

### Overview

#### Models

HP V1910-48G Switch	JE009A
HP V1910-24G-PoE (365 W) Switch	JE007A
HP V1910-24G-PoE (170 W) Switch	JE008A
HP V1910-24G Switch	JE006A
HP V1910-16G Switch	JE005A

#### Key features

- Customized operation using intuitive Web interface
- Layer 3 static routing with 32 routes
- Access control lists
- Spanning Tree: STP, RSTP, and MSTP
- 3-year warranty

#### Product overview

HHP V1910 Switch Series devices are advanced smart managed fixed-configuration Gigabit Ethernet Layer 2+ switches designed for small businesses looking for key enhanced features in an easy-to-administer solution. The series has five models: 16-, 24-, and 48-port 10/100/1000 non-PoE models; and two 24-port 10/100/1000 PoE models. All series switches have four additional true Gigabit Ethernet SFP ports for fiber connectivity. All V1910 models support rack mounting or desktop operation and use variable-speed fans for quiet operation. The V1910 switches operate at full wire speed and support QoS traffic prioritization and security features such as 802.1X network login, access control lists, and denial-of-service prevention. Customizable features include VLANs and link aggregation trunking as well as advanced features such as Layer 3 static routing and Spanning Tree Protocols (STP, RSTP, and MSTP). The V1910 switches come with a 3-year warranty, covering unit, fans, and power supplies.

#### Features and benefits

##### Quality of Service (QoS)

- **Traffic prioritization** (IEEE 802.1p): allows real-time traffic classification mapped to four hardware queues per port
- **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
- **Broadcast control**: allows limitation of broadcast traffic rate to cut down on unwanted broadcast traffic on the network
- **Rate limiting**: sets per-port ingress enforced maximums and per-port, per-queue guaranteed minimums

##### Management

- **Simple Web management**: intuitive Web GUI allows for easy management of device by even nontechnical users
- **Single IP management**: enables management of up to 32 V1910 devices using a single Web interface; simplifies management of multiple devices
- **Secure Web GUI**: provides a secure, easy-to-use graphical interface for configuring the module via HTTPS
- **SNMPv1, v2c, and v3**: devices can be discovered and monitored from an SNMP management station
- **Complete session logging**: provides detailed information for problem identification and resolution
- **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
- **Management security**: multiple privilege levels, with password protection, restrict access to critical configuration



### Overview

- commands; 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 consistent timekeeping among all clock-dependent devices within the network so that the devices can provide diverse applications based on the consistent time
  - **IEEE 802.1AB Link Layer Discovery Protocol (LLDP)**: automated device discovery protocol provides easy mapping by network management applications
  - **DHCP options**: client allows automatic setting of IP address
  - **Limited CLI**: enables users to quickly deploy and troubleshoot devices in the network
  - **RMON**: provides advanced monitoring and reporting capabilities for statistics, history, alarms, and events

### Connectivity

- **Auto-MDI/MDIX**: automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports
- **Non-shared SFP ports**: four true SFP mini-GBIC ports provide optional fiber connectivity such as Gigabit-SX and -LX; also supports SFP 1G RJ-45 copper connections
- **IEEE 802.3X flow control**: provides a flow throttling mechanism propagated through the network to prevent packet loss at a congested node
- **IEEE 802.3af Power over Ethernet (PoE) ready**: PWR models can provide up to 15.4 W per port to power standards-compliant IP phones, wireless LAN access points, Web cameras, and more
- **Packet storm protection**: protects against broadcast, multicast, or unicast storms with user-defined thresholds
- **Cable diagnostics**: remotely detect cable issues using a browser-based tool

### Performance

- **Auto-MDI/MDIX**: automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports
- **Non-shared SFP ports**: four true SFP mini-GBIC ports provide optional fiber connectivity such as Gigabit-SX and -LX; also supports SFP 1G RJ-45 copper connections
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- **Packet storm protection**: protects against broadcast, multicast, or unicast storms with user-defined thresholds
- **Cable diagnostics**: remotely detect cable issues using a browser-based tool
- **Fiber uplink**: provides greater distance connectivity using Gigabit fiber uplinks

