

# QuickSpecs

## HPE 1910 Switch Series

### Overview

### HPE 1910 Switch Series

#### Models

HP 1910-48G Switch	JE009A
HP 1910-24G-PoE (365W) Switch	JE007A
HP 1910-24G-PoE(170W) Switch	JE008A
HP 1910-24G Switch	JE006A
HP 1910-16G Switch	JE005A
HP 1910-8G Switch	JG348A
HP 1910-8G-PoE+ (65W) Switch	JG349A
HP 1910-8G-PoE+ (180W) Switch	JG350A
HP 1910-24 Switch	JG538A
HP 1910-8 Switch	JG536A
HP 1910-48 Switch	JG540A
HP 1910-8 -PoE+ Switch	JG537A
HP 1910-24-PoE+ Switch	JG539A

#### Key features

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

#### Product overview

The HPE 1910 Switch Series consists of advanced smart-managed fixed-configuration Gigabit and Fast Ethernet 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 13 switches: eight Gigabit Ethernet and five Fast Ethernet models. The 8-, 16-, 24-, and 48-port 10/100/1000 models are equipped with additional Gigabit SFP ports for fiber connectivity; in addition to non-PoE models, the 8- and 24-port Gigabit Ethernet models are available with PoE (at two different levels) or without PoE. The 10/100 models are available with 8, 24 and 48 ports, and come with two additional combination uplink ports. The 8- and 24-port Fast Ethernet models are available with or without PoE.

The HPE 1910 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, and power supplies.

#### Features and benefits



## Overview

### Management

- **Simple Web management**  
allows for easy management of the switch- even by nontechnical users- through an intuitive Web GUI; http and secure http (https) is supported
- **Single IP management**  
enables management of up to four HPE 1910 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**  
facilitates 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
- **Dual flash images**  
provides 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**  
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
- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP)**  
advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications
- **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
- **Default DHCP client mode**  
allows the switch to be directly connected to a network, enabling plug-and-play operation; in absence of DHCP server on the network, the switch will fallback to a unique static address determined by the MAC address of the switch

### Quality of Service (QoS)

- **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
- **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 four hardware queues for more effective throughput

### Connectivity

- **IPv6**
  - **IPv6 host**

## Overview

- 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
- **Auto-MDI/MDIX**
  - adjusts automatically for straight-through or crossover cables on all 10/100/1000 ports
- **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**
  - provides up to 15.4 W per port to power standards-compliant IP phones, wireless LAN access points, Web cameras, and more (all PoE models)
- **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; eliminates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments.  
(**NOTE:** applies to all PoE models, except the two 24G-PoE models which support a pre-standard implementation of PoE+)
- **Packet storm protection**
  - protects against broadcast, multicast, or unicast storms with user-defined thresholds
- **Cable diagnostics**
  - detects cable issues remotely, using a browser-based tool

## 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
- **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**
  - controls port-based access for authentication and accountability
- **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 mistake
- **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-/full-duplex auto-negotiating capability on every port**
  - doubles the throughput of every port
- **Selectable queue configurations**

## Overview

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 to all ports
- **Fiber uplink**  
provides greater distance connectivity using Gigabit fiber uplinks

## Layer 2 switching

- **VLAN support and tagging**  
supports IEEE 802.1Q (4,094 VLAN IDs) and 256 VLANs simultaneously
- **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

## 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

- **NEW Static IPv4/IPv6 routing**  
provides basic routing (supporting up to 32 static routes and 8 virtual VLAN interfaces); allows manual configuration of routing

## Resiliency and high availability

- **Available redundant power supply**  
provides additional PoE of up to 740 W for high-power applications like HPE Gigabit Ethernet IntelliJack switches; the HPE RPS1600 Redundant Power System (JG136A), sold separately, is only for use with the 1910-24G-PoE (365W) Switch model
- **Link aggregation**  
groups together multiple ports (up to a maximum of 2 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

## Convergence

- **LLDP-MED (Media Endpoint Discovery)**  
defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones

## Overview

- **PoE allocations**  
supports 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 regulation
- **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

## Warranty and support

- **Limited Lifetime Warranty**  
See <http://www.hpe.com/networking/warrantysummary> for warranty and support information included with your product purchase.

## Configuration

**Build To Order:** BTO is a standalone unit with no integration. BTO products ship standalone are not part of a CTO or Rack-Shippable solution.

### HP 1910-8 Switch

- 8 RJ-45 autosensing 10/100 ports
- 2 SFP dual-personality 1000 Mbps ports
- min=0 \ max=2 SFP Transceivers
- 1U - Height

JG536A

See Configuration

**NOTE:** 2,3

### HP 1910-8 -PoE+ Switch

- 8 RJ-45 auto-negotiating 10/100 ports
- 2 SFP dual-personality 1000 Mbps ports
- min=0 \ max=2 SFP Transceivers
- 1U - Height

JG537A

See Configuration

**NOTE:**2,3

### HP 1910-8G Switch

- 8 RJ-45 auto-negotiating 10/100/1000 ports
- 1 SFP 1000 Mbps port
- min=0 \ max=1 SFP Transceiver
- 1U - Height

JG348A

See Configuration

**NOTE:** 4,5

### PDU Cable NA/MX/TW/JP

- C15 PDU Jumper Cord (NA/MX/TW/JP)

JG348A#B2B

### PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

JG348A#B2C

### HP 1910-8G-PoE+ (65W) Switch

- 8 RJ-45 auto-negotiating 10/100/1000 ports
- 1 SFP 1000 Mbps port
- min=0 \ max=1 SFP Transceiver
- 1U - Height

JG349A

See Configuration

**NOTE:** 4,5

### PDU Cable NA/MX/TW/JP

- C15 PDU Jumper Cord (NA/MX/TW/JP)

JG349A#B2B

### PDU Cable ROW

JG349A#B2C

## Configuration

- C15 PDU Jumper Cord (ROW)

### HP 1910-8G-PoE+ (180W) Switch

- 8 RJ-45 auto-negotiating 10/100/1000 ports
- 1 SFP 1000 Mbps port
- min=0 \ max=1 SFP Transceiver
- 1U - Height

JG350A  
See Configuration  
**NOTE:**4,5

### PDU Cable NA/MX/TW/JP

- C15 PDU Jumper Cord (NA/MX/TW/JP)

JG350A#B2B

### PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

JG350A#B2C

### HP 1910-16G Switch

- 16 RJ-45 auto-negotiating 10/100/1000 ports
- 4 SFP 1000 Mbps port
- min=0 \ max=4 SFP Transceivers
- 1U - Height

JE005A  
See Configuration  
**NOTE:**1, 5

### PDU Cable NA/MX/TW/JP

- C15 PDU Jumper Cord (NA/MX/TW/JP)

JE005A#B2B

### PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

JE005A#B2C

### HP 1910-24G-PoE(170W) Switch

- 24 RJ-45 auto-negotiating 10/100/1000 ports
- 4 SFP 1000 Mbps ports
- min=0 \ max=4 SFP Transceivers
- 1U - Height

