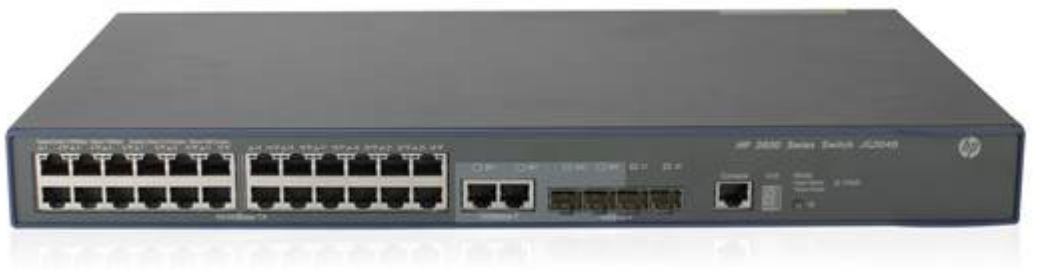
*Overview*

# HPE 3600 SI Switch Series



## Models

| | |
|---|---|
| HPE FlexNetwork 3600 24 v2 SI Switch | JG304B |
| HPE FlexNetwork 3600 48 v2 SI Switch | JG305B |
| HPE FlexNetwork 3600 24 PoE+ v2 SI Switch | JG306C |
| HPE FlexNetwork 3600 48 PoE+ v2 SI Switch | JG307C |

## Key features

- Robust switching at the enterprise network edge
- Static and routing information protocol (RIP) L3 routing
- Automatic stacking with Intelligent Resilient Fabric (IRF)
- Integrated and distributed security enforcement
- Enterprise-level non-blocking performance

## Product overview

The HPE 3600 SI Switch Series delivers intelligent, resilient performance while providing security and reliability for robust switching at the enterprise network edge. The series consists of Fast Ethernet and PoE/PoE+ switches, with features that can accommodate large enterprise and SMB applications. The switches deliver secure, resilient connectivity as well as the latest traffic-prioritization technologies to enhance converged networks. And they are designed for improved flexibility and scalability.

## Features and benefits

Quality of Service (QoS)

- Broadcast control
  allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic
- Advanced classifier-based QoS

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classifies traffic using multiple match criteria based on Layer 2, 3, and 4 information; applies QoS policies such as setting priority level and rate limit to selected traffic on a per-port or per-VLAN basis

- Powerful QoS feature
  supports the following congestion actions: strict priority (SP) queuing, weighted round robin (WRR), weighted fair queuing (WFQ), and WRED
- Traffic policing
  supports Committed Access Rate (CAR) and line rate

Management

- Friendly port names
  allows assignment of descriptive names to ports
- Remote configuration and management
  enables configuration and management through a secure Web browser or a CLI located on a remote device
- Manager and operator privilege levels
  provides read-only (operator) and read/write (manager) access on CLI and Web browser management interfaces
- Command authorization
  leverages HWTACACS to link a custom list of CLI commands to an individual network administrator's login; also provides an audit trail
- Secure Web GUI
  provides a secure, easy-to-use graphical interface for configuring the module via HTTPS
- Multiple configuration files
  stores easily to the flash image
- Complete session logging
  provides detailed information for problem identification and resolution
- SNMPv1, v2c, and v3
  facilitate centralized discovery, monitoring, and secure management of networking devices
- Remote monitoring (RMON)
  uses standard SNMP to monitor essential network functions; supports events, alarm, history, and statistics group plus a private alarm extension group
- Local and remote intelligent mirroring
  mirrors traffic from a switch port to a remote switch port anywhere on the network; or mirrors traffic selected by an access control list(ACL) to a local switch port
- Management VLAN
  segments traffic to and from management interfaces, including CLI/Telnet, a Web browser interface, and SNMP
- 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
- Device link detection protocol
  monitors the cable between two switches and shuts down the ports on both ends if the cable is broken, helping prevent network problems such as loops
- sFlow (RFC 3176)
  provides scalable ASIC-based wirespeed network monitoring and accounting with no impact on network performance; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes
- IPv6 management
  future-proofs networking, as the switch is capable of being managed whether the attached network is running IPv4 or IPv6; supports pingv6, tracertv6, Telnetv6, TFTPv6, DNSv6, syslogv6, FTPv6,

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SNMPv6, dynamic host configuration protocol (DHCP) v6, and RADIUS for IPv6

- Troubleshooting
  enables network problem solving, using ingress and egress port monitoring; provides visibility into cable problems, using virtual cable tests

Connectivity

- IPv6
  - Telnet
    for allowing CLI access via IPv6
  - SNMP
    for IPv6 switch management
  - DNS
    for IPv6 host management
  - DHCP
    for auto IPv6 address configuration of a switch

- Auto-MDIX
  provides automatic adjustments for straight-through or crossover cables on all 10/100 and 10/100/1000 ports
- Jumbo packet support
  supports up to 9216-byte frame size to improve the performance of large data transfers
- Gigabit Ethernet uplinks
  are dual-personality ports for either 10/100/1000 or mini-GBIC SFP connectivity for increased connectivity flexibility
- High-density access
  provides up to 48 fixed 10/100BASE-T PoE or non-PoE ports in an L2 or L3 switch
- Ethernet operations, administration and maintenance (OAM)
  detects data link layer problems that occurred in the "last mile" using the IEEE 802.3ah OAM standard; monitors the status of the link between two devices
- IEEE 802.3af Power over Ethernet (PoE)
  provides up to 15.4 W per port to IEEE 802.3af-compliant PoE-powered devices such as IP phones, wireless access points, and security cameras
- IEEE 802.3at Power over Ethernet (PoE+)
  provides up to 30 W per port that 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