### Resiliency and high availability

- **Redundant power supply** (365 PWR model only): RPS power supply provides additional PoE budget of up to 740 W for high power applications like Gigabit Ethernet IntelliJack switches; the HP A-RPS 1600 power supply (JG136A) is sold separately

### Layer 2 switching

- **VLAN support and tagging**: supports IEEE 802.1Q (4,094 VLAN IDs) and 256 VLANs simultaneously
- **Jumbo packet support**: supports up to 9220-byte frame size to improve performance of large data transfers
- **Spanning Tree**: fully supports standard IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol for faster convergence, and IEEE 802.1s Multiple Spanning Tree Protocol
- **BPDU filtering**: drops BPDU packets when STP is enabled globally but disabled on a specific port

### Layer 3 services

- **VLAN support and tagging**: supports IEEE 802.1Q (4,094 VLAN IDs) and 256 VLANs simultaneously
- **Jumbo packet support**: supports up to 9220-byte frame size to improve performance of large data transfers
- **Spanning Tree**: fully supports standard IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol for faster convergence, and IEEE 802.1s Multiple Spanning Tree Protocol



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- **BPDU filtering:** drops BPDU packets when STP is enabled globally but disabled on a specific port

### Layer 3 routing

- **Static IPv4 routing:** provides basic routing (supporting up to 32 static routes); allows manual configuration of routing

### Security

- **Advanced access control lists (ACLs):** MAC and IP-based ACLs enable network traffic filtering and enhance network control; time-based ACLs allow for greater flexibility with managing network access
- **Secure Sockets Layer (SSL):** encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- **IEEE 802.1X and RADIUS network logins:** control port-based access for authentication and accountability
- **Port security:** allows access only to specified MAC addresses, which can be learned or specified by the administrator
- **Automatic VLAN assignment:** automatically assigns users to the appropriate VLAN based on their identity and location and the 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 attack 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

### Convergence

- **LLDP-MED (Media Endpoint Discovery):** is a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones
- **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:** use the latest advances in silicon development, shut off unused ports, and use variable-speed fans to improve power efficiency

### Warranty and support

- **3-year warranty:** 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; refer to: [www.hp.com/networking/warranty](http://www.hp.com/networking/warranty) for details on the support provided and the period during which support is available

### Technical Specifications

#### HP V1910-48G Switch (JE009A)

<b>Ports</b>	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) 4 SFP 1000 Mbps ports Supports a maximum of 48 autosensing 10/100/1000 ports plus 4 1000Base-X SFP ports, or a combination
<b>Physical characteristics</b>	<b>Dimensions</b> 10.24(d) x 17.4(w) x 1.7(h) in. (26.01 x 44.2 x 4.32 cm) (1U height) <b>Weight</b> 6.8 lb. (3.08 kg)
<b>Memory and processor</b>	<b>Module</b> ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB
<b>Mounting</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)
<b>Performance</b>	<b>100 Mb Latency</b> < 5 $\mu$ s <b>1000 Mb Latency</b> < 5 $\mu$ s <b>Throughput</b> 77.4 million pps <b>Routing/Switching capacity</b> 104 Gbps <b>Routing table size</b> 32 entries
<b>Environment</b>	<b>Operating temperature</b> 32°F to 113°F (0°C to 45°C) <b>Operating relative humidity</b> 10% to 90%, non-condensing <b>Nonoperating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C) <b>Nonoperating/Storage relative humidity</b> 10% to 95%, non-condensing
<b>Electrical characteristics</b>	<b>Voltage</b> 100-240 VAC <b>Frequency</b> 50 / 60 Hz
<b>Achieved Miercom Certified Green Award</b>	
<b>Safety</b>	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
<b>Emissions</b>	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
<b>Management</b>	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
<b>Notes</b>	The HP V1910-48G Switch (JE009A) was formerly sold as the 3Com Baseline Plus 2952 (3CRBSG5293) and may ship with this product labeling. SFP ports and copper ports work simultaneously, independent of each other to give a total of 52 Gigabit-capable ports.
<b>Services</b>	3-year, 4-hour onsite, 13x5 coverage for hardware (UV804E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW033E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UW036E) 3-year, 24x7 SW phone support, software updates (UV807E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV805E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW034E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW037E) 4-year, 24x7 SW phone support, software updates (UV808E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV806E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UW035E)



