

# HP 1820 Switch Series



## Key features

- Customized operation using intuitive Web interface
- Flexible deployment options including wall, under table, and desktop mounting
- 24- and 48-port models include SFP ports
- 8-, 24- and 48-port non-PoE+ models are fanless for quiet operation
- Limited Lifetime Warranty 2.0

## Product overview

HP 1820 Switch Series devices are basic, smart-managed, fixed-configuration Gigabit Ethernet Layer 2 switches designed for small businesses looking for key features in an easy-to-administer solution.

The series consists of six switches including 8-, 24- and 48-port Gigabit Ethernet switches and 8-, 24-, and 48-port Gigabit PoE+ models each providing non-blocking Gigabit per port performance. Some models include SFP ports for fiber connectivity and some are fanless, making them ideal for office deployments. All 1820 Switches support flexible installation options, including mounting on wall, under table, or on desktop. The 8-port Gigabit Ethernet model can be powered by an upstream Power over Ethernet (PoE) switch for environments where no line power is available.

These Gigabit switches are plug-and-play out of the box, yet network operation can be fine-tuned through features available from a simple Web browser-based GUI, if necessary. Customizable features include VLANs, Rapid Spanning Tree, IGMP Snooping, link aggregation trunking, and DSCP QoS policies. All models include the latest energy-saving capabilities, including Energy Efficient Ethernet (EEE) and idle-port power down.

## Features and benefits Management

- Simple Web management  
Allows for easy management of the switch—even by nontechnical users—through an intuitive Web GUI; supports HTTP and HTTP Secure (HTTPS)
- SNMPv1, v2c  
Enable devices to be discovered and monitored from an SNMP management station
- Port mirroring  
Enables traffic on a port to be simultaneously sent to a network analyzer for monitoring
- Dual flash images  
Provide independent primary and secondary operating system files for backup while upgrading
- Network Time Protocol (NTP)  
Synchronizes timekeeping among distributed time servers and clients; keeps timekeeping consistent among all clock-dependent devices within the network
- Manual network time configuration  
Manually set the date and time on the switch in the absence of an NTP server
- Default DHCP client mode  
Allows the switch to be directly connected to a network, enabling plug-and-play operation; in the absence of a DHCP server on the network, the switch falls back to a default, fixed IP address

### Quality of service (QoS)

- Traffic prioritization  
Provides time-sensitive packets (like VoIP and video) with priority over other traffic based on DSCP or IEEE 802.1p classification; packets are mapped to eight hardware queues for more effective throughput
- Broadcast control  
Allows limiting of broadcast traffic rate to reduce unwanted network broadcast traffic
- IEEE 802.1p/Q  
Delivers data to devices based on the priority and type of traffic; supports IEEE 802.1Q

### Connectivity

- Auto-MDI/MDIX  
Automatically adjusts for straight through or crossover cables on all ports
- IEEE 802.3X Flow Control  
Provides a flow throttling mechanism propagated through the network to prevent packet loss at a congested node
- Loop protection  
If the switch detects a loop, it disables the source port from forwarding data packets originating from the switch to avoid broadcast storms
- SFP ports for fiber connectivity  
Provides fiber connections for uplinks and other connections across longer distances than copper cabling can support; SFP ports are in addition to available copper Ethernet ports, providing a higher total number of available ports. SFP ports available on 24- and 48 port models
- IEEE 802.3af PoE-powered device option  
Obtains power provided by a standard PoE device connected to port 1; deploy the switch wherever an Ethernet cable can reach as a power outlet is not needed (8-port GbE non-PoE+ model only)

- 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; lowers the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments

- PoE+ port availability

Ports 1–4 provide PoE+ on the HP 1820-8G-PoE+ (65W) switch; ports 1–12 provide PoE+ on the HP 1820-24G-PoE+ (180W) switch; ports 1–24 provide PoE+ on the HP 1820-48G-PoE+ (370W) switch

- Auto-PoE power configuration

The switch automatically assigns the required power to a port for a PD device based on Link Layer Discovery Protocol (LLDP). Optionally, the switch permits manual, per port, PoE power configuration

- PoE shutdown mode

A PoE scheduler provides the ability to define the hours of PoE power being supplied to a group of switch ports based on a 24-hour day. The scheduler enables the flexibility to select individual days of a week as well as reoccurrence on a weekly basis with a start and end date.

