HP 1420 Switch Series





Key features

- Unmanaged plug-and-play Gigabit Ethernet switching
- Green features for low power consumption
- Fanless design for silent operation
- Quality of service capabilities for improved network efficiency
- Limited lifetime warranty with three years 24x7 phone support

Product overview

The HP 1420 Switch Series consists of unmanaged Gigabit Ethernet switches, for small business and others looking for plug-and-play basic Layer 2 connectivity for their network, including low-cost PoE+ and 10-Gigabit uplink models.

The 1420 Switch Series includes four Gigabit switches. All have 10/100/1000 ports for affordable Gigabit connections using copper Cat 5e cabling. There is a 16-port RJ45-only model. 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 30 W 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 ports.

HP 1420 switches have quality of service (QoS) support and IEEE 802.3x flow control features that improve network efficiency.

Simplified plug-and-play convenience is supported by features such as auto-MDIX and auto-speed negotiation. HP has innovated and combined the latest advances in silicon technology to bring you some of the most power-efficient switches. All models support the Energy Efficient Ethernet IEEE 802.3az standard, as well as auto power-down mode on idle ports and power saving on short-distance cables. With their fanless silent operation, these switches are ideal for office deployment. HP 1420 switches come with a limited lifetime warranty covering the unit and power supplies, as well as 24x7 phone support for the first three years of ownership.

Features and benefits

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

• HP/IEEE Auto-MDIX

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

Connectivity

- Gigabit Ethernet 10/100/1000 connectivity—high speed Ethernet connections over highly affordable copper Category 5 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 30 W 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 Mbps 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 and support

• Limited Lifetime Warranty 2.0

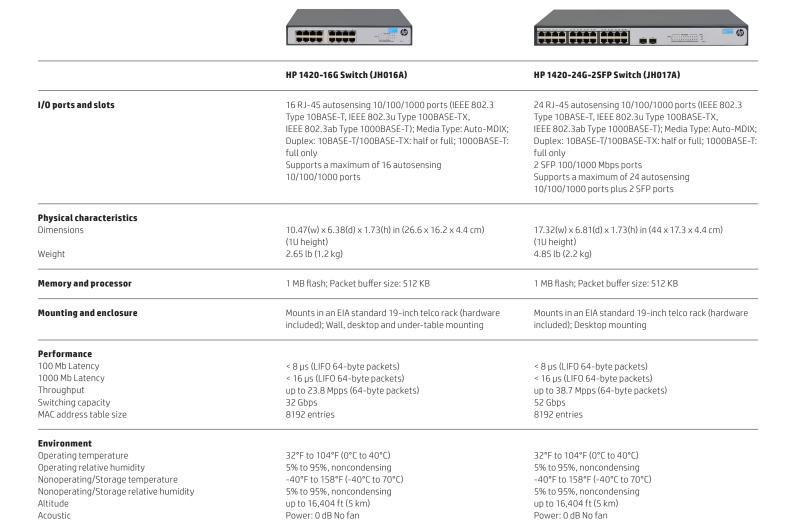
Advance hardware replacement with next-business-day delivery (available in most countries). See hp.com/networking/warrantysummary for duration details

• Electronic and telephone support (for Limited Lifetime Warranty 2.0)

Limited 24x7 telephone support is available from HP for the first three years; limited electronic and business hours telephone support is available from HP for the entire warranty period; to reach our support centers, refer to hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to hp.com/networking/warrantysummary

