Key features

- Customized operation using intuitive Web interface
- Layer 3 static routing with 32 routes for network segmentation and expansion
- Access control lists for granular security control
- Spanning Tree Protocol: STP, RSTP, and MSTP
- HP Limited Lifetime warranty 2.0

Product overview

HP 1920 Switch Series consists of advanced smart-managed fixed-configuration Gigabit switches designed for small businesses in an easy-to-administer solution. By utilizing the latest design in silicon technology, this series is one of the most power efficient in the market.

The series has 9 switches: four non-PoE models and five PoE+ models. All models are equipped with additional Gigabit SFP ports for fiber connectivity. The 8-, 24- and 48-port models are available with or without PoE+.

The HP 1920 Switch Series provides a great value and includes features to satisfy even the most advanced small business network. All models support rack mounting or desktop operation. Customizable features include basic Layer 2 features like VLANs and link aggregation, as well as advanced features such as Layer 3 static routing, IPv6, ACLs, and Spanning Tree Protocols. The switches come with a limited lifetime warranty covering the unit, fans, power supplies, as well as 24x7 phone support for the first three years of ownership.
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)
• Single IP management
  Enables management of up to 32 HP 1920 switches using a single Web interface; simplifies management of multiple devices
• SNMPv1, v2c, and v3
  Facilitate management of the switch, as the device can be discovered and monitored from an SNMP management station
• Complete session logging
  Provides detailed information for problem identification and resolution
• 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
• Management security
  Restricts access to critical configuration commands; offers multiple privilege levels with password protection; ACLs provide TELNET and SNMP access; local and remote syslog capabilities allow logging of all access
• Network Time Protocol (NTP)
  Synchronizes timekeeping among distributed time servers and clients; keeps timekeeping consistent among all clock-dependent devices within the network so that the devices can provide diverse applications based on the consistent time
• Limited CLI
  Enables users to quickly deploy and troubleshoot devices in the network
• Default DHCP client mode
  Allows the switch to be directly connected to a network, enabling plug-and-play operation; in absence of a DHCP server on the network, the switch will fall back to a unique static address determined by the switch's MAC address
• FTP, TFTP, and SFTP support
  Offer different mechanisms for configuration updates; FTP allows bidirectional transfers over a TCP/IP network; trivial FTP (TFTP) is a simpler method using User Datagram Protocol (UDP); Secure File Transfer Protocol (SFTP) runs over an SSH tunnel to provide additional security
• Remote monitoring (RMON)
  Uses standard SNMP to monitor essential network functions; supports events, alarm, history, and statistics group plus a private alarm extension group

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
• IEEE 802.1p/Q VLAN tagging
  Delivers data to devices based on the priority and type of traffic; supports IEEE 802.1Q
• Advanced classifier based QoS
  Classifies traffic using multiple match criteria based on Layer 2, 3, and 4 information; applies QoS policies such as setting priority level and rate limit to selected traffic on a per-port basis
• Broadcast control
  Allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic
• Rate limiting
  Sets per-port ingress enforced maximums and per-port, per-queue minimums
• Class of Service (CoS)
  Sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ
• Powerful QoS feature
  Supports the following congestion actions: strict priority queuing (SP), weighted round robin (WRR) queuing, and SP+WRR

**Connectivity**
• IPv6
  – IPv6 host
    Enables switches to be managed and deployed at the IPv6 network's edge
  – IPv6 routing
    Supports IPv6 static routes
  – MLD snooping
    Forwards IPv6 multicast traffic to the appropriate interface, preventing traffic flooding
  – IPv6 ACL/QoS
    Supports ACL and QoS for IPv6 network traffic
• IEEE 802.3x Flow Control
  Provides a flow throttling mechanism propagated through the network to prevent packet loss at a congested node
• 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; mitigates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments
• Cable diagnostics
  Detects cable issues remotely using a browser-based tool
• Flow Control
  Provides back pressure using standard IEEE 802.3x, reducing congestion in heavy traffic situations
• Auto MDI/MDI-X
  Adjusts automatically for straight-through or crossover cables on all 10/100/1000 ports