Performance

- Nonblocking performance
  enables wire-speed switching with up to 13.1 million pps throughput, using up to 17.6 Gb/s non-blocking switching fabric
- Gigabit Ethernet interface
  provides a connection to the network that eliminates the network as a bottleneck
- Hardware-based wirespeed access control lists
  feature-rich ACL implementation helps ensure high levels of security and ease of administration without impacting network performance

Resiliency and high availability

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- Separate data and control paths
  separates control from services and keeps service processing isolated; increases security and performance
- External redundant power supply
  provides high reliability
- Smart link
  allows 50 ms failover between links
- Spanning Tree/MSTP, RSTP
  provides redundant links while preventing network loops
- Intelligent Resilient Fabric (IRF)
  creates virtual resilient switching fabrics, where two or more switches perform as a single L2 switch and L3 router; switches do not have to be co-located and can be part of a disaster-recovery system; servers or switches can be attached using standard LACP for automatic load balancing and high availability; can eliminate the need for complex protocols like Spanning Tree Protocol, Equal-Cost Multipath (ECMP), or VRRP, thereby simplifying network operation
- IEEE 802.3ad LACP
  supports up to 24 trunks, each with 8 links per trunk; and provides support for static or dynamic groups
- Virtual Router Redundancy Protocol (VRRP)
  allows groups of two routers to dynamically back each other up to create highly available routed environments in IPv4 and IPv6 networks
- IRF capability
  provides single IP address management for a resilient virtual switching fabric of up to nine switches
- Ring Resiliency Protection Protocol (RRPP)
  provides standard sub 50 ms recovery for ring Ethernet-based topology

Manageability

- RMON (remote monitoring)
  provides advanced monitoring and reporting capabilities for statistics, history, alarms, and events

Layer 2 switching

- 16/32K MAC address table
  provides access to many L2 devices
- VLAN support and tagging
  supports IEEE 802.1Q with 4,094 simultaneous VLAN IDs
- GARP VLAN Registration Protocol
  allows automatic learning and dynamic assignment of VLANs
- IEEE 802.1ad QinQ and selective QinQ
  increase the scalability of an Ethernet network by providing a hierarchical structure; connect multiple LANs on a high-speed campus or metro network
- Gigabit Ethernet port aggregation
  allows grouping of ports to increase overall data throughput to a remote device
- Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) protocol snooping
  controls and manages the flooding of multicast packets in a Layer 2 network

Layer 3 services

- Address Resolution Protocol (ARP)
  determines the MAC address of another IP host in the same subnet
- Dynamic Host Configuration Protocol (DHCP)

simplifies the management of large IP networks and supports client and server; DHCP Relay enables DHCP operation across subnets

- Loopback interface address
  defines an address in Routing Information Protocol (RIP) and Open Standard Path First (OSPF), improving diagnostic capability
- User Datagram Protocol (UDP) helper function
  allows UDP broadcasts to be directed across router interfaces to specific IP unicast or subnet broadcast addresses and prevents server spoofing for UDP services such as DHCP
- Route maps
  provide more control during route redistribution; allow filtering and altering of route metrics

Layer 3 routing

- IPv4 routing protocols
  support static routes and RIP
- IPv6 routing protocols
  provide routing of IPv6 at wire speeds; and support static routes and RIPng
- IPv6 tunneling
  allows a smooth transition from IPv4 to IPv6 by encapsulating IPv6 traffic over an existing IPv4 infrastructure
- Equal-Cost Multipath (ECMP)
  enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth
- Bidirectional forwarding detection
  enables link connectivity monitoring and reduces network convergence time for the VRRP, static routing, and IRF

Security

- ACL enablement
  provides IP L2 to L4 traffic filtering; and supports VLAN ACL and port ACL
- Multiple user authentication methods
  - IEEE 802.1X
    uses an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server to authenticate in accordance with industry standards
  - Web-based authentication
    provides a browser-based environment, similar to IEEE 802.1X, to authenticate clients that do not support the IEEE 802.1X supplicant
  - MAC-based authentication
    authenticates the client with the RADIUS server based on the client's MAC address

- Identity-driven security and access control
  - Per-user ACLs
    permits or denies user access to specific network resources, based on user identity and time of the day—allowing multiple types of users on the same network to access specific network services without risking network security or allowing unauthorized access to sensitive data
  - Automatic VLAN assignment
    assigns users automatically to the appropriate VLAN, based on their identities

- Secure management access
  delivers secure encryption of all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3

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- Secure FTP
  allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file
- Guest VLAN
  provides a browser-based environment to authenticated clients that is similar to IEEE 802.1X
- Endpoint Admission Defense (EAD)
  provides security policies to users accessing a network
- Port security
  allows access only to specified MAC addresses, which can be learned or specified by the administrator
- Port isolation
  secures and adds privacy, and prevents malicious attackers from obtaining user information
- STP BPDU port protection
  blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
- STP root guard
  protects the root bridge from malicious attacks or configuration mistakes
- DHCP protection
  blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks
- Dynamic ARP protection
  blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data
- IP Source Guard
  filters packets on a per-port basis, which prevents illegal packets from being forwarded
- RADIUS/HWTACACS
  eases switch management security administration by using a password authentication server
- Multiple customer edge
  facilitates MPLS VPN network integration with support for up to 63 VPNs