JE008A  
See Configuration  
**NOTE:**1, 5

### PDU Cable NA/MX/TW/JP

- C15 PDU Jumper Cord (NA/MX/TW/JP)

JE008A#B2B

### PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

JE008A#B2C

## Configuration

### HP 1910-24G-PoE (365W) Switch

- 24 RJ-45 auto-negotiating 10/100/1000 ports
- 4 SFP 1000 Mbps ports
- min=0 \ max=4 SFP Transceivers
- 1U - Height

JE007A  
See Configuration  
**NOTE:**1, 5

### PDU Cable NA/MX/TW/JP

- C15 PDU Jumper Cord (NA/MX/TW/JP)

JE007A#B2B

### PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

JE007A#B2C

### HP 1910-24G Switch

- 24 RJ-45 auto-negotiating 10/100/1000 ports
- 4 SFP 1000 Mbps ports
- min=0 \ max=4 SFP Transceivers
- 1U - Height

JE006A  
See Configuration  
**NOTE:**1, 5

### PDU Cable NA/MX/TW/JP

- C15 PDU Jumper Cord (NA/MX/TW/JP)

JE006A#B2B

### PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

JE006A#B2C

### HP 1910-24 Switch

- 24 RJ-45 autosensing 10/100 ports
- 2 SFP dual-personality 1000 Mbps ports
- min=0 \ max=2 SFP Transceivers
- 1U - Height

JG538A  
See Configuration  
**NOTE:**2,3

### HP 1910-24-PoE+ Switch

- 24 RJ-45 auto-negotiating 10/100 ports
- 2 SFP dual-personality 1000 Mbps ports
- min=0 \ max=2 SFP Transceivers
- 1U - Height

JG539A  
See Configuration  
**NOTE:**2,3

### HP 1910-48G Switch

- 48 RJ-45 auto-negotiating 10/100/1000 ports

JE009A  
See Configuration



## Configuration

- 4 SFP 1000 Mbps ports
- min=0 \ max=4 SFP Transceivers
- 1U - Height

**NOTE:** 1, 5

PDU Cable NA/MX/TW/JP

JE009A#B2B

- C15 PDU Jumper Cord (NA/MX/TW/JP)

PDU Cable ROW

JE009A#B2C

- C15 PDU Jumper Cord (ROW)

HP 1910-48 Switch

JG540A

- 48 RJ-45 autosensing 10/100 ports
- 2 RJ-45 autosensing 10/100/1000 ports
- 2 SFP 1000 Mbps ports
- min=0 \ max=2 SFP Transceivers
- 1U - Height

See Configuration

**NOTE:** 2,3

Configuration Rules:

Note 1	The following Transceivers install into this switch:	
	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 X125 1G SFP RJ45 T Transceiver	JD089A
	HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
	HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
	HP X125 1G SFP LC LH70 Transceiver	JD063B
	HP X120 1G SFP LC BX 10-U Transceiver	JD098B
	HP X120 1G SFP LC BX 10-D Transceiver	JD099B

Note 2                      Localization required. (See Localization Menu for list.)

Note 3	The following Transceivers install into this switch:	
	HP X121 1G SFP LC SX Transceiver	J4858C
	HP X121 1G SFP LC LX Transceiver	J4859C
	HP X120 1G SFP LC LX Transceiver	JD119B

Note 4	The following Transceivers install into this switch:	
	HP X121 1G SFP LC SX Transceiver	J4858C
	HP X121 1G SFP LC LX Transceiver	J4859C
	HP X121 1G SFP RJ45 T Transceiver	J8177C

## Configuration

HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HP X125 1G SFP LC LH70 Transceiver	JD063B

Note 5 Localization (Wall Power Cord) required on orders without #B2B or #B2C (PDU Power Cord). (See Localization Menu)

## Internal or External Power Supplies(Model Dependant)

Internal Power supplies Included

### External Redundant Power Supplies

HP RPS1600 Redundant Power System

- Height = 1U
- includes 1 x c13, 1600w and Power Supply port

JG136A  
See Configuration  
**NOTE:2,3,4**

HP RPS1600 1600W AC Power Supply

- Installs into JG136A only

JG137A  
See Configuration  
**NOTE:1,3**

Configuration Rules:

Note 1 If this power supply is selected, The JG136A - HP A-RPS1600 Redundant Power System must be on order or onsite.

Note 2 Localization required.

Note 3 Each switch will only support 1 JG136A and 1 JG137A Power supply systems.

Note 4 This power supply only supported on switch JE007A.

### Options for the HP 1600 External RPS Power Supply

HP X290 1000 A JD5 2m RPS Cable

JD187A  
See Configuration  
**NOTE:1**

Remark: These cables are used to connect the External Power System to Switch.

Configuration Rules:

## Configuration

Note 1 This Cable is only supported on switch JE007A when used with the RPS 1600 (JG136A)

## Transceivers

### SFP 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
HP X120 1G SFP LC BX 10-U Transceiver	JD098B
HP X120 1G SFP LC BX 10-D Transceiver	JD099B
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HP X125 1G SFP LC LH70 Transceiver	JD063B

## Cables

### Multi-Mode Cables

HP LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic 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

## Technical Specifications

### HP 1910-48G 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 1 RJ-45 console port to access limited CLI port Supports a maximum of 48 autosensing 10/100/1000 ports plus 4 1000BASE-X SFP ports, or a combination 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>	<table border="0"> <tr> <td style="vertical-align: top;"><b>Dimensions</b></td> <td>17.4(w) x 10.24(d) x 1.7(h) in (44.2 x 26.01 x 4.32 cm) (1U height)</td> </tr> <tr> <td style="vertical-align: top;"><b>Weight</b></td> <td>6.8 lb (3.08 kg)</td> </tr> </table>	<b>Dimensions</b>	17.4(w) x 10.24(d) x 1.7(h) in (44.2 x 26.01 x 4.32 cm) (1U height)	<b>Weight</b>	6.8 lb (3.08 kg)								
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<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)												
<b>Performance</b>	<table border="0"> <tr> <td style="vertical-align: top;"><b>100 Mb Latency</b></td> <td>&lt; 5 <math>\mu</math>s</td> </tr> <tr> <td style="vertical-align: top;"><b>1000 Mb Latency</b></td> <td>&lt; 5 <math>\mu</math>s</td> </tr> <tr> <td style="vertical-align: top;"><b>Throughput</b></td> <td>up to 77.4 Mpps (64-byte packets)</td> </tr> <tr> <td style="vertical-align: top;"><b>Routing/Switching capacity</b></td> <td>104 Gbps</td> </tr> <tr> <td style="vertical-align: top;"><b>Routing table size</b></td> <td>32 entries (IPv4), 32 entries (IPv6)</td> </tr> <tr> <td style="vertical-align: top;"><b>MAC address table size</b></td> <td>8192 entries</td> </tr> </table>	<b>100 Mb Latency</b>	< 5 $\mu$ s	<b>1000 Mb Latency</b>	< 5 $\mu$ s	<b>Throughput</b>	up to 77.4 Mpps (64-byte packets)	<b>Routing/Switching capacity</b>	104 Gbps	<b>Routing table size</b>	32 entries (IPv4), 32 entries (IPv6)	<b>MAC address table size</b>	8192 entries
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<b>Electrical characteristics</b>	<table border="0"> <tr> <td style="vertical-align: top;"><b>Frequency</b></td> <td>50/60 Hz</td> </tr> <tr> <td style="vertical-align: top;"><b>Voltage</b></td> <td>100-240 VAC</td> </tr> <tr> <td style="vertical-align: top;"><b>Maximum power rating</b></td> <td>59.8 W</td> </tr> <tr> <td style="vertical-align: top;"><b>Notes</b></td> <td>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.</td> </tr> </table>	<b>Frequency</b>	50/60 Hz	<b>Voltage</b>	100-240 VAC	<b>Maximum power rating</b>	59.8 W	<b>Notes</b>	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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<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>	SFP ports and copper ports work simultaneously, independent of each other to give a total of 52												