**Security**
• Advanced access control lists (ACLs)
  Enables network traffic filtering and enhances network control using MAC- and IP-based ACLs; time-based ACLs allow for greater flexibility with managing network access
• IEEE 802.1X and RADIUS network logins
  Controls port-based access for authentication and accountability
• Secure Sockets Layer (SSL)
  Encrypts all HTTP traffic, allowing safe access to the browser-based management GUI in the switch
• Port isolation
  The port isolation feature isolates Layer 2 traffic for data privacy and security without using VLANs. This feature can also be used to isolate the hosts in a VLAN from one another
• Port security
Combines and extends IEEE 802.1X and MAC authentication to provide MAC-based network access control

• ARP attack protection
The ARP detection feature enables access devices to block ARP packets from unauthorized clients to prevent user spoofing and gateway spoofing attacks

• Automatic VLAN assignment
Assigns users automatically to the appropriate VLAN based on their identity, location, and time of day

• STP BPDU port protection
Blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks

• STP root guard
Protects the root bridge from malicious attacks or configuration mistakes

• Automatic denial-of-service protection
Monitors for 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

Performance
• Half-and full-duplex auto-negotiating capability on every port doubles the throughput of every port

• Selectable queue configurations
Allows for increased performance by selecting the number of queues and associated memory buffering that best meet the requirements of the network applications

• IGMP snooping
Improves network performance through multicast filtering, instead of flooding traffic on all ports

• Fiber uplink
Provides greater distance connectivity using Gigabit Ethernet fiber uplinks

Layer 2 switching
• Spanning Tree Protocol (STP)
Supports standard IEEE 802.1D STP, IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) for faster convergence, and IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)

• BPDU filtering
Drops BPDU packets when STP is enabled globally but disabled on a specific port

• Jumbo frame support
Supports up to 10 kilobyte frame size to improve the performance of large data transfers

• VLAN support and tagging
Support IEEE 802.1Q with 4,094 simultaneous VLAN IDs

Layer 3 services
• Address Resolution Protocol (ARP)
Determines the MAC address of another IP host in the same subnet; supports static ARPs; gratuitous ARP allows detection of duplicate IP addresses; proxy ARP allows normal ARP operation between subnets or when subnets are separated by a Layer 2 network

• DHCP Relay
Simplifies management of DHCP addresses in networks with multiple subnets
**Layer 3 routing**
- Static IPv4/IPv6 routing
  Provides basic routing (supporting up to 32 static routes and 8 virtual VLAN interfaces); allows manual routing configuration

**Resiliency and high availability**
- Available redundant power supply
  Provides additional PoE of up to 795 W for high-power applications like PTZ IP cameras, video IP phones; the HP RPS1600 Redundant Power System (JG136A), which is sold separately, is for use with the HP 1920-24G-PoE+ (370W) switch and HP 1920-48G-PoE+ Switch (370W) Switch models only
- Link aggregation
  Groups together multiple ports (up to a maximum of eight ports per trunk) automatically using Link Aggregation Control Protocol (LACP), or manually to form an ultra-high bandwidth connection to the network backbone; helps prevent traffic bottlenecks. Note: 8 port models support 4 trunks, 16 and 24 port models support 8 trunks, and 48 port models support 16 trunks

**Convergence**
- LLDP-MED (Media Endpoint Discovery)
  Defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to configure network devices such as IP phones automatically
- PoE allocations
  Support multiple methods (automatic, IEEE 802.3af class, LLDP-MED, or user-specified) to allocate PoE power for more efficient energy savings
- Auto-voice VLAN
  Recognizes IP phones and automatically assigns voice traffic to dedicated VLAN for IP phones

**Additional information**
- Green initiative support
  Provides support for RoHS and WEEE regulations
- Green IT and power
  Improves energy efficiency through the use of the latest advances in silicon development; shuts off unused ports and utilizes variable-speed fans, reducing energy costs
- Energy Efficient Ethernet
  Compliant with IEEE 802.3az standard requirements to save energy during periods of low data activity

**Warranty and support**
- HP Limited Lifetime Warranty 2.0
  Advance hardware replacement for as long as you own the product 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 1920 Switch Series