Convergence

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
  facilitates easy mapping using network management applications with LLDP automated device discovery protocol
- LLDP-MED
  is a standard extension that automatically configures network devices, including LLDP-capable IP phones
- LLDP-CDP compatibility
  receives and recognizes CDP packets from Cisco's IP phones for seamless interoperation
- PoE allocations
  supports multiple methods (automatic, IEEE 802.3af class, LLDP-MED, or user-specified) to allocate PoE power for more efficient energy savings
- Voice VLAN
  automatically assigns VLAN and priority for IP phones, simplifying network configuration and maintenance
- IP multicast snooping and data-driven IGMP
  automatically prevent flooding of IP multicast traffic
- Multicast VLAN
  allows multiple VLANs to receive the same multicast traffic, reducing network bandwidth demand by mitigating multiple streams to each VLAN

Device support

- Cisco prestandard PoE support

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detects and provides power to Cisco's prestandard PoE devices such as wireless LAN access points and IP phones

Additional information

- Green initiative support
  provides support for RoHS and WEEE regulations
- Green IT and power
  uses the latest advances in silicon development and shuts off unused ports to improve power efficiency

Warranty and support

- Limited Lifetime Warranty
  See http://www.hpe.com/networking/warrantysummary for warranty and support information included with your product purchase.
- Software releases
  to find software for your product, refer to http://www.hpe.com/networking/support; for details on the software releases available with your product purchase, refer to http://www.hpe.com/networking/warrantysummary

## 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.

| | |
|---|---|
| HPE FlexNetwork 3600 24 v2 SI Switch<br>• 24 RJ-45 autosensing 10/100 ports<br>• 2 SFP dual-personality 10/100/1000 ports<br>• 2 SFP 1000 Mbps ports<br>• min=0 \ max=4 SFP  Transceivers<br>• 1U - Height | JG304B<br>See Configuration<br>**NOTE:**1, 4, 5, 6 |
| PDU Cable NA/MEX/TW/JP<br>• C15 PDU Jumper Cord (NA/MEX/TW/JP) | JG304B#B2B |
| PDU Cable ROW<br>• C15 PDU Jumper Cord (ROW) | JG304B#B2C |
| High Volt Switch/Router to Wall Power Cord<br>• NEMA L6-20P Cord (NA/MEX/JP/TW) | JG304B#B2E |
| HPE FlexNetwork 3600 48 v2 SI Switch<br>• 48 RJ-45 autosensing 10/100 ports<br>• 2 SFP dual-personality 10/100/1000 ports<br>• 2 SFP 1000 Mbps ports<br>• min=0 \ max=4 SFP  Transceivers<br>• 1U - Height | JG305B<br>See Configuration<br>**NOTE:**1, 4, 5, 6 |
| PDU Cable NA/MEX/TW/JP<br>• C15 PDU Jumper Cord (NA/MEX/TW/JP) | JG305B#B2B |
| PDU Cable ROW<br>• C15 PDU Jumper Cord (ROW) | JG305B#B2C |
| High Volt Switch/Router to Wall Power Cord<br>• NEMA L6-20P Cord (NA/MEX/JP/TW) | JG305B#B2E |
| HPE FlexNetwork 3600 24 PoE+ v2 SI Switch<br>• 24 RJ-45 autosensing 10/100 PoE+ ports<br>• 2 SFP dual-personality 10/100/1000 ports<br>• 2 SFP 1000 Mbps ports<br>• min=0 \ max=4 SFP  Transceivers<br>• 1U - Height | JG306C<br>See Configuration<br>**NOTE:**1, 4, 5, 6 |
| PDU Cable NA/MEX/TW/JP<br>• C15 PDU Jumper Cord (NA/MEX/TW/JP) | JG306C#B2B |

*Configuration*

| | |
|---|---|
| PDU Cable ROW<br>• C15 PDU Jumper Cord (ROW) | JG306C#B2C |
| High Volt Switch/Router to Wall Power Cord<br>• NEMA L6-20P Cord (NA/MEX/JP/TW) | JG306C#B2E |
| HPE FlexNetwork 3600 48 PoE+ v2 SI Switch<br>• 48 RJ-45 autosensing 10/100 PoE+ ports<br>• 2 SFP dual-personality 10/100/1000 ports<br>• 2 SFP 1000 Mbps ports<br>• min=0 \ max=4 SFP Transceivers<br>• 1U - Height | JG307C<br>See Configuration<br>**NOTE:**1, 4, 5, 6 |
| PDU Cable NA/MEX/TW/JP<br>• C15 PDU Jumper Cord (NA/MEX/TW/JP) | JG307C#B2B |
| PDU Cable ROW<br>• C15 PDU Jumper Cord (ROW) | JG307C#B2C |
| High Volt Switch/Router to Wall Power Cord<br>• NEMA L6-20P Cord (NA/MEX/JP/TW) | JG307C#B2E |