## Technical Specifications

Gigabit-capable ports.

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office

### HP 1910-24G-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 1 RJ-45 console port to access limited CLI port 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>	17.4(w) x 16.54(d) x 1.7(h) in (44.2 x 42.01 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 and enclosure</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>	up to 41.7 Mpps (64-byte packets)
	<b>Routing/Switching capacity</b>	56 Gbps
	<b>Routing table size</b>	32 entries (IPv4), 32 entries (IPv6)
	<b>MAC address table size</b>	8192 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>Frequency</b>	50 / 60 Hz
	<b>Voltage</b>	100-240 VAC
	<b>Maximum power rating</b>	523 W
	<b>PoE power</b>	365 W
	<b>Notes</b>	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).
<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	

## Technical Specifications

<b>Management</b>	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
<b>Notes</b>	SFP ports and copper ports can work simultaneously, independent of each other to give a total of 28 Gigabit-capable ports.
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HP 1910-24G-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 1 RJ-45 console port to access limited CLI port Supports a maximum of 24 autosensing 10/100/1000 ports plus 4 1000BASE-X SFP ports, or a combination												
<b>Physical characteristics</b>	<table> <tr> <td><b>Dimensions</b></td> <td>17.4(w) x 16.54(d) x 1.7(h) in (44.2 x 42.01 x 4.32 cm) (1U height)</td> </tr> <tr> <td><b>Weight</b></td> <td>6.8 lb (3.08 kg)</td> </tr> </table>	<b>Dimensions</b>	17.4(w) x 16.54(d) x 1.7(h) in (44.2 x 42.01 x 4.32 cm) (1U height)	<b>Weight</b>	6.8 lb (3.08 kg)								
<b>Dimensions</b>	17.4(w) x 16.54(d) x 1.7(h) in (44.2 x 42.01 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 and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)												
<b>Performance</b>	<table> <tr> <td><b>100 Mb Latency</b></td> <td>&lt; 5 <math>\mu</math>s</td> </tr> <tr> <td><b>1000 Mb Latency</b></td> <td>&lt; 5 <math>\mu</math>s</td> </tr> <tr> <td><b>Throughput</b></td> <td>up to 41.7 Mpps (64-byte packets)</td> </tr> <tr> <td><b>Routing/Switching capacity</b></td> <td>56 Gbps</td> </tr> <tr> <td><b>Routing table size</b></td> <td>32 entries (IPv4), 32 entries (IPv6)</td> </tr> <tr> <td><b>MAC address table size</b></td> <td>8192 entries</td> </tr> </table>	<b>100 Mb Latency</b>	< 5 $\mu$ s	<b>1000 Mb Latency</b>	< 5 $\mu$ s	<b>Throughput</b>	up to 41.7 Mpps (64-byte packets)	<b>Routing/Switching capacity</b>	56 Gbps	<b>Routing table size</b>	32 entries (IPv4), 32 entries (IPv6)	<b>MAC address table size</b>	8192 entries
<b>100 Mb Latency</b>	< 5 $\mu$ s												
<b>1000 Mb Latency</b>	< 5 $\mu$ s												
<b>Throughput</b>	up to 41.7 Mpps (64-byte packets)												
<b>Routing/Switching capacity</b>	56 Gbps												
<b>Routing table size</b>	32 entries (IPv4), 32 entries (IPv6)												
<b>MAC address table size</b>	8192 entries												
<b>Environment</b>	<table> <tr> <td><b>Operating temperature</b></td> <td>32°F to 113°F (0°C to 45°C)</td> </tr> <tr> <td><b>Operating relative humidity</b></td> <td>10% to 90%, non-condensing</td> </tr> <tr> <td><b>Non-operating/Storage temperature</b></td> <td>-40°F to 158°F (-40°C to 70°C)</td> </tr> <tr> <td><b>Non-operating/Storage relative humidity</b></td> <td>10% to 95%, non-condensing</td> </tr> </table>	<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>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>	<table> <tr> <td><b>Frequency</b></td> <td>50 / 60 Hz</td> </tr> <tr> <td><b>Voltage</b></td> <td>100-240 VAC</td> </tr> <tr> <td><b>Maximum power rating</b></td> <td>255 W</td> </tr> <tr> <td><b>PoE power</b></td> <td>170 W</td> </tr> <tr> <td><b>Notes</b></td> <td>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.</td> </tr> </table>	<b>Frequency</b>	50 / 60 Hz	<b>Voltage</b>	100-240 VAC	<b>Maximum power rating</b>	255 W	<b>PoE power</b>	170 W	<b>Notes</b>	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.		
<b>Frequency</b>	50 / 60 Hz												
<b>Voltage</b>	100-240 VAC												
<b>Maximum power rating</b>	255 W												
<b>PoE power</b>	170 W												
<b>Notes</b>	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.												
<b>Safety</b>	UL 60950; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1-03												

## Technical Specifications

<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>	SFP ports and copper ports can work simultaneously, independent of each other to give a total of 28 Gigabit-capable ports.
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HP 1910-24G 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 1 RJ-45 console port to access limited CLI port 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>	17.4(w) x 6.3(d) x 1.7(h) in (44.2 x 16 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 and enclosure</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>	up to 41.7 million pps
	<b>Routing/Switching capacity</b>	56 Gbps
	<b>Routing table size</b>	32 entries
	<b>MAC address table size</b>	8192 entries
	<b>Environment</b>	<b>Operating temperature</b>
<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>Frequency</b>	50/60 Hz
	<b>Voltage</b>	100-240 VAC
	<b>Maximum power rating</b>	31.5 W
	<b>Notes</b>	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
<b>Safety</b>	UL 60950; 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,	