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>HP 1920-8G Switch (JG920A)</th>
<th>HP 1920-8G-PoE+ (65W) Switch (JG921A)</th>
<th>HP 1920-8G-PoE+ (180W) Switch (JG922A)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>I/O ports and slots</strong></td>
<td>8 RJ-45 auto-negotiating 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) 2 SFP 1000 Mbps ports Supports a maximum of 8 autosensing 10/100/1000 ports plus 2 1000BASE-X SFP ports, or a combination</td>
<td>8 RJ-45 auto-negotiating 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE, IEEE 802.3at) 2 SFP 1000 Mbps ports Supports a maximum of 8 autosensing 10/100/1000 ports plus 2 1000BASE-X SFP ports, or a combination</td>
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</tr>
<tr>
<td><strong>Additional ports and slots</strong></td>
<td>1 RJ-45 console port to access limited CLI port</td>
<td>1 RJ-45 console port to access limited CLI port</td>
<td>1 RJ-45 console port to access limited CLI port</td>
</tr>
<tr>
<td><strong>Physical characteristics</strong></td>
<td>Dimensions: 10.47(w) x 6.38(d) x 1.73(h) in (26.6 x 16.2 x 4.4 cm) (1U height) Weight: 1.98 lb (0.9 kg)</td>
<td>Dimensions: 12.99(w) x 9.06(d) x 1.73(h) in (33 x 23 x 4.4 cm) (1U height) Weight: 6.5 lb (2.95 kg)</td>
<td>Dimensions: 12.99(w) x 9.06(d) x 1.73(h) in (33 x 23 x 4.4 cm) (1U height) Weight: 7.05 lb (3.2 kg)</td>
</tr>
<tr>
<td><strong>Memory and processor</strong></td>
<td>MIPS @ 500 MHz, 32 MB flash, 128 MB SDRAM; packet buffer size: 4.1 Mb</td>
<td>MIPS @ 500 MHz, 32 MB flash, 128 MB SDRAM; packet buffer size: 4.1 Mb</td>
<td>MIPS @ 500 MHz, 32 MB flash, 128 MB SDRAM; packet buffer size: 4.1 Mb</td>
</tr>
<tr>
<td><strong>Mounting and enclosure</strong></td>
<td>Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included), Wall Mount</td>
<td>Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)</td>
<td>Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)</td>
</tr>
<tr>
<td><strong>Reliability</strong></td>
<td>MTBF (years): 128.20</td>
<td>76.33</td>
<td>64.51</td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td>Operating temperature: 32°F to 104°F (0°C to 40°C) Operating relative humidity: 10% to 90%, noncondensing Nonoperating/Storage temperature: -40°F to 158°F (-40°C to 70°C) Operating relative humidity: 10% to 95%, noncondensing Nonoperating/Storage relative humidity: up to 16,404 ft (5 km) Altitude: Pressure: 0 dB No Fan</td>
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</tr>
</tbody>
</table>
### HP 1920-8G Switch (JG920A)

- **Frequency**: 50/60 Hz
- **AC voltage**: 100 – 240 VAC
- **Maximum power rating**: 9 W
- **PoE power**: 65 W PoE+

### HP 1920-8G-PoE+ (65W) Switch (JG921A)

- **Frequency**: 50/60 Hz
- **AC voltage**: 100 – 240 VAC
- **Maximum power rating**: 94 W
- **PoE power**: 65 W PoE+

### HP 1920-8G-PoE+ (180W) Switch (JG922A)

- **Frequency**: 50/60 Hz
- **AC voltage**: 100 – 240 VAC
- **Maximum power rating**: 235 W
- **PoE power**: 180 W PoE+

### 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.

PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies.

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### Electrical characteristics

<table>
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<th>HP 1920-8G Switch (JG920A)</th>
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<th>HP 1920-8G-PoE+ (180W) Switch (JG922A)</th>
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<tr>
<td><strong>Frequency</strong></td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td><strong>AC voltage</strong></td>
<td>100 – 240 VAC</td>
<td>100 – 240 VAC</td>
<td>100 – 240 VAC</td>
</tr>
<tr>
<td><strong>Maximum power rating</strong></td>
<td>9 W</td>
<td>94 W</td>
<td>235 W</td>
</tr>
<tr>
<td><strong>PoE power</strong></td>
<td>65 W PoE+</td>
<td>65 W PoE+</td>
<td>180 W PoE+</td>
</tr>
</tbody>
</table>

### Safety

- UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
- UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
- UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03

### Emissions

- FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A
- FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A
- FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; ICES-003 Class A

### Management

- IMC—Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
- IMC—Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
- IMC—Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB

### Notes

SFP port and copper ports work simultaneously, independent of each other, to provide a total of 10 Gigabit switching ports.