Configuration Rules:

| | | |
|---|---|---|
| Note 1 | The following Transceivers install into this switch: | |
| | HPE X125 1G SFP LC LH40 1310nm Transceiver | JD061A |
| | HPE X120 1G SFP LC LH40 1550nm Transceiver | JD062A |
| | HPE X125 1G SFP LC LH70 Transceiver | JD063B |
| | HPE X120 1G SFP RJ45 T Transceiver | JD089B |
| | HPE X120 1G SFP LC BX 10-U Transceiver | JD098B |
| | HPE X120 1G SFP LC BX 10-D Transceiver | JD099B |
| | HPE X120 1G SFP LC SX Transceiver | JD118B |
| | HPE X120 1G SFP LC LX Transceiver | JD119B |
| Note 4 | When Switches are Not Factory Racked, Then Switch to Wall Power Cord should be the Defaulted Power Cable option on the Switches. | |
| Note 5 | Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord) or #B2E. (See Localization Menu) | |
| Note 6 | #B2E is Offered only in NA, Mexico, Taiwan and Japan. | |

Remarks:

Drop down under power supply should offer the following options and results:
Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW. (Watson Default B2B or B2C for

Rack Level CTO)
Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO)
High Volt Switch/Router/Power Supply to Wall Power Cord - #B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)

## Rack Level Integration CTO Models

Switch Chassis

| | |
|---|---|
| HPE FlexNetwork 3600 24 v2 SI Switch<br>• 24 RJ-45 autosensing 10/100 ports<br>• 2 SFP dual-personality 10/100/1000 ports<br>• 2 SFP 1000 Mbps ports<br>• min=0 \ max=4 SFP Transceivers<br>• 1U - Height | JG304B<br>See Configuration<br>**NOTE:**1, 3, 4, 5 |
| PDU Cable NA/MEX/TW/JP<br>• C15 PDU Jumper Cord (NA/MEX/TW/JP) | JG304B#B2B |
| PDU Cable ROW<br>• C15 PDU Jumper Cord (ROW) | JG304B#B2C |
| HPE FlexNetwork 3600 48 v2 SI Switch<br>• 48 RJ-45 autosensing 10/100 ports<br>• 2 SFP dual-personality 10/100/1000 ports<br>• 2 SFP 1000 Mbps ports<br>• min=0 \ max=4 SFP Transceivers<br>• 1U - Height | JG305B<br>See Configuration<br>**NOTE:**1, 3, 4, 5 |
| PDU Cable NA/MEX/TW/JP<br>• C15 PDU Jumper Cord (NA/MEX/TW/JP) | JG305B#B2B |
| PDU Cable ROW<br>• C15 PDU Jumper Cord (ROW) | JG305B#B2C |
| HPE FlexNetwork 3600 24 PoE+ v2 SI Switch<br>• 24 RJ-45 autosensing 10/100 PoE+ ports<br>• 2 SFP dual-personality 10/100/1000 ports<br>• 2 SFP 1000 Mbps ports<br>• min=0 \ max=4 SFP Transceivers<br>• 1U - Height | JG306C<br>See Configuration<br>**NOTE:**1, 3, 4, 5 |
| PDU Cable NA/MEX/TW/JP<br>• C15 PDU Jumper Cord (NA/MEX/TW/JP) | JG306C#B2B |
| PDU Cable ROW<br>• C15 PDU Jumper Cord (ROW) | JG306C#B2C |

*Configuration*

| | |
|---|---|
| HPE FlexNetwork 3600 48 PoE+ v2 SI Switch<br>• 48 RJ-45 autosensing 10/100 PoE+ ports<br>• 2 SFP dual-personality 10/100/1000 ports<br>• 2 SFP 1000 Mbps ports<br>• min=0 \ max=4 SFP Transceivers<br>• 1U - Height | JG307C<br>See Configuration<br>**NOTE:**1, 3, 4, 5 |
| PDU Cable NA/MEX/TW/JP<br>• C15 PDU Jumper Cord (NA/MEX/TW/JP) | JG307C#B2B |
| PDU Cable ROW<br>• C15 PDU Jumper Cord (ROW) | JG307C#B2C |

Configuration Rules:

| | | |
|---|---|---|
| Note 1 | The following Transceivers install into this switch: | |
| | HPE X125 1G SFP LC LH40 1310nm Transceiver | JD061A |
| | HPE X120 1G SFP LC LH40 1550nm Transceiver | JD062A |
| | HPE X125 1G SFP LC LH70 Transceiver | JD063B |
| | HPE X120 1G SFP RJ45 T Transceiver | JD089B |
| | HPE X120 1G SFP LC BX 10-U Transceiver | JD098B |
| | HPE X120 1G SFP LC BX 10-D Transceiver | JD099B |
| | HPE X120 1G SFP LC SX Transceiver | JD118B |
| | HPE X120 1G SFP LC LX Transceiver | JD119B |
| Note 3 | When Switches are Factory Racked, Then #B2B, or #B2C should be the Defaulted Power Cable option on the Switches. | |
| Note 4 | Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord). (See Localization Menu) | |
| Note 5 | If the CTO Switch Chassis needs to be racked, Then the CTO Base Model needs to integrate (with #0D1) to the HPE Network Rack. | |

Remarks:

Drop down under power supply should offer the following options and results:
Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO)
Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO)

## Transceivers

SFP Transceivers

| | |
|---|---|
| HPE X125 1G SFP LC LH40 1310nm Transceiver | JD061A |
| HPE X120 1G SFP LC LH40 1550nm Transceiver | JD062A |
| HPE X125 1G SFP LC LH70 Transceiver | JD063B |
| HPE X120 1G SFP RJ45 T Transceiver | JD089B |
| HPE X120 1G SFP LC BX 10-U Transceiver | JD098B |
| HPE X120 1G SFP LC BX 10-D Transceiver | JD099B |
| HPE X120 1G SFP LC SX Transceiver | JD118B |
| HPE X120 1G SFP LC LX Transceiver | JD119B |

