



Poniższe informacje o produkcie pochodzą ze strony producenta i mają charakter informacyjny.

W celu poznania szczegółowej oferty zapraszamy do kontaktu.

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HP 1810 Switch Series



Key features

- Customized operation using intuitive Web interface
- Flexible connection and deployment options
- Layer 2 operation at wire speeds
- Fanless for quiet operation
- Lifetime warranty

Product overview

HP 1810 Switch Series devices are smart-managed, fixed-configuration Gigabit and Fast Ethernet Layer 2 switches designed for small businesses looking for key features in an easy-to-administer solution. The series includes 8- and 24-port Gigabit and Fast Ethernet models and a 48-port Gigabit switch. Specific models include SFP ports for fiber connectivity. All support flexible deployment options, including mounting on walls, under tables, or on desktops; some are fanless, ideal for office deployments. The 8-port Gigabit models can optionally be powered by an upstream Power over Ethernet (PoE) switch. Customizable features include VLANs, Spanning Tree, and link aggregation trunking. Newly offered are units designated "Version 2" (v2) with features including the latest energy-saving capabilities – Energy Efficient Ethernet (EEE) and idle-port power down – as well as Rapid Spanning Tree Protocol (RSTP) and DSCP QoS policies. All come with a lifetime warranty.

Features and benefits

Connectivity

- **Auto-MDI/MDIX**
automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports
- **Packet storm protection**
protects against broadcast, multicast, or unicast storms with user-defined thresholds
- **IEEE 802.3af PoE-powered device option (8-port Gigabit models)**
can obtain power from a standard PoE device on Port 1, making the switch ideal for deployments where a power outlet is not available; such flexibility helps you extend the network to wherever an Ethernet cable can reach
- **SFP ports for fiber connectivity**
 - **Three models with true non-combo SFP ports; two models with combo dual personality SFP ports**
use fiber connections for uplinks and other connections across longer distances than copper cabling. True SFP ports operate in addition to available copper Ethernet ports. Combo ports are shared connections, either operating as a copper connection or as a fiber connection.

Performance

- **Half-/Full-duplex auto-negotiating capability on every port**
doubles the throughput of every port
- **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 Gigabit models have four trunks of four links each, the 24-port Gigabit models have eight trunks of four links each, and the 1810-48G switch has 16 trunks of eight links each

Quality of Service (QoS)

- **Traffic prioritization (IEEE 802.1p)**
allows real-time traffic classification with eight priority levels mapped to four queues
- **NEW IEEE 802.1p prioritization with DSCP (v2 models)**
switch delivers data to devices based on the priority and type of traffic using Differentiated Services Code Point (DSCP)
- **Broadcast control**
allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic

Layer 2 switching

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

- **Jumbo packet support**
supports up to 9220-byte frame size to improve the performance of large data transfers

Resiliency and high availability

- **NEW IEEE 802.1D Spanning Tree Protocol (STP) and 802.1W Rapid Spanning Tree Protocol (RSTP) (v2 models)**
provides redundant links while preventing network loops

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 six types of malicious attacks and protects the network by blocking the attacks
- **Management password**
provides security so that only authorized access to the Web browser interface is allowed

Ease of use

- **Locator LED (switch)**
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 mounting options**
mounting options include wall, desktop, or under table configuration for flexible installation
- **Rack mountable (24- and 48-port models)**
offers a rack-mounting option with included hardware
- **Kensington lock slot**
allows switches to be physically secured in open-space deployments

Management

- **Simple Web management**
intuitive Web GUI allows for easy management of device by even nontechnical users
- **Secure Web GUI**
provides a secure, easy-to-use graphical interface for configuring the module via HTTPS
- **SNMPv1, v2c**
devices can be discovered and monitored from an SNMP management station
- **Dual flash images**
provide independent primary and secondary operating system files for backup while upgrading

- **Port mirroring**
enables traffic on a port to be simultaneously sent to a network analyzer for monitoring
- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP)**
automated device discovery protocol provides easy mapping of network management applications