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5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW038E)  
 5-year, 24x7 SW phone support, software updates (UV809E)  
 3 Yr 6 hr Call-to-Repair Onsite (UW039E)  
 4 Yr 6 hr Call-to-Repair Onsite (UW040E)  
 5 Yr 6 hr Call-to-Repair Onsite (UW041E)

Refer to the HP website at: [www.hp.com/networking/services](http://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 V1910-24G-PoE (365 W) Switch (JE007A)

<b>Ports</b>	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) 4 SFP 1000 Mbps ports Supports a maximum of 24 autosensing 10/100/1000 ports plus 4 1000BASE-X SFP ports, or a combination
<b>Physical characteristics</b>	<b>Dimensions</b> 16.54(d) x 17.4(w) x 1.7(h) in. (42.01 x 44.2 x 4.32 cm) (1U height) <b>Weight</b> 6.8 lb. (3.08 kg)
<b>Memory and processor</b>	<b>Module</b> ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB
<b>Mounting</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)
<b>Performance</b>	<b>100 Mb Latency</b> < 5 $\mu$ s <b>1000 Mb Latency</b> < 5 $\mu$ s <b>Throughput</b> 41.7 million pps <b>Routing/Switching capacity</b> 56 Gbps <b>Routing table size</b> 32 entries
<b>Environment</b>	<b>Operating temperature</b> 32°F to 113°F (0°C to 45°C) <b>Operating relative humidity</b> 10% to 90%, non-condensing <b>Non-operating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C) <b>Non-operating/Storage relative humidity</b> 10% to 95%, non-condensing
<b>Electrical characteristics</b>	<b>Voltage</b> 100-240 VAC <b>Frequency</b> 50 / 60 Hz
<b>Safety</b>	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
<b>Emissions</b>	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
<b>Management</b>	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
<b>Notes</b>	The HP V1910-24G-PoE (365 W) Switch (JE007A) was formerly sold as the 3Com Baseline Plus 2928 HPWR (3CRBSG28HPWR93) and may ship with this product labeling. SFP ports and copper ports can work simultaneously, independent of each other to give a total of 28 Gigabit-capable ports



### Technical Specifications

<b>Services</b>	3-year, 4-hour onsite, 13x5 coverage for hardware (UV804E)
	3-year, 4-hour onsite, 24x7 coverage for hardware (UW033E)
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UW036E)
	3-year, 24x7 SW phone support, software updates (UV807E)
	Installation with minimum configuration, system-based pricing (UW451E)
	4-year, 4-hour onsite, 13x5 coverage for hardware (UV805E)
	4-year, 4-hour onsite, 24x7 coverage for hardware (UW034E)
	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW037E)
	4-year, 24x7 SW phone support, software updates (UV808E)
	5-year, 4-hour onsite, 13x5 coverage for hardware (UV806E)
	5-year, 4-hour onsite, 24x7 coverage for hardware (UW035E)
	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW038E)
	5-year, 24x7 SW phone support, software updates (UV809E)
	3 Yr 6 hr Call-to-Repair Onsite (UW039E)
4 Yr 6 hr Call-to-Repair Onsite (UW040E)	
5 Yr 6 hr Call-to-Repair Onsite (UW041E)	

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#### HP V1910-24G-PoE (170 W) Switch (JE008A)