HP 1420 Switch Series

Specifications



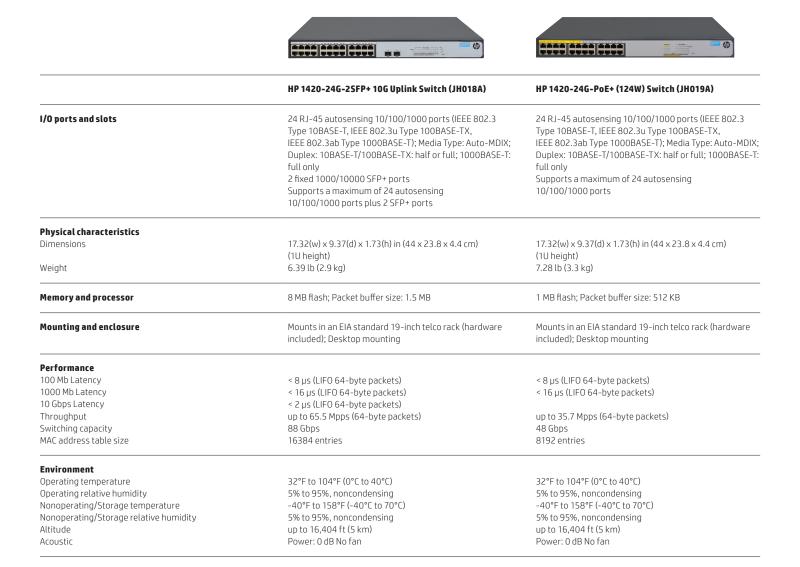
HP 1420 Switch Series (continued)

Specifications (continued)

	HP 1420-16G Switch (JH016A)	HP 1420-24G-2SFP Switch (JH017A)
Electrical characteristics Frequency Voltage Current Maximum power rating	50/60 Hz 100—240 VAC, rated (depending on power supply chosen) 0.2 A 12 W	50/60 Hz 100—240 VAC, rated (depending on power supply chosen 0.3 A 18 W
	Notes Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. This model provides internal power supply. Please select the correct power cord country option.	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. This model provides internal power supply. Please select the correct power cord country option.
Safety	CSA 22.2 No. 60950; UL 60950-1; IEC 60950-1; EN 60950-1	CSA 22.2 No. 60950; UL 60950-1; IEC 60950-1; EN 60950-1
Emissions	FCC Rules Part 15, Subpart B Class A	FCC Rules Part 15, Subpart B Class A
Immunity Generic EN ESD Radiated EFT/Burst Surge Conducted Power frequency magnetic field Voltage dips and interruptions Harmonics Flicker	EN 55022 CISPR 22 EN 55024, CISPR 24 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 IEC 61000-3-2 IEC 61000-3-3	EN 55022 CISPR 22 EN 55024, CISPR 24 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 IEC 61000-3-2 IEC 61000-3-3
Notes		Use only supported genuine HP transceivers with your switch.
Services	Refer to the HP website at hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	Refer to the HP website at hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 1420 Switch Series (continued)

Specifications (continued)



HP 1420 Switch Series (continued)

Specifications (continued)

	HP 1420-24G-2SFP+ 10G Uplink Switch (JH018A)	HP 1420-24G-PoE+ (124W) Switch (JH019A)
Electrical characteristics		
requency	50/60 Hz	50/60 Hz
/oltage	100—240 VAC, rated (depending on power supply chosen)	100—240 VAC, rated (depending on power supply chose
Current	0.4 A	0.3/1.8 A
Maximum power rating	21 W	160 W
PoE power		124 W PoE+
	Notes	Marian and a second
	Maximum power rating and maximum heat dissipation	Maximum power rating and maximum heat dissipation
	are the worst-case theoretical maximum numbers	are the worst-case theoretical maximum numbers
	provided for planning the infrastructure with fully loaded	provided for planning the infrastructure with fully loade
	PoE (if equipped), 100% traffic, all ports plugged in, and	PoE (if equipped), 100% traffic, all ports plugged in, and
	all modules populated.	all modules populated.
	This model provides internal power supply. Please select	PoE Power is the power supplied by the internal power
	the correct power cord country option.	supply, it is dependent on the type and quantity of power
		supplies and may be supplemented with the use of a
		External Power Supply (EPS).
		This product provides PoE or PoE+ power across 12 of 2
		ports, with a total power budget of 124W. This model is
		designed with internal power supply. Please select the
		correct power cord country option.
Safetv	CSA 22.2 No. 60950; UL 60950-1; IEC 60950-1;	CSA 22.2 No. 60950; UL 60950-1; IEC 60950-1;
Salety	EN 60950-1	EN 60950-1
Emissions	FCC Rules Part 15, Subpart B Class A	FCC Rules Part 15, Subpart B Class A
Immunity		
Generic	EN 55022 CISPR 22	EN 55022 CISPR 22
EN	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD .	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-2	IEC 61000-4-2
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11
Harmonics	IEC 61000-3-2	IEC 61000-3-2
Flicker	IEC 61000-3-3	IEC 61000-3-3
Notes	Use only supported genuine HP transceivers with your	
	switch.	
Services	Refer to the HP website at hp.com/networking/services	Refer to the HP website at hp.com/networking/services
	for details on the service-level descriptions and product	for details on the service-level descriptions and product
	numbers. For details about services and response times	numbers. For details about services and response times
	in your area, please contact your local HP sales office.	in your area, please contact your local HP sales office.
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Standards and Protocols