Additional information

- **NEW Energy savings (v2 models)**
utilizes Energy Efficient Ethernet (EEE) IEEE 802.3az standard for lower power consumption
- **Green IT and power**
automatically places inactive ports in low power mode and its LED in power down mode to conserve energy
- **Green initiative support**
provides support for RoHS and WEEE regulations

Warranty and support

- **Lifetime warranty**
for as long as you own the product with advance replacement and next-business-day delivery (available in most countries)†
- **Electronic and telephone support**
limited electronic and telephone support is available from HP; to reach our support centers, refer to www.hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to www.hp.com/networking/warrantysummary

†HP warranty includes repair or replacement of hardware for as long as you own the product, with next business day advance replacement (available in most countries). The disk drive included with HP AllianceOne Advanced Services and Services z1 Modules, HP Threat Management Services z1 Module, HP AllianceOne Extended z1 Module with Riverbed Steelhead, HP MSM765z1 Mobility Controller and HP Survivable Branch Communication z1 Module powered by Microsoft Lync has a five-year hardware warranty. For details, refer to the Software license and hardware warranty statements at www.hp.com/networking/warranty.

HP 1810 Switch Series

Specifications



HP 1810-8G v2 Switch (J9802A)



HP 1810-24G v2 Switch (J9803A)



HP 1810-48G Switch (J9660A)

	HP 1810-8G v2 Switch (J9802A)	HP 1810-24G v2 Switch (J9803A)	HP 1810-48G Switch (J9660A)
Ports	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	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 autosensing 100/1000 ports (IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 100BASE-TX: half or full; 1000BASE-T: full only 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 autosensing 100/1000 ports (IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 100BASE-TX: half or full; 1000BASE-T: full only Supports a maximum of 48 autosensing 10/100/1000 ports plus 4 SFP ports
Physical characteristics			
Weight	7.93(w) x 4.65(d) x 1.73(h) in (20.14 x 11.81 x 4.4 cm) (1U height) 0.84 lb (.38 kg)	12.99(w) x 6.81(d) x 1.73(h) in (32.99 x 17.3 x 4.4 cm) (1U height) 2.54 lb (1.15 kg)	17.4(w) x 9.75(d) x 1.75(h) in (44.2 x 24.77 x 4.45 cm) (1U height) 6.31 lb (2.86 kg)
Memory and processor	128 MB RAM, 8 MB flash; packet buffer size: 512 KB	128 MB RAM, 8 MB flash; packet buffer size: 512 KB	8 MB flash, 64 MB SDRAM; packet buffer size: 1.5 MB
Mounting	wall, desktop and under table mounting	Mounts in an EIA-standard 19 in. telco rack (hardware included), horizontal surface, wall and under table mounting	Mounts in an EIA-standard 19 in. telco rack (hardware included); wall, desktop, tabletop, and under-table mounting
Performance			
100 Mb Latency	< 3.3 μs (64-byte packets)	< 3.3 μs (64-byte packets)	< 8.4 μs (64-byte packets)
1000 Mb Latency	< 2.3 μs (64-byte packets)	< 2.2 μs (64-byte packets)	< 3.2 μs (64-byte packets)
Throughput	up to 11.9 million pps	up to 38.7 million pps	up to 77.4 million pps (64-byte packets)
Switching capacity	16 Gbps	52 Gbps	104 Gbps
MAC address table size	8000 entries	8000 entries	16000 entries
Environment			
Operating temperature	0°F to 40°F (-17.8°C to 4.4°C)	0°F to 40°F (-17.8°C to 4.4°C)	32°F to 113°F (0°C to 45°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), noncondensing
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 90% @ 149°F (65°C), noncondensing
Altitude	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)
Acoustic	Power: 0 dB no fan	Power: 0 dB no fan	Power: 22 dB single fan
Electrical characteristics			
Maximum heat dissipation			204 BTU/hr (215.22 kJ/hr)
Voltage	100-240 VAC	100-127/200-240 VAC	100-127/200-240 VAC
Current	.5 A	.4/.3 A	0.9/0.5 A
Maximum power rating	7.2 W	22 W	60 W
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
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.	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.	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.
Safety	UL 60950-1; IEC 60950; EN 60950	UL 60950-1; IEC 60950; EN 60950	CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950
Emissions	EN 55022 Class A; CISPR 22 Class A; VCCI V-3; FCC (CFR 47, Part 15) Subpart B Class A; VCCI V-4	EN 55022 Class A; CISPR 22 Class A; VCCI V-3; FCC (CFR 47, Part 15) Subpart B Class A; VCCI V-4	EN 55022 Class A; CISPR 22 Class A; VCCI V-3; FCC (CFR 47, Part 15) Subpart B Class A; VCCI V-4
Immunity			
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	EN 61000-3-2	EN 61000-3-2
Flicker	EN 61000-3-3	EN 61000-3-3	EN 61000-3-3