<b>Ports</b>	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)
	4 SFP 1000 Mbps ports
	Supports a maximum of 24 autosensing 10/100/1000 ports plus 4 1000BASE-X SFP ports, or a combination
<b>Physical characteristics</b>	<b>Dimensions</b> 16.54(d) x 17.4(w) x 1.7(h) in. (42.01 x 44.2 x 4.32 cm) (1U height)
	<b>Weight</b> 6.8 lb. (3.08 kg)
<b>Memory and processor</b>	<b>Module</b> ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB
<b>Mounting</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)
<b>Performance</b>	<b>100 Mb Latency</b> < 5 $\mu$ s
	<b>1000 Mb Latency</b> < 5 $\mu$ s
	<b>Throughput</b> 41.7 million pps
	<b>Routing/Switching capacity</b> 56 Gbps
	<b>Routing table size</b> 32 entries
<b>Environment</b>	<b>Operating temperature</b> 32°F to 113°F (0°C to 45°C)
	<b>Operating relative humidity</b> 10% to 90%, non-condensing
	<b>Non-operating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C)
	<b>Non-operating/Storage relative humidity</b> 10% to 95%, non-condensing
<b>Electrical characteristics</b>	<b>Voltage</b> 100-240 VAC
	<b>Frequency</b> 50 / 60 Hz



### Technical Specifications

<b>Safety</b>	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
<b>Emissions</b>	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
<b>Management</b>	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
<b>Notes</b>	The HP V1910-24G-PoE (170 W) Switch (JE008A) was formerly sold as the 3Com Baseline Plus 2928 PWR (3CRBSG28PWR93) and may ship with this product labeling. SFP ports and copper ports work simultaneously, independent of each other to give a total of 28 Gigabit-capable ports.
<b>Standards and protocols</b> (applies to all products in series)	<b>Device management</b> RFC 2819 RMON  <b>General protocols</b> IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s (MSTP) IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3 Type 10BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3i 10BASE-T IEEE 802.3x Flow Control IEEE 802.3z 1000BASE-X  <b>MIBs</b> RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2021 RMONv2 MIB RFC 2233 Interface MIB RFC 2233 Interfaces MIB RFC 2571 SNMP Framework MIB RFC 2572 SNMP-MPD MIB RFC 2573 SNMP-Notification MIB RFC 2573 SNMP-Target MIB RFC 2613 SMON MIB RFC 2618 RADIUS Client MIB RFC 2620 RADIUS Accounting MIB RFC 2665 Ethernet-Like-MIB RFC 2667 IP Tunnel MIB RFC 2668 802.3 MAU MIB RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 2737 Entity MIB (Version 2) RFC 3414 SNMP-User based-SM MIB RFC 3415 SNMP-View based-ACM MIB RFC 3418 MIB for SNMPv3  <b>Network management</b> IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.1D (STP) RFC 1215 SNMP Generic traps

### Technical Specifications

#### QoS/Cos

IEEE 802.1P (CoS)