(applies to all products in series)

General protocols

IEEE 802.1p Priority
IEEE 802.3ab 1000BASE-T
IEEE 802.3ae 10-Gigabit Ethernet
IEEE 802.3af Power over Ethernet

IEEE 802.3at Power over Ethernet Plus IEEE 802.3az Energy Efficient Ethernet IEEE 802.3i 10BASE-T Ethernet over twisted pair IEEE 802.3u 100BASE-TX Fast Ethernet, 100BASE-FX with autonegotiation IEEE 802.3x Flow Control IEEE 802.3z 1000BASE-X Gigabit Ethernet over fiber

HP 1420 Switch Series accessories

Cables	HP 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A)	
	HP 1 m Multimode OM3 LC/LC Optical Cable (AJ834A)	
	HP 2 m Multimode OM3 LC/LC Optical Cable (AJ835A)	
	HP 5 m Multimode OM3 LC/LC Optical Cable (AJ836A)	
	HP 15 m Multimode OM3 LC/LC Optical Cable (AJ837A)	
	HP 30 m Multimode OM3 LC/LC Optical Cable (AJ838A)	
	HP 50 m Multimode OM3 LC/LC Optical Cable (AJ839A)	
	HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable (QK732A)	
	HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable (QK733A)	
	HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable (QK734A)	
	HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable (QK735A)	
	HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable (QK736A)	
	HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable (QK737A)	
HP 1420-24G-2SFP Switch (JH017A)	HP X121 1G SFP LC SX Transceiver (14858C)	
,	HP X121 1G SFP LC LX Transceiver (J4859C)	
	HP X121 1G SFP RJ45 T Transceiver (J8177C)	
	HP X120 1G SFP LC SX Transceiver (JD118B)	
	HP X120 1G SFP LC LX Transceiver (JD119B)	
	HP X120 1G SFP RJ45 T Transceiver (JD089B)	
HP 1420-24G-2SFP+ 10G Uplink Switch (JH018A)	HP X121 1G SFP LC SX Transceiver (J4858C)	
	HP X121 1G SFP LC LX Transceiver (J4859C)	
	HP X121 1G SFP RJ45 T Transceiver (J8177C)	
	HP X120 1G SFP LC SX Transceiver (JD118B)	
	HP X120 1G SFP LC LX Transceiver (JD119B)	
	HP X120 1G SFP RJ45 T Transceiver (JD089B)	
	HP X132 10G SFP+ LC SR Transceiver (J9150A)	
	HP X130 10G SFP+ LC SR Transceiver (JD092B)	
	HP X130 10G SFP+ LC LR Transceiver (JD094B)	
	HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable (J9281B)	
	HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (J9283B)	

Learn more at

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