- Energy Efficient Ethernet

Compliant with IEEE 802.3az standard requirements to save energy during periods of low data activity

- Auto-port shutdown

The switch saves power by automatically shutting down power to inactive ports. Power is restored on a port upon link detection

- Energy savings status

The switch provides an estimated cumulative energy savings due to green Ethernet features being enabled

### **Security**

- Secure Sockets Layer (SSL)

Encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch

- Automatic denial-of-service protection

Monitors nine types of malicious attacks and protects the network by blocking these attacks.

- Management password

Provides security so that only authorized access to the Web browser interface is allowed

### **Performance**

- Half-/full-duplex auto-negotiating capability on every port doubles the throughput of every port

- IGMP snooping

Improves network performance through multicast filtering, instead of flooding traffic to all ports

### **Layer 2 switching**

- VLAN support and tagging

Supports up to 64 port-based VLANs and dynamic configuration of IEEE 802.1Q VLAN tagging, providing security between workgroups

- Jumbo packet support

Improves the performance of large data transfers; supports frame size of up to 9,220 bytes

### **Resiliency and high availability**

- IEEE 802.1D Spanning Tree Protocol (STP) and IEEE 802.1W Rapid Spanning Tree Protocol (RSTP)

Provides redundant links while preventing network loops

- Link aggregation (trunking)

Brings together groups of ports automatically using Link Aggregation Control Protocol (LACP), or manually, to form an ultra-high bandwidth connection to the network backbone; helps prevent traffic bottlenecks; the 8-port models support four trunks, the 24-port models support eight trunks and the 48-port models support 16 trunks. The 8- and 24-port switches can support up to four trunk members, and the 48-port switches can support up to eight trunk members

### **Ease of use**

- Locator LED

Allows users to set the locator LED on a specific switch to either turn on, blink, or turn off; simplifies troubleshooting by making it easy to locate a particular switch within a rack of similar switches

- Comprehensive LED display with per-port indicators

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

### **Flexibility**

- Flexible installation

Allows mounting on wall, desktop, or under table with supplied hardware

- Rack mountable

All models include rack-mounting hardware for mounting in a standard 19-inch telco rack

- Kensington lock slot

Allows switches to be physically secured in open-space deployments (8- and 24-port models)

### **Convergence**

- LLDP-MED (Media Endpoint Discovery)

Defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones and access points, and allocate PoE power for more efficient energy savings

### **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](http://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](http://hp.com/networking/contact-support); for details on the duration of support provided with your product purchase, refer to [hp.com/networking/warrantysummary](http://hp.com/networking/warrantysummary)

## HP 1820 Switch Series

### Specifications



	HP 1820-8G Switch (J9979A)	HP 1820-8G-PoE+ (65W) Switch (J9982A)	HP 1820-24G Switch (J9980A)
<b>I/O ports and slots</b>	8 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only Supports a maximum of 8 autosensing 10/100/1000 ports	4 RJ-45 autosensing 10/100/1000 PoE+ ports; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only Supports a maximum of 8 autosensing 10/100/1000 ports	24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 SFP 100/1000 Mbps ports (IEEE 802.3z Type 1000BASE-X, IEEE 802.3u Type 100BASE-FX) Supports a maximum of 24 autosensing 10/100/1000 ports plus 2 SFP ports
<b>Physical characteristics</b>			
Dimensions	10(w) x 6.28(d) x 1.73(h) in (25.4 x 15.95 x 4.39 cm) (1U height)	10(w) x 6.28(d) x 1.73(h) in (25.4 x 15.95 x 4.39 cm) (1U height)	17.42(w) x 9.69(d) x 1.73(h) in (44.25 x 24.61 x 4.39 cm) (1U height)
Weight	1.81 lb (0.82 kg)	2.01 lb (0.91 kg)	6 lb (2.72 kg)
<b>Memory and processor</b>	ARM Cortex-A9 @ 400 MHz, 128 MB SDRAM, 16 MB flash; packet buffer size: 1.5 MB	ARM Cortex-A9 @ 400 MHz, 128 MB SRAM, 16 MB flash; packet buffer size: 1.5 MB	ARM Cortex-A9 @ 400 MHz, 128 MB SDRAM, 16 MB flash; packet buffer size: 1.5 MB
<b>Performance</b>			
100 Mb Latency	< 7 $\mu$ s (LIFO 64-byte packets)	< 7 $\mu$ s (LIFO 64-byte packets)	< 7 $\mu$ s (LIFO 64-byte packets)
1000 Mb Latency	< 2.4 $\mu$ s (LIFO 64-byte packets)	< 2.3 $\mu$ s (LIFO 64-byte packets)	< 2 $\mu$ s (LIFO 64-byte packets)
Throughput	up to 11.9 Mpps (64-byte packets)	up to 11.9 Mpps (64-byte packets)	up to 38.6 Mpps (64-byte packets)
Switching capacity	16 Gbps	16 Gbps	52 Gbps
MAC address table size	8000 entries	8000 entries	8000 entries
<b>Reliability</b>			
MTBF (years)	144.93	112.36	80.00
<b>Environment</b>			
Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Operating relative humidity	15% to 95% @ 104°F (40°C)	15% to 95% @ 104°F (40°C)	15% to 95% @ 104°F (40°C)
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Nonoperating/Storage relative humidity	15% to 95% @ 140°F (60°C)	15% to 95% @ 140°F (60°C)	15% to 95% @ 140°F (60°C)
Altitude	up to 9,842 ft (3 km)	up to 9,842 ft (3 km)	up to 9,842 ft (3 km)
Acoustic	Power: 0 dB no fan	Power: 0 dB no fan	Power: 0 dB no fan