## Internal Power Supplies

Power Supplies included

## 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 |

## Switch Enclosure Options

Stacking Cable kit

| | |
|---|---|
| HPE FlexNetwork 3600 Switch SFP Stacking Kit | JD324B |

External Redundant Power Supplies

| | |
|---|---|
| HPE RPS 800 Redundant Power Supply<br>• Height = 1U<br>• includes 1 x c13, 800w | JD183A<br>See Configuration<br>**NOTE:**2 |

*Configuration*

| | |
|---|---|
| HPE RPS1600 Redundant Power System<br>• Height = 1U<br>• includes 1 x c13, 1600w and Power Supply port | JG136A<br>See Configuration **NOTE:**2 |
| HPE RPS1600 1600W AC Power Supply<br>• Installs into JG136A only | JG137A<br>See Configuration **NOTE:**1 |

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. |

Options for External/Redundant Power Supplies

| | |
|---|---|
| HPE X290 1000 A JD5 2m RPS Cable | JD187A |

HPE FlexNetwork 3600 24 v2 SI Switch (JG304B)

| | | |
|---|---|---|
| Ports | 24 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Media Type: Auto-MDIX; Duplex: half or full | |
| | 2 SFP dual-personality 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) | |
| | 2 SFP 1000 Mbps ports | |
| Additional ports and slots | 1 RJ-45 serial console port | |
| Physical characteristics | Dimensions | 17.32(w) x 10.24(d) x 1.72(h) in (43.99 x 26.01 x 4.37 cm) (1U height) |
| | Weight | 11.02 lb (5 kg) |
| Memory and processor | 256 MB SDRAM, 128 MB flash; Packet buffer size: 2 MB | |
| Mounting and enclosure | Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included) | |
| Performance | 100 Mb Latency | < 6 µs |
| | 1000 Mb Latency | < 5 µs |
| | Throughput | up to 9.5 Mpps |
| | Routing/Switching capacity | 12.8 Gbps |
| | Switch fabric speed | 27.5 Gbps |
| | Routing table size | 2048 entries (IPv4) |
| Environment | Operating temperature | 32°F to 122°F (0°C to 50°C) |
| | Operating relative humidity | 5% to 95%, noncondensing |
| | Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) |
| | Nonoperating/Storage relative humidity | 5% to 95%, noncondensing |
| | Acoustic | Low-speed fan: 39.5 dB, High-speed fan: 48.4 dB |
| Electrical characteristics | Frequency | 50/60 Hz |
| | Maximum heat dissipation | 89 BTU/hr (93.9 kJ/hr) |
| | Voltage | 100 - 240 VAC, rated |
| | Maximum power rating | 26 W |
| | Notes | Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. |
| Safety | UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11; FDA 21 CFR Subchapter J; ROHS Compliance | |

*Technical Specifications*

| | |
|---|---|
| Emissions | FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A |
| Management | IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager |
| 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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HPE FlexNetwork 3600 48 v2 SI Switch (JG305B)

| | | |
|---|---|---|
| Ports | 48 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Media Type: Auto-MDIX; Duplex: half or full | |
| | 2 SFP dual-personality 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) | |
| | 2 SFP 1000 Mbps ports | |
| Additional ports and slots | 1 RJ-45 serial console port | |
| Physical characteristics | Dimensions | 17.32(w) x 10.24(d) x 1.72(h) in (43.99 x 26.01 x 4.37 cm) (1U height) |
| | Weight | 8.82 lb (4 kg) |
| Memory and processor | 256 MB SDRAM, 128 MB flash; Packet buffer size: 4 MB | |
| Mounting and enclosure | Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included) | |
| Performance | 100 Mb Latency | < 6 µs |
| | 1000 Mb Latency | < 5 µs |
| | Throughput | up to 13.1 Mpps (64-byte packets) |
| | Routing/Switching capacity | 17.6 Gbps |
| | Switch fabric speed | 55 Gbps |
| | Routing table size | 2048 entries (IPv4) |
| Environment | Operating temperature | 32°F to 122°F (0°C to 50°C) |
| | Operating relative humidity | 5% to 95%, noncondensing |
| | Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) |
| | Nonoperating/Storage relative humidity | 5% to 95%, noncondensing |
| | Acoustic | Low-speed fan: 43.2 dB, High-speed fan: 50 dB |
| Electrical | Frequency | 50/60 Hz |

*Technical Specifications*

| | | |
|---|---|---|
| characteristics | Maximum heat dissipation | 140 BTU/hr (147.7 kJ/hr) |
| | Voltage | 100 - 240 VAC, rated |
| | Maximum power rating | 41 W |
| | Notes | Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. |
| Safety | UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11; FDA 21 CFR Subchapter J; ROHS Compliance | |
| Emissions | FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A | |
| Management | IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager | |
| 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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HPE FlexNetwork 3600 24 PoE+ v2 SI Switch (JG306C)