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	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>	SFP ports and copper ports can work simultaneously, independent of each other to give a total of 28 Gigabit-capable ports.
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HP 1910-16G 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 1 RJ-45 console port to access limited CLI port 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>	17.4(w) x 6.3(d) x 1.7(h) in (44.2 x 16 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 and enclosure</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>	up to 29.8 million pps
	<b>Routing/Switching capacity</b>	40 Gbps
	<b>Routing table size</b>	32 entries
	<b>MAC address table size</b>	8192 entries
	<b>Environment</b>	<b>Operating temperature</b>
<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>Frequency</b>	50 / 60 Hz
	<b>Voltage</b>	100-240 VAC
	<b>Maximum power rating</b>	25.1 W
	<b>Notes</b>	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
<b>Safety</b>	UL 60950; 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	



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<b>Management</b>	IMC - Intelligent Management Center; limited command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	
<b>Notes</b>	SFP ports and copper ports can work simultaneously, independent of each other to give a total of 20 Gigabit-capable ports.	
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office	
<b>HP 1910-8G Switch (JG348A)</b>		
<b>Ports</b>	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) 1 SFP 1000 Mbps port 1 RJ-45 console port to access limited CLI port Supports a maximum of 8 autosensing 10/100/1000 ports plus 1 1000BASE-X SFP ports, or a combination	
<b>Physical characteristics</b>	<b>Dimensions</b>	8.27(w) x 8.27(d) x 1.72(h) in (21 x 21 x 4.36 cm) (1U height)
	<b>Weight</b>	4.41 lb (2 kg), Fully loaded
<b>Memory and processor</b>	<b>Module</b>	ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB
<b>Mounting and enclosure</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>	up to 13.4 million pps
	<b>Routing/Switching capacity</b>	18 Gbps
	<b>Routing table size</b>	32 entries
	<b>MAC address table size</b>	8192 entries
	<b>Environment</b>	<b>Operating temperature</b>
<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>Maximum power rating</b>	14.4 W
	<b>Frequency</b>	50/60 Hz
	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	
<b>Safety</b>	UL 60950; 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>	SFP port and copper ports work simultaneously, independent of each other to give a total of 9 Gigabit-	

## Technical Specifications

capable ports.

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office

### HP 1910-8G-PoE+ (65W) Switch (JG349A)

<b>Ports</b>	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) 1 SFP 1000 Mbps port 1 RJ-45 console port to access limited CLI port Supports a maximum of 8 autosensing 10/100/1000 ports plus 1 1000BASE-X SFP ports, or a combination	
<b>Physical characteristics</b>	<b>Dimensions</b>	10.24(w) x 11.81(d) x 1.72(h) in (26 x 30 x 4.36 cm) (1U height)
	<b>Weight</b>	6.61 lb (3 kg), Fully loaded
<b>Memory and processor</b>	<b>Module</b>	ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB
<b>Mounting and enclosure</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>	up to 13.4 million pps
	<b>Routing/Switching capacity</b>	18 Gbps
	<b>Routing table size</b>	32 entries
	<b>MAC address table size</b>	8192 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>Maximum power rating</b>	93 W
	<b>PoE power</b>	65 W
	<b>Frequency</b>	50/60 Hz
	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.	
<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	

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<b>Notes</b>	SFP port and copper ports work simultaneously, independent of each other to give a total of 9 Gigabit-capable ports.
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HP 1910-8G-PoE+ (180W) Switch (JG350A)

<b>Ports</b>	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) 1 SFP 1000 Mbps port 1 RJ-45 console port to access limited CLI port Supports a maximum of 8 autosensing 10/100/1000 ports plus 1 1000BASE-X SFP ports, or a combination												
<b>Physical characteristics</b>	<table> <tr> <td><b>Dimensions</b></td> <td>10.24(w) x 11.81(d) x 1.72(h) in (26 x 30 x 4.36 cm) (1U height)</td> </tr> <tr> <td><b>Weight</b></td> <td>6.61 lb (3 kg), Fully loaded</td> </tr> </table>	<b>Dimensions</b>	10.24(w) x 11.81(d) x 1.72(h) in (26 x 30 x 4.36 cm) (1U height)	<b>Weight</b>	6.61 lb (3 kg), Fully loaded								
<b>Dimensions</b>	10.24(w) x 11.81(d) x 1.72(h) in (26 x 30 x 4.36 cm) (1U height)												
<b>Weight</b>	6.61 lb (3 kg), Fully loaded												
<b>Memory and processor</b>	<b>Module</b> ARM @ 333 MHz, 128 MB flash, 128 MB RAM; packet buffer size: 512 KB												
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)												
<b>Performance</b>	<table> <tr> <td><b>100 Mb Latency</b></td> <td>&lt; 5 <math>\mu</math>s</td> </tr> <tr> <td><b>1000 Mb Latency</b></td> <td>&lt; 5 <math>\mu</math>s</td> </tr> <tr> <td><b>Throughput</b></td> <td>up to 13.4 million pps</td> </tr> <tr> <td><b>Routing/Switching capacity</b></td> <td>18 Gbps</td> </tr> <tr> <td><b>Routing table size</b></td> <td>32 entries</td> </tr> <tr> <td><b>MAC address table size</b></td> <td>8192 entries</td> </tr> </table>	<b>100 Mb Latency</b>	< 5 $\mu$ s	<b>1000 Mb Latency</b>	< 5 $\mu$ s	<b>Throughput</b>	up to 13.4 million pps	<b>Routing/Switching capacity</b>	18 Gbps	<b>Routing table size</b>	32 entries	<b>MAC address table size</b>	8192 entries
<b>100 Mb Latency</b>	< 5 $\mu$ s												
<b>1000 Mb Latency</b>	< 5 $\mu$ s												
<b>Throughput</b>	up to 13.4 million pps												
<b>Routing/Switching capacity</b>	18 Gbps												
<b>Routing table size</b>	32 entries												
<b>MAC address table size</b>	8192 entries												
<b>Environment</b>	<table> <tr> <td><b>Operating temperature</b></td> <td>32°F to 113°F (0°C to 45°C)</td> </tr> <tr> <td><b>Operating relative humidity</b></td> <td>10% to 90%, non-condensing</td> </tr> <tr> <td><b>Non-operating/Storage temperature</b></td> <td>-40°F to 158°F (-40°C to 70°C)</td> </tr> <tr> <td><b>Non-operating/Storage relative humidity</b></td> <td>10% to 95%, non-condensing</td> </tr> </table>	<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				
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<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>	<table> <tr> <td><b>Frequency</b></td> <td>50/60 Hz</td> </tr> <tr> <td><b>Voltage</b></td> <td>100-240 VAC</td> </tr> <tr> <td><b>Maximum power rating</b></td> <td>228 W</td> </tr> <tr> <td><b>PoE power</b></td> <td>180 W</td> </tr> </table> <p>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.</p>	<b>Frequency</b>	50/60 Hz	<b>Voltage</b>	100-240 VAC	<b>Maximum power rating</b>	228 W	<b>PoE power</b>	180 W				
<b>Frequency</b>	50/60 Hz												
<b>Voltage</b>	100-240 VAC												
<b>Maximum power rating</b>	228 W												
<b>PoE power</b>	180 W												
<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;												

