: 279.3W	MIN: AC: 10.6W MAX: AC: 439.2W	MIN: AC: 8W MAX: AC: 22W	MIN: AC: 12W MAX: AC: 450W
Fan number	Fan-less	1	2	Fan-less	2
MTBF(Year)	84.36	79.35	88.25	116.233	196.389
MTTR(Hour)	1	1	1	1	1
Operating temperature	-5℃ ~ 50℃(normal operating temperature) -5℃ ~ 45℃(When using transceiver modules with maximum transmission distance < 80km)				
Storage temperature	-40℃ ~ 70℃				
Relative humidity (non-condensing)	5% RH to 95% RH, non-condensing				

Software Specifications

Feature	S1600V2 switch series
Broadcast/Multicast/Unicast storm suppression	Black hole MAC support Broadcast traffic/Multicast traffic/Unknown unicast traffic suppression
Traffic control	802.3x traffic control and half-duplex backpressure
MAC address table	Static MAC address Blackhole MAC address
VLAN	Port-based VLAN
DHCP	DHCP Client DHCP snooping
Forwarding	Wire-speed/Line-rate architecture
Mirroring	Port mirroring
Management and maintenance	Loopback-detection Web management

Feature	S1600V2 switch series
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 35 EN 55035 EN 61000-3-2 EN 61000-3-3 GB/T 9254.1
Safety	UL 62368-1 CAN/CSA C22.2 No 62368-1 IEC 62368-1 EN 62368-1 AS/NZS 62368-1 FDA 21 CFR Subchapter J GB 4943.1

Performance Specification

Entries	S1600V2-26S S1600V2-26S-HPWR	S1600V2-18P S1600V2-26P S1600V2-18P-HPWR S1600V2-26P-HPWR	1600V2-6P S1600V2-6P-HPWR	S1600V2-10P S1600V2-10P-HPWR
MAC address entries	16K	8K	2K	4K
Static Mac address	32			
VLAN table	16			
QOS forward queues	8			
Jumbo frame length	10000			

PoE Power Capacity

Product Name	Total PoE power capacity	PoE Ports Quantity
S1600V2-6P-HPWR	73W	15.4W (802.3af): 4 30W (802.3at): 2
S1600V2-10P-HPWR	125W	15.4W (802.3af): 8 30W (802.3at): 4
S1600V2-18P-HPWR	240W	15.4W (802.3af): 15 30W (802.3at): 8
S1600V2-26P-HPWR	370W	15.4W (802.3af): 24 30W (802.3at): 12

Product Name	Total PoE power capacity	PoE Ports Quantity
S1600V2-26S-HPWR	370W	15.4W (802.3af): 24 30W (802.3at): 12

Standards and Protocols Compliance

Organization	Standards And Protocols
	802.1ab Link Layer Discovery Protocol (LLDP)
	802.1d Media Access Control Bridges
	802.1p Priority
	802.1q VLANs
	802.1v VLAN classification by Port
	802.3af Power over Ethernet (PoE)
	802.3at Power over Ethernet (PoE+)
	802.3x Full Duplex and flow control
	802.3u 100BASE-T
	802.3ab 1000BASE-T
	802.3z 1000BASE-X
IETF	RFC 768 User Datagram Protocol (UDP)
	RFC 791 Internet Protocol (IP)
	RFC 792 Internet Control Message Protocol (ICMP)
	RFC 793 Transmission Control Protocol (TCP)
	RFC 813 Window and Acknowledgement Strategy in TCP
	RFC 826 Address Resolution Protocol (ARP)

Ordering Information

H3C S1600V2 switch series ordering list

Product ID	Product Description
LS-1600V2-6P-GL	H3C S1600V2-6P L2 Ethernet Switch with 5*10/100/1000BASE-T Ports and 1*100M/1G SFP Port, (AC)
LS-1600V2-10P-GL	H3C S1600V2-10P L2 Ethernet Switch with 9*10/100/1000BASE-T Ports and 1*100M/1G SFP Port, (AC)
LS-1600V2-18P-GL	H3C S1600V2-18P L2 Ethernet Switch with 16*10/100/1000BASE-T Ports and 2*100M/1G SFP Ports, (AC)
LS-1600V2-26P-GL	H3C S1600V2-26P L2 Ethernet Switch with 24*10/100/1000BASE-T Ports and 2*100M/1G SFP Ports, (AC)
LS-1600V2-26S-GL	H3C S1600V2-26S L2 Ethernet Switch with 24*10/100/1000BASE-T Ports and 2*1G/10G SFP+ Ports, (AC)
LS-1600V2-6P-HPWR-GL	H3C S1600V2-6P-HPWR L2 Ethernet Switch with 5*10/100/1000BASE-T Ports (4 PoE+ Ports Included) and 1*100M/1G SFP Port, (AC)
LS-1600V2-10P-HPWR-GL	H3C S1600V2-10P-HPWR L2 Ethernet Switch with 9*10/100/1000BASE-T Ports (8 PoE+ Ports Included) and 1*100M/1G SFP Port, (AC)
LS-1600V2-18P-HPWR-GL	H3C S1600V2-18P-HPWR L2 Ethernet Switch with 16*10/100/1000BASE-T PoE+ Ports and 2*100M/1G SFP Ports, (AC)
LS-1600V2-26P-HPWR-GL	H3C S1600V2-26P-HPWR L2 Ethernet Switch with 24*10/100/1000BASE-T PoE+ Ports and 2*100M/1G SFP Ports, (AC)
LS-1600V2-26S-HPWR-GL	H3C S1600V2-26S-HPWR L2 Ethernet Switch with 24*10/100/1000BASE-T PoE+ Ports and 2*1G/10G SFP+ Ports, (AC)

Product ID	Product Description
Transceivers	
SFP-GE-SX-MM850-A	1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 550m, LC)
SFP-GE-LX-SM1310-A	1000BASE-LX SFP Transceiver, Single Mode (1310nm, 10km, LC)
SFP-GE-T	SFP GE Copper Interface Transceiver Module (100m,RJ45)
SFP-XG-SX-MM850-E	SFP+ Module(850nm,300m,LC)
SFP-XG-LX-SM1310	SFP+ Module(1310nm,10km,LC)
Cable	
LSWM1STK	SFP+ Cable 0.65m
LSWM2STK	SFP+ Cable 1.2m
LSWM3STK	SFP+ Cable 3m
LSTM1STK	SFP+ Cable 5m

The Leader in Digital Solutions

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