

H3C S1200 Unmanaged Gigabit Ethernet Switch Series

Product overview

H3C S1200 is self-developed unmanaged Gigabit switch series by H3C, which delivers wire-speed Gigabit Ethernet connectivity, in desktop and rack-mount models, for small business and others looking for plug-and-play basic layer-2 connectivity for their network. The S1200 Switch series includes nine Gigabit Ethernet switches. All have 10/100/1000 ports for affordable Gigabit connections using copper Cat 5e cabling. There are some models for 5-port with PoE or non-PoE. There are also 16-port and 24-port RJ45-only models. There is a 24-port model with two SFP Gigabit ports, ideal where long distances require fiber-based connections. Another 24-port model supports IEEE 802.3at PoE+ on 12 of its ports, able to forward up to 30W power on these ports to power Access Points, IP phones, IP cameras, and other PoE-enabled devices. For cost-effective high-speed fiber-based server connections, there is a 24-port 10/100/1000 switch with two SFP+ 10-Gigabit uplink ports.

- S1216: 16-port 10/100/1000 autosensing Ethernet ports;
- S1224-PWR: 24-port 10/100 autosensing Ethernet ports supporting Power over Ethernet (POE);
- S1224: 24-port 10/100/1000 autosensing Ethernet ports;
- S1224F: 24-port 10/100/1000 autosensing Ethernet ports, 2 SFP uplinks;
- S1224P-X: 24-port 10/100/1000 autosensing Ethernet ports, 2 SFP+ uplinks;
- S1205: 5-port 10/100/1000 autosensing Ethernet ports, US/EU/UK/TH standard power adaptor;
- S1205-PWR: 5-port 10/100/1000 autosensing Ethernet ports supporting Power over Ethernet (POE)



S1205 Switch



S1205-PWR Switch



S1216 Switch



S1224 Switch



S1224-PWR Switch



S1224P-X Switch



S1224F Switch

Highlight features

Ease of use

- Unmanaged provides plug-and-play simplicity
- Auto-speed negotiation

Selects individual port speed automatically, depending on client capabilities; removing the need for manual intervention enables simple plug-and-play operation

- Comprehensive LED display with per-port indicators

Provides an at-a-glance view of the status, activity, speed, and full-duplex operation of the switches

- Flow control

Helps ensure reliable communications during full-duplex operation

- IEEE Auto-MDIX

Automatically adjusts for straight-through or crossover cables on all RJ-45 ports

Connectivity

- Gigabit Ethernet 10/100/1000 Connectivity

Supports high-speed Ethernet connections over highly affordable copper Category 5e cabling

- 10-Gigabit fiber connectivity

Future-proof 10-Gigabit technology allows high-speed fiber connection to servers or other switches, with connection flexibility using optional SFP+ or SFP transceivers.

- IEEE 802.3at Power over Ethernet (PoE+)

Provides up to 30W per port, which allows support of the latest PoE+-capable devices such as IP phones, wireless access points, and security cameras, as well as any IEEE 802.3af compliant end device; reduces the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments (for PoE model)

Performance

- Energy-efficient Ethernet support

Supports new IEEE 802.3az standard; and allows lower power consumption, when operated with IEEE-compliant client devices in 100 Mb/s mode only

- Half-/full-duplex auto-negotiating capability on every port

Doubles the throughput of every port

- Jumbo frame support

Allows frames up to 9,216 bytes to be switched through the network

Flexibility

- Fanless design

Enables quiet operation for deployment in open spaces

- Internal power supply

Delivers operational convenience and an environment suitable for business operations

Quality of Service (QoS)

- IEEE 802.1p prioritization

Delivers data to devices, based on the priority and type of traffic

- DiffServ Code Point (DSCP) support

Allows real-time traffic prioritization, based on L3 TOS/DSCP parameters

Warranty

See <http://www.h3c.com> for warranty and support information included with your product purchase.