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### 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.

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## HP 1920 Switch Series

### Specifications (continued)

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<td>16 RJ-45 auto-negotiating 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T)</td>
<td>24 RJ-45 auto-negotiating 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T)</td>
<td>24 RJ-45 auto-negotiating 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE, IEEE 802.3at)</td>
</tr>
<tr>
<td></td>
<td>4 SFP 1000 Mbps ports</td>
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</tr>
<tr>
<td></td>
<td>Supports a maximum of 16 autosensing 10/100/1000 ports plus 4 1000BASE-X SFP ports, or a combination</td>
<td>Supports a maximum of 24 autosensing 10/100/1000 ports plus 4 1000BASE-X SFP ports, or a combination</td>
<td>Supports a maximum of 24 autosensing 10/100/1000 ports plus 4 1000BASE-X SFP ports, or a combination</td>
</tr>
<tr>
<td><strong>Additional ports and slots</strong></td>
<td>1 RJ-45 console port to access limited CLI port</td>
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<td>1 RJ-45 console port to access limited CLI port</td>
</tr>
<tr>
<td><strong>Physical characteristics</strong></td>
<td>Dimensions: 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height)</td>
<td>Dimensions: 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height)</td>
<td>Dimensions: 17.32(w) x 9.37(d) x 1.73(h) in (44 x 23.8 x 4.4 cm) (1U height)</td>
</tr>
<tr>
<td></td>
<td>Weight: 4.74 lb (2.15 kg)</td>
<td>Weight: 4.96 lb (2.25 kg)</td>
<td>Weight: 7.5 lb (3.4 kg)</td>
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<td><strong>Memory and processor</strong></td>
<td>MIPS @ 500 MHz, 32 MB flash, 128 MB SDRAM; packet buffer size: 4.1 Mb</td>
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</tr>
<tr>
<td><strong>Performance</strong></td>
<td>Throughput: 29.8 Mpps (64-byte packets) 40 Gbps</td>
<td>Throughput: 41.7 Mpps (64-byte packets) 56 Gbps</td>
<td>Throughput: 41.7 Mpps (64-byte packets) 56 Gbps</td>
</tr>
<tr>
<td></td>
<td>MAC address table size: 8192 entries</td>
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</tr>
<tr>
<td><strong>Reliability</strong></td>
<td>MTBF (years): 125</td>
<td>MTBF (years): 120.48</td>
<td>MTBF (years): 68.96</td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td>Operating temperature: 32°F to 104°F (0°C to 40°C)</td>
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<td>Operating temperature: 32°F to 104°F (0°C to 40°C)</td>
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<td></td>
<td>Operating relative humidity: 10% to 90%, noncondensing</td>
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</tr>
<tr>
<td></td>
<td>Nonoperating/Storage temperature: -40°F to 158°F (-40°C to 70°C)</td>
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<tr>
<td></td>
<td>Nonoperating/Storage relative humidity: 10% to 95%, noncondensing up to 16,404 ft (5 km)</td>
<td>Nonoperating/Storage relative humidity: 10% to 95%, noncondensing up to 16,404 ft (5 km)</td>
<td>Nonoperating/Storage relative humidity: 10% to 95%, noncondensing up to 16,404 ft (5 km)</td>
</tr>
<tr>
<td></td>
<td>Altitude: No Fan</td>
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</tr>
<tr>
<td></td>
<td>Acoustic: No Fan</td>
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<tr>
<td>AC voltage</td>
<td>100 - 240 VAC</td>
<td>100 - 240 VAC</td>
<td>100 - 240 VAC</td>
</tr>
<tr>
<td>Maximum power rating</td>
<td>13 W</td>
<td>19 W</td>
<td>235 WPoE+</td>
</tr>
<tr>
<td>PoE power</td>
<td></td>
<td></td>
<td>180 WPoE+</td>
</tr>
</tbody>
</table>

#### 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.
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#### Safety

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#### Emissions

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#### Management

- IMC—Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
- IMC—Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
- IMC—Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB

#### Notes

- SFP ports and copper ports can work simultaneously, independent of each other, to provide a total of 20 Gigabit Ethernet-capable ports.
- SFP ports and copper ports can work simultaneously, independent of each other, to provide a total of 28 Gigabit Ethernet-capable ports.
- SFP ports and copper ports can work simultaneously, independent of each other, to provide a total of 28 Gigabit Ethernet-capable ports.