## Technical Specifications

	IEEE 802.3 Ethernet MIB
<b>Notes</b>	SFP port and copper ports work simultaneously, independent of each other to give a total of 9 Gigabit-capable ports.
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HP 1910-24 Switch (JG538A)

<b>Ports</b>	24 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full 2 SFP dual-personality 1000 Mbps ports (IEEE 802.3ab Type 1000BASE-T) 1 RJ-45 console port to access limited CLI port Supports a maximum of 24 autosensing 10/100 ports plus 2 1000BASE-X SFP ports, with optional module	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height)
	<b>Weight</b>	4.85 lb (2.2 kg)
<b>Memory and processor</b>	<b>Module</b>	MIPS @ 500 MHz, 32 MB flash, 128 MB RAM; packet buffer size: 512 KB
<b>Mounting and enclosure</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>	up to 6.6 Mpps (64-byte packets)
	<b>Routing/Switching capacity</b>	8.8 Gb/s
	<b>Routing table size</b>	32 entries (IPv4), 32 entries (IPv6)
	<b>MAC address table size</b>	8192 entries
<b>Environment</b>	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
	<b>Operating relative humidity</b>	10% to 90%, noncondensing
	<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%, noncondensing
<b>Electrical characteristics</b>	<b>Frequency</b>	50/60 Hz
	<b>Voltage</b>	100-240 VAC
	<b>Maximum power rating</b>	12 W
	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	
<b>Safety</b>	IEC 60950-1; EN 60950-1; UL 60950-1 2nd Edition; CSA C22.2 No. 60950-1-07 2nd Edition	
<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 1910-24G Switch (JE006A) was formerly sold as the 3Com Baseline Plus 2928 (3CRBSG2893)	

## Technical Specifications

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.

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office

### HP 1910-8 Switch (JG536A)

<b>Ports</b>	8 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full 2 SFP dual-personality 1000 Mbps ports (IEEE 802.3ab Type 1000BASE-T) 1 RJ-45 console port to access limited CLI port Supports a maximum of 8 autosensing 10/100 ports plus 2 1000BASE-X SFP ports, or a combination	
<b>Physical characteristics</b>	<b>Dimensions</b>	10.47(w) x 6.38(d) x 1.73(h) in (26.6 x 16.2 x 4.4 cm) (1U height)
	<b>Weight</b>	2.2 lb (1 kg)
<b>Memory and processor</b>	<b>Module</b>	MIPS @ 500 MHz, 32 MB flash, 128 MB RAM; packet buffer size: 512 KB
<b>Mounting and enclosure</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>	up to 4.2 Mpps (64-byte packets)
	<b>Routing/Switching capacity</b>	5.6 Gb/s
	<b>Routing table size</b>	32 entries (IPv4), 32 entries (IPv6)
	<b>MAC address table size</b>	8192 entries
<b>Environment</b>	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°C)
	<b>Operating relative humidity</b>	10% to 90%, noncondensing
	<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%, noncondensing
<b>Electrical characteristics</b>	<b>Frequency</b>	50/60 Hz
	<b>Voltage</b>	100-240 VAC
	<b>Maximum power rating</b>	8 W
	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	
<b>Safety</b>	IEC 60950-1; EN 60950-1; UL 60950-1 2nd Edition; CSA C22.2 No. 60950-1-07 2nd Edition	
<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 1910-24G Switch (JE006A) was formerly sold as the 3Com Baseline Plus 2928 (3CRBSG2893) and may ship with this product labeling.	

## Technical Specifications

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

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office

### HP 1910-48 Switch (JG540A)

<b>Ports</b>	48 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full 2 SFP 1000 Mbps ports 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 1 RJ-45 console port to access limited CLI port Supports a maximum of 48 autosensing 10/100 ports plus 2 1000BASE-X SFP ports plus 2 autosensing 10/100/1000 ports, or a combination
<b>Physical characteristics</b>	<b>Dimensions</b> 17.32(w) x 6.81(d) x 1.73(h) in (44 x 17.3 x 4.4 cm) (1U height) <b>Weight</b> 5.07 lb (2.3 kg)
<b>Memory and processor</b>	<b>Module</b> MIPS @ 500 MHz, 32 MB flash, 128 MB RAM; packet buffer size: 1.5 MB
<b>Mounting and enclosure</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> up to 13.1 Mpps (64-byte packets) <b>Routing/Switching capacity</b> 17.6 Gb/s <b>Routing table size</b> 32 entries (IPv4), 32 entries (IPv6) <b>MAC address table size</b> 8192 entries
<b>Environment</b>	<b>Operating temperature</b> 32°F to 104°F (0°C to 40°C) <b>Operating relative humidity</b> 10% to 90%, noncondensing <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%, noncondensing
<b>Electrical characteristics</b>	<b>Frequency</b> 50/60 Hz <b>Voltage</b> 100-240 VAC <b>Maximum power rating</b> 22 W Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
<b>Safety</b>	IEC 60950-1; EN 60950-1; UL 60950-1 2nd Edition; CSA C22.2 No. 60950-1-07 2nd Edition
<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;

## Technical Specifications

	IEEE 802.3 Ethernet MIB
<b>Notes</b>	The HP 1910-24G 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>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HP 1910-8-PoE+ Switch (JG537A)

<b>Ports</b>	8 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Duplex: half or full 2 SFP dual-personality 1000 Mbps ports (IEEE 802.3ab Type 1000BASE-T) 1 RJ-45 console port to access limited CLI port Supports a maximum of 8 autosensing 10/100 ports plus 2 1000BASE-X SFP ports, or a combination	
<b>Physical characteristics</b>	<b>Dimensions</b>	12.99(w) x 9.06(d) x 1.73(h) in (33 x 23 x 4.4 cm) (1U height)
	<b>Weight</b>	4.63 lb (2.1 kg)
<b>Memory and processor</b>	<b>Module</b>	MIPS @ 500 MHz, 32 MB flash, 128 MB RAM; packet buffer size: 512 KB
<b>Mounting and enclosure</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>	up to 4.2 Mpps (64-byte packets)
	<b>Routing/Switching capacity</b>	5.6 Gb/s
	<b>Routing table size</b>	32 entries (IPv4), 32 entries (IPv6)
	<b>MAC address table size</b>	8192 entries
	<b>Environment</b>	<b>Operating temperature</b>
<b>Operating relative humidity</b>		10% to 90%, noncondensing
<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%, noncondensing
<b>Electrical characteristics</b>	<b>Frequency</b>	50/60 Hz
	<b>Voltage</b>	100-240 VAC
	<b>Maximum power rating</b>	90 W
	<b>PoE power</b>	62 W
	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).	
<b>Safety</b>	IEC 60950-1; EN 60950-1; UL 60950-1 2nd Edition; CSA C22.2 No. 60950-1-07 2nd Edition	
<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,	