HP 1810 Switch Series

Specifications (continued)

	HP 1810-8G v2 Switch (J9802A)	HP 1810-24G v2 Switch (J9803A)	HP 1810-48G Switch (J9660A)
Management	Web browser	Web browser	Web browser
Notes	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.
Services	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (UE256E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (UE257E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UE258E)</p> <p>3-year, 24x7 SW phone support, software updates (UE260E)</p> <p>Installation with minimum configuration, system-based pricing (U4826E)</p> <p>Installation with HP-provided configuration, system-based pricing (U4830E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR846E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR847E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR848E)</p> <p>4-year, 24x7 SW phone support, software updates (UR849E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR850E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR851E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR852E)</p> <p>5-year, 24x7 SW phone support, software updates (UR853E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW383E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW384E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW385E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR899E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR900E)</p> <p>1-year, 6-hour Call-To-Repair Onsite for hardware (HR903E)</p> <p>1-year, 24x7 software phone support, software updates (HR902E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR901E)</p> <p>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HU347E)</p> <p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HU348E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HU349E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HU350E)</p>	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)</p> <p>3-year, 24x7 SW phone support, software updates (UF792E)</p> <p>Installation with minimum configuration, system-based pricing (U4826E)</p> <p>Installation with HP-provided configuration, system-based pricing (U4830E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)</p> <p>4-year, 24x7 SW phone support, software updates (UR951E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)</p> <p>5-year, 24x7 SW phone support, software updates (UR955E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW369E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW370E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)</p> <p>1-year, 6-hour Call-To-Repair Onsite for hardware (HR853E)</p> <p>1-year, 24x7 software phone support, software updates (HR852E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)</p> <p>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)</p> <p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p>	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (HS854E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (HS856E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (HS858E)</p> <p>3-year, 24x7 SW phone support, software updates (UF792E)</p> <p>3-year, 24x7 SW phone support, software updates (HS859E)</p> <p>1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HS846E)</p> <p>1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HS848E)</p> <p>1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HS850E)</p> <p>Installation with minimum configuration, system-based pricing (U4826E)</p> <p>Installation with HP-provided configuration, system-based pricing (U4830E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (HS862E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (HS864E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HS866E)</p> <p>4-year, 24x7 SW phone support, software updates (HS867E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (HS870E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (HS872E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HS874E)</p> <p>5-year, 24x7 SW phone support, software updates (HS875E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (HS860E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (HS868E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (HS876E)</p> <p>1-year, 6-hour Call-To-Repair Onsite for hardware (HS852E)</p> <p>1-year, 24x7 software phone support, software updates (HS851E)</p>

Refer to the HP website at www.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 1810 Switch Series

Specifications (continued)

	HP 1810-8G v2 Switch (J9802A)	HP 1810-24G v2 Switch (J9803A)	HP 1810-48G Switch (J9660A)
	<p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS810E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS811E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS812E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS813E)</p> <p>Refer to the HP website at www.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.</p>	<p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.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.</p>	
<p>Standards and protocols (applies to all products in series)</p>	<p>Denial of service protection CPU DoS Protection</p> <p>General protocols IEEE 802.1p Priority IEEE 802.1Q VLANs</p>	<p>IEEE 802.3ad Link Aggregation (LAG) IEEE 802.3x Flow Control RFC 1534 DHCP/BOOTP Interoperation RFC 2030 Simple Network Time Protocol (SNTP) v4</p>	<p>Network management IEEE 802.1AB Link Layer Discovery Protocol (LLDP)</p>