#### 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.
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### HP 1920 Switch Series

#### Specifications (continued)

<table>
<thead>
<tr>
<th>I/O ports and slots</th>
<th>HP 1920-24G-PoE+ (370W) Switch (JG926A)</th>
<th>HP 1920-48G Switch (JG927A)</th>
<th>HP 1920-48G-PoE+ (370W) Switch (JG928A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ports</td>
<td>24 RJ-45 auto-negotiating 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE, IEEE 802.3at)</td>
<td>48 RJ-45 auto-negotiating 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T)</td>
<td>48 RJ-45 auto-negotiating 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE, IEEE 802.3at)</td>
</tr>
<tr>
<td>SFP ports</td>
<td>4 SFP 1000 Mbps ports</td>
<td>Supports a maximum of 48 autosensing 10/100/1000 ports plus 4 1000BASE-X SFP ports, or a combination</td>
<td>Supports a maximum of 48 autosensing 10/100/1000 ports plus 4 1000BASE-X SFP ports, or a combination</td>
</tr>
</tbody>
</table>

| Additional ports and slots   | 1 RJ-45 console port to access limited CLI port | 1 RJ-45 console port to access limited CLI port | 1 RJ-45 console port to access limited CLI port |

<table>
<thead>
<tr>
<th>Physical characteristics</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>17.32(w) x 10.24(d) x 1.73(h) in (44 x 26 x 4.4 cm) (1U height)</td>
<td>7.5 lb (3.4 kg)</td>
<td>17.32(w) x 9.37(d) x 1.73(h) in (44 x 23.8 x 4.4 cm) (1U height)</td>
<td>6.94 lb (3.15 kg)</td>
<td>17.32(w) x 17.32(d) x 1.73(h) in (44 x 44 x 4.4 cm) (1U height)</td>
<td>9.48 lb (4.3 kg)</td>
</tr>
</tbody>
</table>

| Memory and processor         | MIPS @ 500 MHz, 32 MB flash, 128 MB SDRAM; packet buffer size: 4.1 Mb | MIPS @ 650 MHz, 32 MB flash, 128 MB SDRAM; packet buffer size: 12 Mb | MIPS @ 650 MHz, 32 MB flash, 128 MB SDRAM; packet buffer size: 12 Mb |

| Mounting and enclosure       | Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included) | Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included) | Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included) |

<table>
<thead>
<tr>
<th>Performance</th>
<th>1000 Mb Latency</th>
<th>Throughput</th>
<th>Routing/ Switching capacity</th>
<th>MAC address table size</th>
<th>Routing table size</th>
<th>MAC address table size</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td></td>
<td>&lt; 5 µs</td>
<td>&lt; 5 µs</td>
<td>up to 41.7 Mbps (64-byte packets)</td>
<td>56 Gbps</td>
<td>32 entries (IPv4), 32 entries (IPv6)</td>
<td>8192 entries</td>
</tr>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Reliability</th>
<th>MTBF (years)</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>65.78</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>76.92</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>44.44</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Environment</th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Operating temperature</td>
<td>Operating relative humidity</td>
<td>Nonoperating/Storage temperature</td>
<td>Nonoperating/Storage relative humidity</td>
<td>Altitude</td>
<td>Acoustic</td>
</tr>
<tr>
<td></td>
<td>32°F to 104°F (0°C to 40°C)</td>
<td>10% to 90%, noncondensing</td>
<td>-40°F to 158°F (-40°C to 70°C)</td>
<td>10% to 95%, noncondensing</td>
<td>up to 16,404 ft (5 km)</td>
<td>Low-speed fan: 44.9 dB, High-speed fan: 53.3 dB; ISO 7779</td>
</tr>
<tr>
<td></td>
<td>32°F to 104°F (0°C to 40°C)</td>
<td>10% to 90%, noncondensing</td>
<td>-40°F to 158°F (-40°C to 70°C)</td>
<td>10% to 95%, noncondensing</td>
<td>up to 16,404 ft (5 km)</td>
<td>Pressure: 50.0 dB; ISO 7779</td>
</tr>
<tr>
<td></td>
<td>32°F to 104°F (0°C to 40°C)</td>
<td>10% to 90%, noncondensing</td>
<td>-40°F to 158°F (-40°C to 70°C)</td>
<td>10% to 95%, noncondensing</td>
<td>up to 16,404 ft (5 km)</td>
<td>Low-speed fan: 47 dB, High-speed fan: 49.3 dB; ISO 7779</td>
</tr>
</tbody>
</table>
### Electrical characteristics