Technical Specifications

	S1224	S1224-PWR	S1224F	S1224P-X
Dimensions	17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height)	17.32(w) x 9.37(d) x 1.73(h) in (44 x 23.8 x 4.4 cm) (1U height)	17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height)	17.32(w) x 9.37(d) x 1.73(h) in (44 x 23.8 x 4.4 cm) (1U height)
Fixed ports	24×10/100/1000 Base-T Ethernet ports	24×10/100/1000 Base-T Ethernet ports	24×10/100/1000 Base-T Ethernet ports 2 fixed 100/1000 BASE-X SFP ports	24×10/100/1000 Base-T Ethernet ports 2 fixed 1000/10000 SFP+ ports
Memory and processor	1 MB flash; Packet buffer size: 4Mb	1 MB flash; Packet buffer size: 4 Mb	1 MB flash; Packet buffer size: 4 Mb	8 MB flash; Packet buffer size: 12 Mb
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack (hardware included); Desktop mounting			
Throughput	up to 35.7 Mpps (64-byte packets)	up to 35.7 Mpps (64-byte packets)	up to 38.7 Mpps (64-byte packets)	up to 65.5 Mpps (64-byte packets)
Switching capacity	48 Gbps	48 Gbps	52 Gbps	88 Gbps
MAC address table size	8192 entries	8192 entries	8192 entries	16384 entries
Environment	-Operating temperature 32°F to 104°F (0°C to 40°C) -Operating relative humidity 5% to 95%, noncondensing -40°F to 158°F (-40°C to 70°C) -Nonoperating/Storage temperature 5% to 95%, noncondensing up to 16,404 ft (5 km) Power: 0 dB No fan -Nonoperating/Storage			

	S1224	S1224-PWR	S1224F	S1224P-X
relative humidity				
-Altitude				
-Acoustic				
Electrical characteristics	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Frequency	100—240 VAC, rated	100—240 VAC, rated	100—240 VAC, rated	100—240 VAC, rated
Voltage		0.3/1.8 A	0.3 A	0.4 A
Current	0.3 A	160 W	18 W	21 W
Maximum power rating	16 W	124 W PoE+		

	S1216	S1205	S1205-PWR
Dimensions	10.47(w) x 6.38(d) x 1.73(h) in (26.6 x 16.2 x 4.4 cm) (1U height)	4.52(w) x 3.18(d) x 1.06(h) in (11.48 x 8.08 x 2.69 cm)	6.21(w) x 4.13(d) x 1.06(h) in (15.77 x 10.49 x 2.69 cm)
Fixed ports	16×10/100/1000 Base-T Ethernet ports	5×10/100/1000 Base-T Ethernet ports	5×10/100/1000 Base-T Ethernet ports
Memory and processor	1 MB flash; Packet buffer size: 4Mb	Packet buffer size: 1 Mb	Packet buffer size: 1 Mb
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack (hardware included); Wall, desktop and under-table mounting	Desktop (rear port)	Desktop (rear port)
Throughput	up to 23.8 Mpps (64-byte packets)	up to 7.4 Mpps	up to 7.4 Mpps
Switching capacity	32 Gbps	10 Gbps	10 Gbps
MAC address table size	8192 entries	2048 entries	2048 entries
Electrical characteristics	50/60 Hz		
Frequency	100—240 VAC, rated	DC adaptor (12V/0.5A)	DC adaptor (54V/1.12A)
Voltage	0.2 A	3W	Max 40W, 32W PoE+
Current	12 W		
Maximum			

	S1216	S1205	S1205-PWR
power rating			
Environment			
-Operating temperature			
-Operating relative humidity	32°F to 104°F (0°C to 40°C)		
-Nonoperating/Storage temperature	5% to 95%, noncondensing		
-Nonoperating/Storage relative humidity	-40°F to 158°F (-40°C to 70°C)		
-Altitude	5% to 95%, noncondensing		
-Acoustic	up to 16,404 ft (5 km)		
	Power: 0 dB No fan		

Ordering Information

Please note that S1205 series are selected according to the DC power standards of the countries in which they are installed.

Product ID	Product Description
SMB-S1216-GL	H3C S1216 Ethernet Switch(16GE,AC)
SMB-S1224-GL	H3C S1224 24-port 10/100/1000M Ethernet Switch
SMB-S1224F-GL	H3C S1224F Ethernet Switch(24GE+2SFP,AC)
SMB-S1224-P-X-GL	H3C S1224P-X Ethernet Switch(24GE+2SFP Plus,AC)
SMB-S1224-PWR-GL	H3C S1224-PWR Ethernet Switch(12GE+12GE(PoE),AC)
SMB-S1205-US-GL	H3C S1205 Ethernet Switch(5GE,DC),US Standard
SMB-S1205-EU-GL	H3C S1205 Ethernet Switch(5GE,DC),European Standard
SMB-S1205-UK-GL	H3C S1205 Ethernet Switch(5GE,DC),UK Standard
SMB-S1205-TH-GL	H3C S1205 Ethernet Switch(5GE,DC),Thailand Standard
SMB-S1205-PWR-GL	H3C S1205-PWR Ethernet Switch(5GE+PoE(32W),DC)



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