HP 1810 Switch Series

Specifications (continued)



HP 1810-8 v2 Switch (J9800A)



HP 1810-24 v2 Switch (J9801A)

Ports	<p>7 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full</p> <p>1 RJ-45 autosensing 10/100/1000 port (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</p> <p>Supports a maximum of 7 autosensing 10/100 ports plus 1 autosensing 10/100/1000 ports</p>	<p>22 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full</p> <p>2 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</p> <p>2 SFP autosensing 100/1000 ports (IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 100BASE-TX: half or full; 1000BASE-T: full only</p> <p>Supports a maximum of 22 autosensing 10/100 ports plus 2 autosensing 10/100/1000 ports plus 2 SFP ports</p>
Physical characteristics		
Weight	7.93(w) x 4.65(d) x 1.73(h) in (20.14 x 20.15 x 4.4 cm) (1U height) 0.77 lb (.35 kg)	12.99(w) x 6.81(d) x 1.73(h) in (32.99 x 17.3 x 4.4 cm) (1U height) 2.2 lb (1 kg)
Memory and processor	128 MB RAM, 8 MB flash; packet buffer size: 512 KB	128 MB RAM, 8 MB flash; packet buffer size: 512 KB
Mounting	wall, desktop and under table mounting	Mounts in an EIA-standard 19 in. telco rack (hardware included), horizontal surface, wall and under table mounting
Performance		
100 Mb Latency	< 3.3 μs (64-byte packets)	< 3.4 μs (64-byte packets)
Throughput	up to 2.5 million pps	up to 9.2 million pps
Switching capacity	3.4 Gbps	12.4 Gbps
MAC address table size	8000 entries	8000 entries
Environment		
Operating temperature	0°F to 40°F (-17.8°C to 4.4°C)	0°F to 40°F (-17.8°C to 4.4°C)
Operating relative humidity	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)
Nonoperating/Storage relative humidity	15% to 95% @ 140°F (60°C)	15% to 95% @ 140°F (60°C)
Altitude	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)
Acoustic	Power: 0 dB no fan	Power: 0 dB no fan
Electrical characteristics		
Voltage	100-240 VAC	100-127/200-240 VAC
Current	.5 A	.4/.3 A
Maximum power rating	4.8 W	22 W
Frequency	50/60 Hz	50/60 Hz
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.	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.
Safety	UL 60950-1; IEC 60950; EN 60950	UL 60950-1; IEC 60950; EN 60950
Emissions	EN 55022 Class A; CISPR 22 Class A; VCCI V-3; FCC (CFR 47, Part 15) Subpart B Class A; VCCI V-4	EN 55022 Class A; CISPR 22 Class A; VCCI V-3; FCC (CFR 47, Part 15) Subpart B Class A; VCCI V-4
Immunity		
ESD	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3
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	EN 61000-3-2	EN 61000-3-2
Flicker	EN 61000-3-3	EN 61000-3-3
Management	Web browser	Web browser
Notes	Use only supported genuine HP mini-GBICs with your switch.	Use only supported genuine HP mini-GBICs with your switch.
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UE256E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UE257E)	3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E) 3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)

HP 1810 Switch Series

Specifications (continued)