## Technical Specifications

	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 1910-24G 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>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HP 1910-24-PoE+ Switch (JG539A)

<b>Ports</b>	24 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Duplex: half or full 2 SFP dual-personality 1000 Mbps ports (IEEE 802.3ab Type 1000BASE-T) 1 RJ-45 console port to access limited CLI port Supports a maximum of 24 autosensing 10/100 ports plus 2 1000BASE-X SFP ports, or a combination												
<b>Physical characteristics</b>	<table> <tr> <td><b>Dimensions</b></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> </tr> <tr> <td><b>Weight</b></td> <td>7.28 lb (3.3 kg)</td> </tr> </table>	<b>Dimensions</b>	17.32(w) x 9.37(d) x 1.73(h) in (44 x 23.8 x 4.4 cm) (1U height)	<b>Weight</b>	7.28 lb (3.3 kg)								
<b>Dimensions</b>	17.32(w) x 9.37(d) x 1.73(h) in (44 x 23.8 x 4.4 cm) (1U height)												
<b>Weight</b>	7.28 lb (3.3 kg)												
<b>Memory and processor</b>	<b>Module</b> MIPS @ 500 MHz, 32 MB flash, 128 MB RAM; packet buffer size: 512 KB												
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)												
<b>Performance</b>	<table> <tr> <td><b>100 Mb Latency</b></td> <td>&lt; 5 <math>\mu</math>s</td> </tr> <tr> <td><b>1000 Mb Latency</b></td> <td>&lt; 5 <math>\mu</math>s</td> </tr> <tr> <td><b>Throughput</b></td> <td>up to 6.6 Mpps (64-byte packets)</td> </tr> <tr> <td><b>Routing/Switching capacity</b></td> <td>8.8 Gb/s</td> </tr> <tr> <td><b>Routing table size</b></td> <td>32 entries (IPv4), 32 entries (IPv6)</td> </tr> <tr> <td><b>MAC address table size</b></td> <td>8192 entries</td> </tr> </table>	<b>100 Mb Latency</b>	< 5 $\mu$ s	<b>1000 Mb Latency</b>	< 5 $\mu$ s	<b>Throughput</b>	up to 6.6 Mpps (64-byte packets)	<b>Routing/Switching capacity</b>	8.8 Gb/s	<b>Routing table size</b>	32 entries (IPv4), 32 entries (IPv6)	<b>MAC address table size</b>	8192 entries
<b>100 Mb Latency</b>	< 5 $\mu$ s												
<b>1000 Mb Latency</b>	< 5 $\mu$ s												
<b>Throughput</b>	up to 6.6 Mpps (64-byte packets)												
<b>Routing/Switching capacity</b>	8.8 Gb/s												
<b>Routing table size</b>	32 entries (IPv4), 32 entries (IPv6)												
<b>MAC address table size</b>	8192 entries												
<b>Environment</b>	<table> <tr> <td><b>Operating temperature</b></td> <td>32°F to 104°F (0°C to 40°C)</td> </tr> <tr> <td><b>Operating relative humidity</b></td> <td>10% to 90%, non-condensing</td> </tr> <tr> <td><b>Non-operating/Storage temperature</b></td> <td>-40°F to 158°F (-40°C to 70°C)</td> </tr> <tr> <td><b>Non-operating/Storage relative humidity</b></td> <td>10% to 95%, noncondensing</td> </tr> </table>	<b>Operating temperature</b>	32°F to 104°F (0°C to 40°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%, noncondensing				
<b>Operating temperature</b>	32°F to 104°F (0°C to 40°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%, noncondensing												
<b>Electrical characteristics</b>	<table> <tr> <td><b>Frequency</b></td> <td>50/60 Hz</td> </tr> <tr> <td><b>Voltage</b></td> <td>100-240 VAC</td> </tr> <tr> <td><b>Maximum power rating</b></td> <td>220 W</td> </tr> <tr> <td><b>PoE power</b></td> <td>180 W</td> </tr> </table>	<b>Frequency</b>	50/60 Hz	<b>Voltage</b>	100-240 VAC	<b>Maximum power rating</b>	220 W	<b>PoE power</b>	180 W				
<b>Frequency</b>	50/60 Hz												
<b>Voltage</b>	100-240 VAC												
<b>Maximum power rating</b>	220 W												
<b>PoE power</b>	180 W												

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).



## Technical Specifications

<b>Safety</b>	IEC 60950-1; EN 60950-1; UL 60950-1 2nd Edition; CSA C22.2 No. 60950-1-07 2nd Edition
<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 1910-24G 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>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

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### Standards and protocols Device management

(applies to all products in series) 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  
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

## Technical Specifications

### Network management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

IEEE 802.1D (STP)

### QoS/Cos

IEEE 802.1p (CoS)

### Security

IEEE 802.1X Port Based Network Access Control

Accessories

<b>HPE 1910 Switch Series accessories</b>	<b>Transceivers</b>	
	<b><u>HP X121 1G SFP LC SX Transceiver</u></b>	J4858C
	<b><u>HP X121 1G SFP LC LX Transceiver</u></b>	J4859C
	<b><u>HP X121 1G SFP RJ45 T Transceiver</u></b>	J8177C
	<b><u>HP X120 1G SFP LC SX Transceiver</u></b>	JD118B
	<b><u>HP X120 1G SFP LC LX Transceiver</u></b>	JD119B
	<b><u>HP X120 1G SFP RJ45 T Transceiver</u></b>	JD089B
	<b>Cables</b>	
	HP LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
	HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
	HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
	HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
	HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
	HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
	HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
	<b><u>HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable</u></b>	QK732A
	<b><u>HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable</u></b>	QK733A
	<b><u>HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable</u></b>	QK734A
	<b><u>HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable</u></b>	QK735A
	<b><u>HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable</u></b>	QK736A
	<b><u>HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable</u></b>	QK737A

## Accessory Product Details

**NOTE:** Details are not available for all accessories. The following specifications were available at the time of publication.