#### Security

IEEE 802.1X Port Based Network Access Control

#### HP V1910-24G Switch (JE006A)

<b>Ports</b>	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) 4 SFP 1000 Mbps ports Supports a maximum of 24 autosensing 10/100/1000 ports plus 4 1000Base-X SFP ports, or a combination
<b>Physical characteristics</b>	<b>Dimensions</b> 6.3(d) x 17.4(w) x 1.7(h) in. (16 x 44.2 x 4.32 cm) (1U height) <b>Weight</b> 6.8 lb. (3.08 kg)
<b>Memory and processor</b>	<b>Module</b> ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB
<b>Mounting</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)
<b>Performance</b>	<b>100 Mb Latency</b> < 5 $\mu$ s <b>1000 Mb Latency</b> < 5 $\mu$ s <b>Throughput</b> 41.7 million pps <b>Routing/Switching capacity</b> 56 Gbps <b>Routing table size</b> 32 entries
<b>Environment</b>	<b>Operating temperature</b> 32°F to 113°F (0°C to 45°C) <b>Operating relative humidity</b> 10% to 90%, non-condensing <b>Non-operating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C) <b>Non-operating/Storage relative humidity</b> 10% to 95%, non-condensing
<b>Electrical characteristics</b>	<b>Voltage</b> 100-240 VAC <b>Frequency</b> 50 / 60 Hz
<b>Safety</b>	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
<b>Emissions</b>	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
<b>Management</b>	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
<b>Notes</b>	The HP V1910-24G Switch (JE006A) was formerly sold as the 3Com Baseline Plus 2928 (3CRBSG2893) and may ship with this product labeling. SFP ports and copper ports can work simultaneously, independent of each other to give a total of 28 Gigabit-capable ports.
<b>Services</b>	3-year, 4-hour onsite, 13x5 coverage for hardware (UV804E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW033E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UW036E) 3-year, 24x7 SW phone support, software updates (UV807E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV805E)



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4-year, 4-hour onsite, 24x7 coverage for hardware (UW034E)  
 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW037E)  
 4-year, 24x7 SW phone support, software updates (UV808E)  
 5-year, 4-hour onsite, 13x5 coverage for hardware (UV806E)  
 5-year, 4-hour onsite, 24x7 coverage for hardware (UW035E)  
 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW038E)  
 5-year, 24x7 SW phone support, software updates (UV809E)  
 3 Yr 6 hr Call-to-Repair Onsite (UW039E)  
 4 Yr 6 hr Call-to-Repair Onsite (UW040E)  
 5 Yr 6 hr Call-to-Repair Onsite (UW041E)

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#### HP V1910-16G Switch (JE005A)

<b>Ports</b>	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) 4 SFP 1000 Mbps ports Supports a maximum of 16 autosensing 10/100/1000 ports plus 4 1000Base-X SFP ports, or a combination
<b>Physical characteristics</b>	<b>Dimensions</b> 6.3(d) x 17.4(w) x 1.7(h) in. (16 x 44.2 x 4.32 cm) (1U height) <b>Weight</b> 6.8 lb. (3.08 kg)
<b>Memory and processor</b>	<b>Module</b> ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB
<b>Mounting</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)
<b>Performance</b>	<b>100 Mb Latency</b> < 5 $\mu$ s <b>1000 Mb Latency</b> < 5 $\mu$ s <b>Throughput</b> 29.8 million pps <b>Routing/Switching capacity</b> 40 Gbps <b>Routing table size</b> 32 entries
<b>Environment</b>	<b>Operating temperature</b> 32°F to 113°F (0°C to 45°C) <b>Operating relative humidity</b> 10% to 90%, non-condensing <b>Non-operating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C) <b>Non-operating/Storage relative humidity</b> 10% to 95%, non-condensing
<b>Electrical characteristics</b>	<b>Voltage</b> 100-240 VAC <b>Frequency</b> 50 / 60 Hz
<b>Safety</b>	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03
<b>Emissions</b>	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
<b>Management</b>	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB

### Technical Specifications

**Notes** The HP V1910-16G Switch (JE005A) was formerly sold as the 3Com Baseline Plus PWR 2920 (3CRBSG2093) and may ship with this product labeling. SFP ports and copper ports can work simultaneously, independent of each other to give a total of 20 Gigabit-capable ports.

**Services**

- 3-year, 4-hour onsite, 13x5 coverage for hardware (UV804E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (UW033E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UW036E)
- 3-year, 24x7 SW phone support, software updates (UV807E)
- Installation with minimum configuration, system-based pricing (UW451E)
- 4-year, 4-hour onsite, 13x5 coverage for hardware (UV805E)
- 4-year, 4-hour onsite, 24x7 coverage for hardware (UW034E)
- 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW037E)
- 4-year, 24x7 SW phone support, software updates (UV808E)
- 5-year, 4-hour onsite, 13x5 coverage for hardware (UV806E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware (UW035E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW038E)
- 5-year, 24x7 SW phone support, software updates (UV809E)
- 3 Yr 6 hr Call-to-Repair Onsite (UW039E)
- 4 Yr 6 hr Call-to-Repair Onsite (UW040E)
- 5 Yr 6 hr Call-to-Repair Onsite (UW041E)

Refer to the HP website at: [www.hp.com/networking/services](http://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.