	HP 1820-8G Switch (J9979A)	HP 1820-8G-PoE+ (65W) Switch (J9982A)	HP 1820-24G Switch (J9980A)
<b>Electrical characteristics</b>			
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
AC voltage	100 - 240 VAC	100 - 240 VAC	100 - 127 / 200 - 240 VAC
Current	.2 A	.9 A	.5/.3 A 22 W
Maximum power rating	12.2 W	83.9 W	16.9 W
Idle power	10.2 W	12.6 W	
PoE power		65 W PoE+	
<b>Notes</b>			
	Idle power is the actual power consumption of the device with no ports connected. 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.	Idle power is the actual power consumption of the device with no ports connected. 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. PoE Power is the power supplied by the internal power 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).	Idle power is the actual power consumption of the device with no ports connected. 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.
<b>Safety</b>			
	UL 60950-1; EN 60825; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1	UL 60950-1; EN 60825; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1
<b>Emissions</b>			
	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A
<b>Immunity</b>			
Generic	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
<b>Management</b>			
	Web browser	Web browser	Web browser
<b>Notes</b>			
	Use only supported genuine HP mini-GBICs with your switch.	Use only supported genuine HP mini-GBICs with your switch.	Use only supported genuine HP mini-GBICs with your switch.
<b>Services</b>			
	Refer to the HP website at <a href="http://hp.com/networking/services">hp.com/networking/services</a> 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 <a href="http://hp.com/networking/services">hp.com/networking/services</a> 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 <a href="http://hp.com/networking/services">hp.com/networking/services</a> 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 1820 Switch Series

### Specifications (continued)



	<b>HP 1820-24G-PoE+ (185W) Switch (J9983A)</b>	<b>HP 1820-48G Switch (J9981A)</b>	<b>HP 1820-48G-PoE+ (370W) Switch (J9984A)</b>
<b>I/O ports and slots</b>	12 RJ-45 autosensing 10/100/1000 PoE+ ports; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 12 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 SFP 100/1000 Mbps ports (IEEE 802.3z Type 1000BASE-X, IEEE 802.3u Type 100BASE-FX) Supports a maximum of 24 autosensing 10/100/1000 ports plus 2 SFP ports	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 SFP 100/1000 Mbps ports (IEEE 802.3z Type 1000BASE-X, IEEE 802.3u Type 100BASE-FX) Supports a maximum of 48 autosensing 10/100/1000 ports plus 4 SFP ports	24 RJ-45 autosensing 10/100/1000 PoE+ ports; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 SFP 100/1000 Mbps ports (IEEE 802.3z Type 1000BASE-X, IEEE 802.3u Type 100BASE-FX) Supports a maximum of 48 autosensing 10/100/1000 ports plus 4 SFP ports
<b>Physical characteristics</b>			
Dimensions	17.42(w) x 9.69(d) x 1.73(h) in (44.25 x 24.61 x 4.39 cm)(1U height)	17.42(w) x 9.69(d) x 1.73(h) in (44.25 x 24.61 x 4.39 cm) (1U height)	17.42(w) x 12.7(d) x 1.73(h) in (44.25 x 32.26 x 4.39 cm) (1U height)
Weight	7.3 lb (3.31 kg)	7.3 lb (3.31 kg)	9.7 lb (4.4 kg)
<b>Memory and processor</b>	ARM Cortex-A9 @ 400 MHz, 128 MB SDRAM, 16 MB flash; packet buffer size: 1.5 MB	ARM Cortex-A9 @ 400 MHz, 128 MB SDRAM, 16 MB flash; packet buffer size: 1.5 MB	ARM Cortex-A9 @ 400 MHz, 128 MB SDRAM, 16 MB flash; packet buffer size: 1.5 MB
<b>Performance</b>			
100 Mb Latency	< 7 μs (LIFO 64-byte packets)	< 7 μs (LIFO 64-byte packets)	< 7 μs (LIFO 64-byte packets)
1000 Mb Latency	< 2 μs (LIFO 64-byte packets)	< 2 μs (LIFO 64-byte packets)	< 2 μs (LIFO 64-byte packets)
Throughput	up to 38.6 Mpps (64-byte packets)	up to 77.3 Mpps (64-byte packets)	up to 77.3 Mpps (64-byte packets)
Switching capacity	52 Gbps	104 Gbps	104 Gbps
MAC address table size	8000 entries	16000 entries	16000 entries
<b>Reliability</b>			
MTBF (years)	64.52	61.73	45.05
<b>Environment</b>			
Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Operating relative humidity	15% to 95% @ 104°F (40°C)	15% to 95% @ 104°F (40°C)	15% to 95% @ 104°F (40°C)
Nonoperating/Storage temperature	-40°F to 70°F (-40°C to 21.1°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Nonoperating/Storage relative humidity	15% to 95% @ 140°F (60°C)	15% to 95% @ 140°F (60°C)	15% to 95% @ 140°F (60°C)
Altitude	up to 9,842 ft (3 km)	up to 9,842 ft (3 km)	up to 9,842 ft (3 km)
Acoustic	Power: 0 dB no fan	Power: 0 dB no fan	Power: 45 dB