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|---|---|---|
| Ports | 24 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: half or full | |
| | 2 SFP dual-personality 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) | |
| | 2 SFP 1000 Mbps ports | |
| Additional ports and slots | 1 RJ-45 serial console port | |
| Physical characteristics | Dimensions | 17.32(w) x 16.54(d) x 1.72(h) in (44.0 x 42.0 x 4.36 cm) (1U height) |
| | Weight | 22.05 lb (10 kg) |
| Memory and processor | 256 MB SDRAM, 128 MB flash; Packet buffer size: 2 MB | |
| Mounting and enclosure | Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included) | |
| Performance | 100 Mb Latency | < 6 µs |
| | 1000 Mb Latency | < 5 µs |
| | Throughput | up to 9.5 Mpps (64-byte packets) |

*Technical Specifications*

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|---|---|---|
| | Routing/Switching capacity | 12.8 Gbps |
| | Switch fabric speed | 27.5 Gbps |
| | Routing table size | 2048 entries (IPv4) |
| Environment | Operating temperature | 32°F to 122°F (0°C to 50°C) |
| | Operating relative humidity | 5% to 95%, noncondensing |
| | Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) |
| | Nonoperating/Storage relative humidity | 5% to 95%, noncondensing |
| | Acoustic | Low-speed fan: 44.7 dB, High-speed fan: 53.8 dB |
| Electrical characteristics | Frequency | 50/60 Hz |
| | Maximum heat dissipation | 143 BTU/hr (150.86 kJ/hr) |
| | Voltage | 100 - 240 VAC, rated |
| | Maximum power rating | 795 W |
| | PoE power | 720 W PoE+ |
| | Notes | Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies and may be supplemented with the use of an external power supply (EPS).<br>With AC input, the maximum power consumption is 460 W; PoE/PoE+ is 370 W. With DC input, the maximum power consumption is 795 W; PoE/PoE+ is 720 W. |
| Safety | UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11; FDA 21 CFR Subchapter J; ROHS Compliance | |
| Emissions | FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A | |
| Management | IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager | |
| 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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|---|---|---|
| HPE FlexNetwork 3600 48 PoE+ v2 SI Switch (JG307C) | | |
| Ports | 48 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 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) | |
| | 2 SFP 1000 Mbps ports | |
| Additional ports and slots | 1 RJ-45 serial console port | |
| Physical characteristics | Dimensions | 17.32(w) x 16.54(d) x 1.72(h) in (43.99 x 42.01 x 4.37 cm) (1U height) |
| | Weight | 22.05 lb (10 kg) |
| Memory and processor | 256 MB SDRAM, 128 MB flash; Packet buffer size: 4 MB | |
| Mounting and enclosure | Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included) | |
| Performance | 100 Mb Latency | < 6 µs |
| | 1000 Mb Latency | < 5 µs |
| | Throughput | up to 13.1 Mpps (64-byte packets) |
| | Routing/Switching capacity | 17.6 Gbps |
| | Switch fabric speed | 55 Gbps |
| | Routing table size | 2048 entries (IPv4) |
| Environment | Operating temperature | 32°F to 122°F (0°C to 50°C) |
| | Operating relative humidity | 5% to 95%, noncondensing |
| | Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) |
| | Nonoperating/Storage relative humidity | 5% to 95%, noncondensing |
| | Acoustic | Low-speed fan: 43.5 dB, High-speed fan: 55 dB |
| Electrical characteristics | Frequency | 50/60 Hz |
| | Maximum heat dissipation | 198 BTU/hr (208.89 kJ/hr) |
| | Voltage | 100 - 240 VAC, rated |
| | Maximum power rating | 820 W |
| | PoE power | 720 W PoE+ |
| | Notes | Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies and may be supplemented with the use of an |

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| | external power supply (EPS).<br>With AC input, the maximum power consumption is 440 W; PoE/PoE+ is 320 W. With DC input, the maximum power consumption is 820 W; PoE/PoE+ is 720 W. |
| Safety | UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11; FDA 21 CFR Subchapter J; ROHS Compliance |
| Emissions | FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A |
| Management | IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager |
| 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 |

Standards and Protocols
(applies to all products in series)

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| Device management | RFC 1157 SNMPv1/v2c<br>RFC 1901-1907 SNMPv2c, SMIv2 and Revised MIB-II<br>RFC 2573 (SNMPv3 Applications)<br>RFC 2578-2580 SMIv2<br>RFC 2819 (RMON groups Alarm, Event, History and Statistics only)<br>RFC 3410 (Management Framework)<br>RFC 3416 (SNMP Protocol Operations v2)<br>RFC 3417 (SNMP Transport Mappings)<br>HTML and telnet management<br>Multiple Configuration Files<br>SNMP v3 and RMON RFC support<br>SSHv1/SSHv2 Secure Shell |
| General protocols | IEEE 802.1ad Q-in-Q<br>IEEE 802.1D MAC Bridges<br>IEEE 802.1p Priority<br>IEEE 802.1Q VLANs<br>IEEE 802.1s (MSTP)<br>IEEE 802.1v VLAN classification by Protocol and Port<br>IEEE 802.1w Rapid Reconfiguration of Spanning Tree<br>IEEE 802.1X PAE<br>IEEE 802.3 Type 10BASE-T<br>IEEE 802.3ab 1000BASE-T<br>IEEE 802.3ac (VLAN Tagging Extension)<br>IEEE 802.3ad Link Aggregation Control Protocol (LACP)<br>IEEE 802.3af Power over Ethernet<br>IEEE 802.3at Power over Ethernet Plus<br>IEEE 802.3i 10BASE-T |