	HP 1810-8 v2 Switch (J9800A)	HP 1810-24 v2 Switch (J9801A)
	<p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UE258E)</p> <p>3-year, 24x7 SW phone support, software updates (UE260E)</p> <p>Installation with minimum configuration, system-based pricing (U4826E)</p> <p>Installation with HP-provided configuration, system-based pricing (U4830E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR846E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR847E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR848E)</p> <p>4-year, 24x7 SW phone support, software updates (UR849E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR850E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR851E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR852E)</p> <p>5-year, 24x7 SW phone support, software updates (UR853E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW383E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW384E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW385E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR899E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR900E)</p> <p>1-year, 6 hour Call-To-Repair Onsite for hardware (HR903E)</p> <p>1-year, 24x7 software phone support, software updates (HR902E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR901E)</p> <p>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HU347E)</p> <p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HU348E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HU349E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HU350E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS810E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS811E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS812E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS813E)</p> <p>Refer to the HP website at www.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.</p>	<p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)</p> <p>3-year, 24x7 SW phone support, software updates (UF792E)</p> <p>Installation with minimum configuration, system-based pricing (U4826E)</p> <p>Installation with HP-provided configuration, system-based pricing (U4830E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)</p> <p>4-year, 24x7 SW phone support, software updates (UR951E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)</p> <p>5-year, 24x7 SW phone support, software updates (UR955E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW369E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW370E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)</p> <p>1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)</p> <p>1-year, 24x7 software phone support, software updates (HR852E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)</p> <p>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)</p> <p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.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.</p>
Standards and protocols (applies to all products in series)	<p>Denial of service protection</p> <p>CPU DoS Protection</p> <p>General protocols</p> <p>IEEE 802.1p Priority</p> <p>IEEE 802.1Q VLANs</p>	<p>IEEE 802.3ad Link Aggregation (LAG)</p> <p>IEEE 802.3x Flow Control</p> <p>RFC 1534 DHCP/BOOTP Interoperation</p> <p>RFC 2030 Simple Network Time Protocol (SNTP) v4</p> <p>Network management</p> <p>IEEE 802.1AB Link Layer Discovery Protocol (LLDP)</p>

HP 1810 Switch Series

Specifications (continued)



HP 1810-8G Switch (J9449A)



HP 1810-24G Switch (J9450A)

Ports	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	22 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 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers) Supports a maximum of 24 autosensing 10/100/1000 ports
Physical characteristics	7.73(w) x 4.58(d) x 1.73(h) in (19.63 x 11.63 x 4.39 cm) (1U height)	17.42(w) x 6.74(d) x 1.73(h) in (44.25 x 17.12 x 4.39 cm) (1U height)
Weight	1.19 lb (0.54 kg)	4.32 lb (1.96 kg)
Memory and processor	8 MB flash, 16 MB SDRAM; packet buffer size: 512 KB	8 MB flash, 16 MB SDRAM; packet buffer size: 512 KB
Mounting	Wall, ceiling, desktop, and under-table mounting	Mounts in an EIA-standard 19 in. telco rack (hardware included); wall, desktop, tabletop, and under-table mounting
Performance		
100 Mb Latency	< 3.9 μ s (64-byte packets)	< 7.4 μ s (64-byte packets)
1000 Mb Latency	< 2.1 μ s (64-byte packets)	< 3.0 μ s (64-byte packets)
Throughput	up to 11.9 million pps (64-byte packets)	up to 35.7 million pps (64-byte packets)
Switching capacity	16 Gbps	48 Gbps
MAC address table size	8000 entries	8000 entries
Environment		
Operating temperature	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), noncondensing	15% to 95% @ 104°F (40°C), noncondensing
Nonoperating/Storage temperature	-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 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing
Altitude	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)
Acoustic	Power: 0 dB no fan	Power: 0 dB no fan
Electrical characteristics		
Maximum heat dissipation	51 BTU/hr (53.81 kJ/hr)	102 BTU/hr (107.61 kJ/hr)
Voltage	100-240 VAC	100-127/200-240 VAC
Current	0.5 A	0.7/0.4 A
Maximum power rating	15 W	30 W
Frequency	50/60 Hz	50/60 Hz
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. The exact input voltage and frequency rating are determined by the specific power adapter part number ordered. Please select the correct power adapter 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.
Safety	CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950	CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950
Emissions	EN 55022 Class A; CISPR 22 Class A; VCCI V-3; FCC (CFR 47, Part 15) Subpart B Class A; VCCI V-4	EN 55022 Class A; CISPR 22 Class A; VCCI V-3; FCC (CFR 47, Part 15) Subpart B Class A; VCCI V-4
Immunity		
ESD	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3
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	EN 61000-3-2	EN 61000-3-2
Flicker	EN 61000-3-3	EN 61000-3-3
Management	Web browser	Web browser
Notes	Use only supported genuine HP mini-GBICs with your switch. Power: external AC power adapter and IEEE 802.3af-compatible PoE-PD, class 3 on Port 1	Use only supported genuine HP mini-GBICs with your switch.