	<b>HP 1820-24G-PoE+ (185W) Switch (J9983A)</b>	<b>HP 1820-48G Switch (J9981A)</b>	<b>HP 1820-48G-PoE+ (370W) Switch (J9984A)</b>
<b>Electrical characteristics</b>			
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
AC voltage	100 - 127 / 200 - 240 VAC	100 - 127 / 200 - 240 VAC	100 - 127 / 200 - 240 VAC
Current	2.6/1.3 A	.8/.5 A	5.1/2.6 A
Maximum power rating	240 W	39 W	481 W
Idle power	28.3 W	28.8 W	54.8 W
PoE power	185 W PoE+		370 W PoE+
	<b>Notes</b> Idle power is the actual power consumption of the device with no ports connected. 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. PoE Power is the power supplied by the internal power 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).	Idle power is the actual power consumption of the device with no ports connected. 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.	Idle power is the actual power consumption of the device with no ports connected. 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. PoE Power is the power supplied by the internal power 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).
<b>Safety</b>	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1
<b>Emissions</b>	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A
<b>Immunity</b>			
Generic	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11	IEC 61000-4-11
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
<b>Management</b>	Web browser	Web browser	Web browser
<b>Notes</b>	Use only supported genuine HP mini-GBICs with your switch.	Use only supported genuine HP mini-GBICs with your switch.	Use only supported genuine HP mini-GBICs with your switch.
<b>Services</b>	Refer to the HP website at <a href="http://hp.com/networking/services">hp.com/networking/services</a> 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 <a href="http://hp.com/networking/services">hp.com/networking/services</a> 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 <a href="http://hp.com/networking/services">hp.com/networking/services</a> 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.



**Standards and Protocols**

(applies to all products in series)

**Denial of service protection**

CPU DoS Protection

**General protocols**IEEE 802.1D Spanning Tree Protocol  
IEEE 802.1p Priority  
IEEE 802.1Q VLANsIEEE 802.1W Rapid Spanning Tree Protocol  
IEEE 802.3ad Link Aggregation Control Protocol (LACP)  
IEEE 802.3x Flow ControlRFC 1534 DHCP/BOOTP Interoperation  
RFC 2030 Simple Network Time Protocol (SNTP) v4**Network management**

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

## HP 1820 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 OM4 2 fiber 1m Cable (QK732A)  
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable (QK733A)  
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable (QK734A)  
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable (QK735A)  
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable (QK736A)  
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A)**Mounting Kit**

HP X410 1U Universal 4-post Rack Mounting Kit (J9583A)


**HP 1820-24G Switch (J9980A)**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 X111 100M SFP LC FX Transceiver (J9054C)**HP 1820-24G-PoE+ (185W) Switch (J9983A)**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 X111 100M SFP LC FX Transceiver (J9054C)**HP 1820-48G Switch (J9981A)**HP X121 1G SFP LC SX Transceiver (J4858C)  
HP X121 1G SFP LC LX Transceiver (J4859C)  
HP X121 1G SFP RJ45 T Transceiver (J8177C)  
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