### Standards and protocols

(applies to all products in series)

#### Device management

RFC 2819 RMON

#### General protocols

- IEEE 802.1D MAC Bridges
- IEEE 802.1p Priority
- IEEE 802.1Q VLANs
- IEEE 802.1s (MSTP)
- IEEE 802.1w Rapid Reconfiguration of Spanning Tree
- IEEE 802.3 Type 10BASE-T
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- IEEE 802.3i 10BASE-T
- IEEE 802.3x Flow Control
- IEEE 802.3z 1000BASE-X

#### MIBs

- RFC 1213 MIB II
- RFC 1493 Bridge MIB
- RFC 2021 RMONv2 MIB
- RFC 2233 Interface MIB
- RFC 2233 Interfaces MIB
- RFC 2571 SNMP Framework MIB
- RFC 2572 SNMP-MPD MIB
- RFC 2573 SNMP-Notification MIB
- RFC 2573 SNMP-Target MIB
- RFC 2613 SMON MIB
- RFC 2618 RADIUS Client MIB
- RFC 2620 RADIUS Accounting MIB



### *Technical Specifications*

- RFC 2665 Ethernet-Like-MIB
- RFC 2667 IP Tunnel MIB
- RFC 2668 802.3 MAU MIB
- RFC 2674 802.1p and IEEE 802.1Q Bridge MIB
- RFC 2737 Entity MIB (Version 2)
- RFC 3414 SNMP-User based-SM MIB
- RFC 3415 SNMP-View based-ACM MIB
- RFC 3418 MIB for SNMPv3

#### **Network management**

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
- IEEE 802.1D (STP)
- RFC 1215 SNMP Generic traps

#### **QoS/Cos**

- IEEE 802.1P (CoS)

#### **Security**

- IEEE 802.1X Port Based Network Access Control

### Accessories

#### HP V1910 Switch Series accessories

#### Transceivers

HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X125 1G SFP RJ45 T Transceiver	JD089B
HP X121 1G SFP LC LX Tran	J4859C
HP X121 1G SFP RJ45 T Transceiver	J8177C
HP X124 1G SFP LC SX Transceiver	JD493A
HP X124 1G SFP LC LX Transceiver	JD494A

#### Cables

HP .5m Multi-mode OM3 LC/LC Optical Cable	AJ833A
HP 1m Multi-mode OM3 LC/LC Optical Cable	AJ834A
HP 2m Multi-mode OM3 LC/LC Optical Cable	AJ835A
HP 5m Multi-mode OM3 LC/LC Optical Cable	AJ836A
HP 15m Multi-mode OM3 LC/LC Optical Cable	AJ837A
HP 30m Multi-mode OM3 LC/LC Optical Cable	AJ838A
HP 50m Multi-mode OM3 LC/LC Optical Cable	AJ839A
NEW HP 0.5 m PremierFlex OM3+ LC/LC Optical Cable	BK837A
NEW HP 1 m PremierFlex OM3+ LC/LC Optical Cable	BK838A
NEW HP 2 m PremierFlex OM3+ LC/LC Optical Cable	BK839A
NEW HP 5 m PremierFlex OM3+ LC/LC Optical Cable	BK840A
NEW HP 15 m PremierFlex OM3+ LC/LC Optical Cable	BK841A
NEW HP 30 m PremierFlex OM3+ LC/LC Optical Cable	BK842A
NEW HP 50 m PremierFlex OM3+ LC/LC Optical Cable	BK843A

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