HP 1810 Switch Series

Specifications (continued)

	HP 1810-8G Switch (J9449A)	HP 1810-24G Switch (J9450A)
Services	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (UE256E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (UE257E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UE258E)</p> <p>3-year, 24x7 SW phone support, software updates (UE260E)</p> <p>Installation with minimum configuration, system-based pricing (U4826E)</p> <p>Installation with HP-provided configuration, system-based pricing (U4830E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR846E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR847E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR848E)</p> <p>4-year, 24x7 SW phone support, software updates (UR849E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR850E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR851E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR852E)</p> <p>5-year, 24x7 SW phone support, software updates (UR853E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW383E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW384E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW385E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR899E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR900E)</p> <p>1-year, 6 hour Call-To-Repair Onsite for hardware (HR903E)</p> <p>1-year, 24x7 software phone support, software updates (HR902E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR901E)</p> <p>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HU347E)</p> <p>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HU348E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HU349E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HU350E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HSB10E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HSB11E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HSB12E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HSB13E)</p> <p>Refer to the HP website at www.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.</p>	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)</p> <p>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)</p> <p>3-year, 24x7 SW phone support, software updates (UF792E)</p> <p>Installation with minimum configuration, system-based pricing (U4826E)</p> <p>Installation with HP-provided configuration, system-based pricing (U4830E)</p> <p>4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)</p> <p>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)</p> <p>4-year, 24x7 SW phone support, software updates (UR951E)</p> <p>5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)</p> <p>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)</p> <p>5-year, 24x7 SW phone support, software updates (UR955E)</p> <p>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</p> <p>4 Yr 6 hr Call-to-Repair Onsite (UW369E)</p> <p>5 Yr 6 hr Call-to-Repair Onsite (UW370E)</p> <p>1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)</p> <p>1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)</p> <p>1-year, 24x7 software phone support, software updates (HR852E)</p> <p>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)</p> <p>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</p> <p>3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)</p> <p>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</p> <p>4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)</p> <p>5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)</p> <p>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</p> <p>Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. 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Standards and protocols (applies to all products in series)	<p>Denial of service protection</p> <p>CPU DoS Protection</p> <p>General protocols</p> <p>IEEE 802.1p Priority</p> <p>IEEE 802.1Q VLANs</p>	<p>IEEE 802.3ad Link Aggregation (LAG)</p> <p>IEEE 802.3x Flow Control</p> <p>RFC 1534 DHCP/BOOTP Interoperation</p> <p>RFC 2030 Simple Network Time Protocol (SNTP) v4</p> <p>Network management</p> <p>IEEE 802.1AB Link Layer Discovery Protocol (LLDP)</p>

HP 1810 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 0.5 m PremierFlex OM3+ LC/LC Optical Cable (BK837A)
HP 1 m PremierFlex OM3+ LC/LC Optical Cable (BK838A)
HP 2 m PremierFlex OM3+ LC/LC Optical Cable (BK839A)
HP 5 m PremierFlex OM3+ LC/LC Optical Cable (BK840A)
HP 15 m PremierFlex OM3+ LC/LC Optical Cable (BK841A)
HP 30 m PremierFlex OM3+ LC/LC Optical Cable (BK842A)
HP 50 m PremierFlex OM3+ LC/LC Optical Cable (BK843A)

Mounting Kit

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

HP 1810-24G v2 Switch (J9803A)

HP X111 100M SFP LC FX Transceiver (J9054C)
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 1810-48G Switch (J9660A)

HP X111 100M SFP LC FX Transceiver (J9054C)

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 1810-24 v2 Switch (J9801A)

HP X111 100M SFP LC FX Transceiver (J9054C)
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 1810-24G Switch (J9450A)

HP X111 100M SFP LC FX Transceiver (J9054C)
HP X121 1G SFP LC SX Transceiver (J4858C)
HP X121 1G SFP LC LX Transceiver (J4859C)

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