<table>
<thead>
<tr>
<th></th>
<th>HP 1920-24G-PoE+ (370W) Switch (JG926A)</th>
<th>HP 1920-48G Switch (JG927A)</th>
<th>HP 1920-48G-PoE+ (370W) Switch (JG928A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>AC voltage</td>
<td>100 - 240 VAC</td>
<td>100 - 240 VAC</td>
<td>100 - 240 VAC</td>
</tr>
<tr>
<td>Maximum power rating</td>
<td>370 W PoE+</td>
<td>32 W</td>
<td>370 W PoE+</td>
</tr>
<tr>
<td>PoE power</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

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 an external power supply (EPS).

When supplemented with the use of an HP RPS1600 Redundant Power System, up to 795 W of PoE+ can be supplied. Unit max. power consumption with RPS is 833 W.

### Safety

- UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
- UL 60950; IEC 60950-1; EN 60950-1-03
- UL 60950; IEC 60950-1; EN 60950-1-03

### Emissions

- FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; IEC 6003 Class A
- FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; IEC 6003 Class A
- FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; EN 55024; EN 61000-3-2 2000, 61000-3-3; IEC 6003 Class A

### Management

- IMC—Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
- IMC—Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
- IMC—Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB

### Notes

- SFP ports and copper ports can work simultaneously, independent of each other, to provide a total of 28 Gigabit switching ports.
- SFP ports and copper ports can work simultaneously, independent of each other, to provide a total of 52 Gigabit Ethernet-capable ports.
- SFP ports and copper ports can work simultaneously, independent of each other, to provide a total of 52 Gigabit switching ports.

### 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.

### Standards and Protocols (applies to all products in series)

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<th>Web UI</th>
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<td>IEEE 802.1w Rapid Reconfiguration of Spanning Tree</td>
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<td>IEEE 802.1p Priority</td>
<td>IEEE 802.3 Type 10BASE-T</td>
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<td></td>
<td>IEEE 802.1Q VLANs</td>
<td>IEEE 802.3ab 1000BASE-T</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.1x (MSTP)</td>
<td>IEEE 802.3ad Link Aggregation Control Protocol (LACP)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IEEE 802.3i 10BASE-T</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IEEE 802.3x Flow Control</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IEEE 802.3z 1000BASE-X</td>
</tr>
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</table>
## Standards and Protocols
*(applies to all products in series)*

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<th>RFC 1493 Bridge MIB</th>
<th>RFC 2021 RMONv2 MIB</th>
<th>RFC 2233 Interface MIB</th>
<th>RFC 2571 SNMP Framework MIB</th>
<th>RFC 2572 SNMP-MPD MIB</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>RFC 2573 SNMP-Notification MIB</td>
<td>RFC 2573 SNMP-Target MIB</td>
<td>RFC 2613 SMON MIB</td>
<td>RFC 2618 RADIIUS Client MIB</td>
<td>RFC 2656 Ethernet-Like-MIB</td>
<td>RFC 2667 IP Tunnel MIB</td>
</tr>
<tr>
<td></td>
<td>RFC 2668 BID 2.3 MIB</td>
<td>RFC 2674 BID 2.1 and IEEE BID 2.1Q Bridge MIB</td>
<td>RFC 2737 Entity MIB (Version 2)</td>
<td>RFC 3414 SNMP-User based-5M MIB</td>
<td>RFC 3415 SNMP-User based-ACM MIB</td>
<td>RFC 3418 MIB for SNMPv3</td>
</tr>
</tbody>
</table>

### Network management

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
- IEEE 802.1D (STP)
- RFC 2474 DiffServ Precedence, including 8 queues/port

### QoS/CoS

- IEEE 802.1P (CoS)

### Security

- IEEE 802.1X Port Based Network Access Control

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### HP 1920 Switch Series accessories

#### Transceivers

- 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)

#### 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)

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