<p><b>HP X121 1G SFP LC SX Transceiver</b> (J4858C)</p>	<p><b>Ports</b></p> <p><b>Physical characteristics</b></p>	<p>1 LC 1000BASE-SX port; Duplex: full only</p> <p>Dimensions: 2.24(d) x 0.54(w) x 0.48(h) in. (5.69 x 1.37 x 1.22 cm)</p> <p>Weight: 0.04 lb. (0.02 kg)</p> <p>Transceiver form factor: SFP</p>
<p>A small form-factor pluggable (SFP) Gigabit SX transceiver that provides a full-duplex Gigabit solution up to 550 m on multimode fiber.</p>	<p><b>Environment</b></p> <p><b>Electrical characteristics</b></p>	<p>Operating temperature: 32°F to 158°F (0°C to 70°C)</p> <p>Operating relative humidity: 5% to 85%, noncondensing</p> <p>Nonoperating/Storage temperature: -40°F to 203°F (-40°C to 85°C)</p> <p>Altitude: up to 10,000 ft. (3 km)</p> <p>Power consumption typical: 0.4 W</p> <p>Power consumption maximum: 0.7 W</p>
	<p><b>Cabling</b></p>	<p>Type:</p> <ul style="list-style-type: none"> <li>62.5/125 μm or 50/125 μm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively;</li> </ul> <p>Maximum distance:</p> <ul style="list-style-type: none"> <li>2-220 m (62.5 μm core diameter, 160 MHz*km bandwidth)</li> <li>2-275 m (62.5 μm core diameter, 200 MHz*km bandwidth)</li> <li>2-500 m (50 μm core diameter, 400 MHz*km bandwidth)</li> <li>2-550 m (50 μm core diameter, 500 MHz*km bandwidth)</li> </ul> <p>Cable length: 2-550m</p> <p>Fiber type: Multi Mode</p>
	<p><b>Services</b></p>	<p>Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office</p>

<p><b>HP X121 1G SFP LC LX Transceiver</b> (J4859C)</p>	<p><b>Ports</b></p> <p><b>Physical characteristics</b></p>	<p>1 LC 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX); Duplex: full only</p> <p>Dimensions: 2.24(d) x 0.54(w) x 0.486(h) in. (5.69 x 1.37 x 1.23 cm)</p> <p>Weight: 0.04 lb. (0.02 kg)</p>
<p>HP X121 1G SFP LC LX Transceiver: An SFP format gigabit transceiver with LC connectors using LX technology.</p>	<p><b>Environment</b></p> <p><b>Cabling</b></p>	<p>Operating temperature: 32°F to 158°F (0°C to 70°C)</p> <p>Operating relative humidity: 0% to 85%, noncondensing</p> <p>Nonoperating/Storage temperature: -40°F to 212°F (-40°C to 100°C)</p> <p>Altitude: up to 10,000 ft. (3 km)</p> <p>Type:</p> <ul style="list-style-type: none"> <li>Either single mode or multimode; 62.5/125 μm or 50/125 μm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC</li> </ul>

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793-2 Type A1b or A1a, respectively; Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1;

Maximum distance:

- 2-550 m (multimode 62.5  $\mu\text{m}$  core diameter, 500 MHz\*km bandwidth)
- 2-550 m (multimode 50  $\mu\text{m}$  core diameter, 400 MHz\*km bandwidth)
- 2-550 m (multimode 50  $\mu\text{m}$  core diameter, 500 MHz\*km bandwidth)
- 2-10,000 m (single-mode fiber)

<b>Notes</b>	A mode conditioning patch cord may be needed in some multimode fiber installations. Wavelength: 1310nm Power Consumption: < 500mW Typical
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HP X121 1G SFP RJ45 T Transceiver (J8177C)

HP X121 1G SFP RJ45 T Transceiver: An SFP format gigabit transceiver with RJ45 connectors using 1000BaseT technology.

<b>Ports</b>	1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T); Duplex: full only
<b>Physical characteristics</b>	Dimensions: 2.71(d) x 0.54(w) x 0.55(h) in. (6.88 x 1.37 x 1.4 cm) Weight: 0.06 lb. (0.03 kg)
<b>Environment</b>	Operating temperature: 32°F to 158°F (0°C to 70°C); with 100 LFM airflow over the SFP module Operating relative humidity: 0% to 95% @ 75°F (25°C), noncondensing Nonoperating/Storage temperature: -40°F to 185°F (-40°C to 85°C) Nonoperating/Storage relative humidity: 0% to 95% @ 77°F (25°C), noncondensing Altitude: up to 10,000 ft. (3000 km)
<b>Cabling</b>	Cable type: 1000BASE-T: Category 5 (5E or better recommended), 100 $\Omega$ differential 4-pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;  Maximum distance: <ul style="list-style-type: none"><li>• 100 m</li></ul>
<b>Notes</b>	Power consumption is nominally 1 watt. For supported platforms and minimum software requirements to support

## Accessory Product Details

this product, see the document titled "Support for the J8177C 1000Base-T Mini-GBIC" on the "HP Mini-GBICs and SFPs" Manuals Web page.

The J8177C Gigabit copper mini-GBIC is not supported on dual-personality ports.

The J8177C is capable of 100 Mb operation. This is supported on only the HP E8200zl, E5400zl, and HP E6200-24G-mGBIC yl Switches using software version K.12.21 or later. Use the "auto-100" port setting to enable 100 Mb operation.

Important: The earlier J8177B does not support 100 Mb operation. When used in the Switch gl 20-Port 10/100/1000 Module (J4908A), the J8177C mini-GBIC can be installed in either the upper or lower mini-GBIC port, but will block access to the other port.

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office

### HP X120 1G SFP LC SX Transceiver (JD118B)

A small form-factor pluggable (SFP) Gigabit SX transceiver that provides a full-duplex Gigabit solution up to 550m on a Multimode fiber.

<b>Ports</b>	1 LC 1000BASE-SX port
<b>Connectivity</b>	<b>Connector type</b> LC
<b>Physical characteristics</b>	<b>Wavelength</b> 850 nm
	<b>Dimensions</b> 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)
	<b>Full configuration weight</b> 0.04 lb. (0.02 kg)
<b>Electrical characteristics</b>	<b>Power consumption typical</b> 0.8 W
	<b>Power consumption maximum</b> 1.0 W
<b>Cabling</b>	Maximum distance: <ul style="list-style-type: none"> <li>• FDDI Grade distance = 220m</li> <li>• OM1 = 275m</li> <li>• OM2 = 500m</li> <li>• OM3 = Not Specified by standard</li> </ul> Cable length up to 550m Fiber type Multi Mode
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

### HP X120 1G SFP LC LX Transceiver (JD119B)

A small form-factor pluggable (SFP) Gigabit

<b>Ports</b>	1 SFP 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX)
<b>Connectivity</b>	<b>Connector type</b> LC
<b>Physical characteristics</b>	<b>Wavelength</b> 1300 nm
	<b>Dimensions</b> 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)

## Accessory Product Details

LX transceiver that provides a full duplex Gigabit solution up to 550m on MMF or 10Km on SMF		<b>Full configuration weight</b>	0.04 lb. (0.02 kg)
	<b>Electrical characteristics</b>	<b>Power consumption typical</b>	0.8 W
		<b>Power consumption maximum</b>	1.0 W
	<b>Cabling</b>	Cable type: Either single mode or multimode;	
		Maximum distance: <ul style="list-style-type: none"> <li>• 550m for Multimode</li> <li>• 10km for Singlemode</li> </ul>	
		Fiber type	Both
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office		