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| | IEEE 802.3u 100BASE-X<br>IEEE 802.3x Flow Control<br>IEEE 802.3z 1000BASE-X<br>RFC 768 UDP<br>RFC 783 TFTP Protocol (revision 2)<br>RFC 791 IP<br>RFC 792 ICMP<br>RFC 793 TCP<br>RFC 826 ARP<br>RFC 1058 RIPv1<br>RFC 1213 Management Information Base for Network Management of TCP/IP-based internets<br>RFC 1812 IPv4 Routing<br>RFC 2131 DHCP<br>RFC 2236 IGMP Snooping<br>RFC 2338 VRRP<br>RFC 2453 RIPv2<br>RFC 2474 Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers<br>RFC 2644 Directed Broadcast Control<br>RFC 2665 Definitions of Managed Objects for the Ethernet-like Interface Types<br>RFC 2711 IPv6 Router Alert Option<br>RFC 3410 Applicability Statements for SNMP<br>RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)<br>RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)<br>RFC 3416 Protocol Operations for SNMP<br>RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP)<br>RFC 4594 Configuration Guidelines for DiffServ Service Classes |
| IPv6 | RFC 1881 IPv6 Address Allocation Management<br>RFC 1887 IPv6 Unicast Address Allocation Architecture<br>RFC 1981 IPv6 Path MTU Discovery<br>RFC 2080 RIPng for IPv6<br>RFC 2373 IPv6 Addressing Architecture<br>RFC 2375 IPv6 Multicast Address Assignments<br>RFC 2460 IPv6 Specification<br>RFC 2461 IPv6 Neighbor Discovery<br>RFC 2462 IPv6 Stateless Address Auto-configuration<br>RFC 2463 ICMPv6<br>RFC 2464 Transmission of IPv6 over Ethernet Networks<br>RFC 2475 IPv6 DiffServ Architecture<br>RFC 2711 IPv6 Router Alert Option<br>RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers<br>RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only)<br>RFC 2925 Remote Operations MIB (Ping only)<br>RFC 3056 Connection of IPv6 Domains via IPv4 Clouds<br>RFC 3162 RADIUS and IPv6<br>RFC 3306 Unicast-Prefix-based IPv6 Multicast Addresses |

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| | RFC 3307 IPv6 Multicast Address Allocation<br>RFC 3315 DHCPv6 (client and relay)<br>RFC 3484 Default Address Selection for IPv6<br>RFC 3493 Basic Socket Interface Extensions for IPv6<br>RFC 3513 IPv6 Addressing Architecture<br>RFC 3542 Advanced Sockets API for IPv6<br>RFC 3587 IPv6 Global Unicast Address Format<br>RFC 3596 DNS Extension for IPv6<br>RFC 4113 MIB for UDP<br>RFC 4291 IP Version 6 Addressing Architecture<br>RFC 4293 MIB for IP<br>RFC 4443 ICMPv6<br>RFC 4861 IPv6 Neighbor Discovery<br>RFC 4862 IPv6 Stateless Address Auto-configuration<br>RFC 5095 Deprecation of Type 0 Routing Headers in IPv6 |
| MIBs | RFC 1213 MIB II<br>RFC 1493 Bridge MIB<br>RFC 1724 RIPv2 MIB<br>RFC 1757 Remote Network Monitoring MIB<br>RFC 1907 SNMPv2 MIB<br>RFC 2233 Interface MIB<br>RFC 2571 SNMP Framework MIB<br>RFC 2572 SNMP-MPD MIB<br>RFC 2573 SNMP-Notification MIB<br>RFC 2573 SNMP-Target MIB<br>RFC 2574 SNMP USM MIB<br>RFC 2618 RADIUS Authentication Client MIB<br>RFC 2620 RADIUS Accounting Client MIB<br>RFC 2665 Ethernet-Like-MIB<br>RFC 2674 802.1p and IEEE 802.1Q Bridge MIB<br>RFC 2819 RMON MIB<br>RFC 2863 The Interfaces Group MIB<br>RFC 3414 SNMP-User based-SM MIB<br>RFC 3415 SNMP-View based-ACM MIB |
| Network management | IEEE 802.1AB Link Layer Discovery Protocol (LLDP)<br>RFC 1157 SNMPv1<br>RFC 1757 RMON 4 groups: Stats, History, Alarms and Events<br>RFC 1901 SNMPv2 Introduction<br>RFC 1902 Structure of Management Information for Version 2 of the Simple Network Management Protocol (SNMPv2)<br>RFC 1903 SNMPv2 Textual Conventions<br>RFC 1904 SNMPv2 Conformance<br>RFC 1905 SNMPv2 Protocol Operations<br>RFC 1906 SNMPv2 Transport Mappings<br>RFC 2570 SNMPv3 Overview<br>RFC 2571 An Architecture for Describing SNMP Management Frameworks<br>RFC 2572 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)<br>RFC 2573 SNMP Applications<br>RFC 2574 SNMPv3 User-based Security Model (USM) |

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| | RFC 2575 SNMPv3 View-based Access Control Model (VACM)<br>RFC 2578 Structure of Management Information Version 2 (SMIv2)<br>RFC 2579 Textual Conventions for SMIv2<br>RFC 2580 Conformance Statements for SMIv2<br>RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)<br>RFC 3410 Introduction to Version 3 of the Internet-standard Network Management Framework<br>RFC 3414 SNMPv3 User-based Security Model (USM)<br>RFC 3415 SNMPv3 View-based Access Control Model VACM)<br>ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)<br>SNMPv1/v2c/v3 |
| QoS/CoS | RFC 4594 Configuration Guidelines for DiffServ Service Classes |