<b>HP X120 1G SFP Ports RJ45 T Transceiver</b> (JD089B)		1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T)		
	<b>Connectivity</b>	<b>Connector type</b>	RJ-45	
	<b>Physical characteristics</b>	<b>Dimensions</b>	2.71(d) x 0.54(w) x 0.55(h) in. (6.88 x 1.37 x 1.4 cm)	
	<b>Electrical characteristics</b>	<b>Full configuration weight</b>	0.07 lb. (0.03 kg)	
		<b>Power consumption typical</b>	0.8 W	
		<b>Power consumption maximum</b>	1.0 W	
	<b>Cabling</b>	Cable type: 1000BASE-T: Category 5 (5E or better recommended), 100 Ω differential 4-pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T		
		Maximum distance: <ul style="list-style-type: none"> <li>• 100m</li> </ul>		
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office			

<b>HP 0.5 m Multimode OM3 LC/LC Optical Cable</b> (AJ833A)	<b>Cabling</b>	<b>Cable type:</b> 50/125 μm (core/cladding) diameter, multimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m
		<b>Maximum distance:</b> 10Gbps Transfer Rate (Ethernet): 300m
	<b>Notes</b>	Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 μm fiber optic cable and Ethernet assembly with LC duplex connectors on one

## Accessory Product Details

end and LC duplex connectors on other end.

- Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um
- Optical glass: Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical glass: Bandwidth: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber and designed to work in both the 850 and 1300 nm wavelength windows.
- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office

### HP 1 m Multimode OM3 Cabling LC/LC Optical Cable (AJ834A)

#### Cable type:

50/125 μm (core/cladding) diameter, multimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m

#### Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

### Notes

Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um
- Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows.



## Accessory Product Details

- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office

### HP 2 m Multimode OM3 Cabling LC/LC Optical Cable (AJ835A)

#### Cable type:

50/125  $\mu\text{m}$  (core/cladding) diameter, multimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;

#### Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

### Notes

Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125  $\mu\text{m}$  fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- Dimensions: Core diameter:  $50 \pm 3.0\mu\text{m}$  Cladding diameter:  $125 \pm 2.0\mu\text{m}$  Coating diameter:  $245 \pm 10\mu\text{m}$
- Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index 50/125 $\mu\text{m}$  multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows.
- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

### Services

Refer to the Hewlett Packard Enterprise website at

## Accessory Product Details

<http://www.hpe.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 Hewlett Packard Enterprise sales office

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### HP 5 m Multimode OM3 Cabling LC/LC Optical Cable (AJ836A)

#### Cable type:

50/125  $\mu\text{m}$  core/cladding) diameter, multimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;

#### Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

#### Notes

Cable Specs: This specification defines the detail requirements for a tight buffered duplex fiber optic multimode OM3 50/125  $\mu\text{m}$  fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- Dimensions: Core diameter:  $50 \pm 3.0\mu\text{m}$  Cladding diameter:  $125 \pm 2.0\mu\text{m}$  Coating diameter:  $245 \pm 10\mu\text{m}$
- Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows.
- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

#### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office

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### HP 15 m Multimode OM3 Cabling LC/LC Optical Cable (AJ837A)

#### Cable type:

50/125  $\mu\text{m}$  (core/cladding) diameter, multimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;

#### Maximum distance:

## Accessory Product Details

### Notes

10Gbps Transfer Rate (Ethernet): 300m

Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125  $\mu$ m fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- Dimensions: Core diameter:  $50 \pm 3.0\mu\text{m}$  Cladding diameter:  $125 \pm 2.0\mu\text{m}$  Coating diameter:  $245 \pm 10\mu\text{m}$
- Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows.
- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office

### HP 30 m Multimode OM3 LC/LC Optical Cable (AJ838A)

### Cabling

#### Cable type:

50/125  $\mu$ m (core/cladding) diameter, multimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;

#### Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

### Notes

Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125  $\mu$ m fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- Dimensions: Core diameter:  $50 \pm 3.0\mu\text{m}$  Cladding diameter:  $125 \pm 2.0\mu\text{m}$  Coating diameter:  $245 \pm 10\mu\text{m}$
- Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.

## Accessory Product Details

- CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows.
- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office

### HP 50 m Multimode OM3 LC/LC Optical Cable (AJ839A)

### Cabling

#### Cable type:

50/125  $\mu\text{m}$  (core/cladding) diameter, multimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;

#### Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

### Notes

Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- Dimensions: Core diameter: 50  $\pm$  3.0um Cladding diameter: 125  $\pm$  2.0um Coating diameter: 245  $\pm$  10um
- Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows.
- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.

## Accessory Product Details

- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office

### HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable (QK732A) Notes

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core Diameter: 50um  $\pm$ 3um, Cladding diameter: 125um  $\pm$ 2um; Coating diameter: 245  $\pm$  10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office

### HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable (QK733A) Notes

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um  $\pm$ 3um, Cladding diameter: 125um  $\pm$ 2um; Coating diameter: 245  $\pm$  10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

## Accessory Product Details

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office

### HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable (QK734A) Notes

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um  $\pm$ 3um, Cladding diameter: 125um  $\pm$ 2um; Coating diameter: 245  $\pm$  10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office

### HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable (QK735A) Notes

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um  $\pm$ 3um, Cladding diameter: 125um  $\pm$ 2um; Coating diameter: 245  $\pm$  10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.com/networking/services> for details on the service-

## Accessory Product Details

level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

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**HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable (QK736A)** **Notes**

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

**Services**

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**HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A)** **Notes**

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

**Services**

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard

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## Summary of Changes

Date	Version History	Action	Description of Change:
01-Dec-2015	From Version 14 to 15	Changed	Overview, Features and Benefits and Technical Specifications updated.
01-Dec-2014	From Version 12 to 14	Changed	Updated Warranty and support and Product Overview
25-Feb-2014	From Version 11 to 12	Changed	Internal and External Power Supplies, Transceivers, and Cables were revised.
09-Dec-2013	From Version 10 to 11	Changed	Configuration was revised.
09-Oct-2013	From Version 9 to 10	Removed	HP X124 1G SFP LC SX and HP X124 1G SFP LC LX Transceivers were removed.
11-Sep-2013	From Version 8 to 9	Added	Configuration was added.
10-Jun-2013	From Version 7 to 8	Added	OM4 cables were added.
14-May-2012	From Version 6 to 7	Changed	Features and Benefits were updated  The product description and Key Features were also updated  3 new models were added.
26-Sep-2011	From Version 4 to 6	Changed	The QuickSpecs was completely revised, including changing the title.
20-Jun-2011	From Version 2 to 4	Changed	Features and Benefits were updated  The product description and Key Features were also updated
20-Oct-2010	From Version 1 to 2	Changed	Features and Benefits were reorganized and updated Layer 3 routing  Ports, Notes, Services note and General Protocols were revised throughout Models  PremierFlex Cables were added

## Summary of Changes



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