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|---|---|---|
| HPE 3600 SI Switch Series accessories | Transceivers | |
| | HPE X125 1G SFP LC LH40 1310nm Transceiver | JD061A |
| | HPE X120 1G SFP LC LH40 1550nm Transceiver | JD062A |
| | HPE X125 1G SFP LC LH70 Transceiver | JD063B |
| | HPE X120 1G SFP RJ45 T Transceiver | JD089B |
| | HPE X120 1G SFP LC BX 10-U Transceiver | JD098B |
| | HPE X120 1G SFP LC BX 10-D Transceiver | JD099B |
| | HPE X120 1G SFP LC SX Transceiver | JD118B |
| | HPE X120 1G SFP LC LX Transceiver | JD119B |
| | Cables | |
| | HPE FlexNetwork 3600 Switch SFP Stacking Kit | JD324B |
| | 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 |
| | Power Supply | |
| | HPE RPS1600 Redundant Power System | JG136A |
| | HPE RPS1600 1600W AC Power Supply | JG137A |
| | Power cords | |
| | HPE X290 1000 A JD5 2m RPS Cable | JD187A |

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

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|---|---|---|---|
| HPE X125 1G SFP LC LH40 1310nm Transceiver (JD061A)<br><br>A small form-factor pluggable SFP Gigabit LH40 transceiver that provides a full duplex Gigabit solution up to 40km on a single-mode fiber. | Ports | 1 LC 1000Base-LH port (no IEEE standard exists for 1550 nm optics) | |
| | Connectivity | Connector type | LC |
| | | Wavelength | 1310 nm |
| | Physical characteristics | Dimensions | 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) |
| | | Full configuration weight | 0.04 lb. (0.02 kg) |
| | Electrical characteristics | Power consumption typical | 0.8 W |
| | | Power consumption maximum | 1.0 W |
| | Cabling | Cable type:<br>Single-mode fiber optic, complying with ITU-T G.652;<br><br>Maximum distance:<br><br>• 40km distance | |
| | | Fiber type | Single Mode |
| | 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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| HPE X120 1G SFP LC LH40 1550nm Transceiver (JD062A)<br><br>A small form-factor pluggable (SFP) Gigabit LH40 transceiver that provides a full-duplex Gigabit solution up to 40 km on a single mode fiber. | Ports | 1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics) | |
| | Connectivity | Connector type | LC |
| | | Wavelength | 1550 nm |
| | Physical characteristics | Dimensions | 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) |
| | | Full configuration weight | 0.04 lb. (0.02 kg) |
| | Electrical characteristics | Power consumption typical | 0.8 W |
| | | Power consumption maximum | 1.0 W |
| | Cabling | Cable type:<br>Single-mode fiber optic, complying with ITU-T G.652;<br><br>Maximum distance: | |

| | | | |
|---|---|---|---|
| | | • 40km distance | |
| | | Fiber type | Single Mode |
| | 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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| HPE X125 1G SFP LC LH70 Transceiver (JD063B)<br><br>A small form-factor pluggable (SFP) Gigabit LH70 transceiver that provides a full-duplex Gigabit solution up to 70km on a single-mode fiber. | Ports | 1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics) | |
| | Connectivity | Connector type | LC |
| | | Wavelength | 1550 nm |
| | Physical characteristics | Dimensions | 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) |
| | | Full configuration weight | 0.04 lb. (0.02 kg) |
| | Electrical characteristics | Power consumption typical | 0.8 W |
| | | Power consumption maximum | 1.0 W |
| | Cabling | Cable type:<br>Single-mode fiber optic, complying with ITU-T G.652;<br><br>Maximum distance:<br>70km | |
| | | Fiber type | Single Mode |
| | 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 | |

*Accessory Product Details*

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|---|---|---|---|
| HPE X120 1G SFP RJ45 T Transceiver (JD089B)<br><br>A small form factor pluggable (SFP) Gigabit 1000Base-T transceiver that provides a full duplex Gigabit solution up to 100m on a Cat-5+ cable. | Ports | 1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T) | |
| | Connectivity | Connector type | RJ-45 |
| | Physical characteristics | Dimensions | 2.71(d) x 0.54(w) x 0.55(h) in. (6.88 x 1.37 x 1.4 cm) |
| | | Full configuration weight | 0.07 lb. (0.03 kg) |
| | Electrical characteristics | Power consumption typical | 0.8 W |
| | | Power consumption maximum | 1.0 W |
| | Cabling | Cable type:<br>1000BASE-T: Category 5 (5E or better recommended), 100 Ù differential 4-pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;<br><br>Maximum distance:<br>100m | |
| | 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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| HPE X120 1G SFP LC BX 10-U Transceiver (JD098B)<br><br>A small form-factor pluggable (SFP) Gigabit LX-BX10-U transceiver that provides a full duplex Gigabit solution up to 10km on a single mode cable. | Ports | 1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-U); Duplex: full only | |
| | Connectivity | Connector type | LC |
| | Physical characteristics | Dimensions | 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) |
| | | Full configuration weight | 0.04 lb. (0.02 kg) |
| | Electrical characteristics | Power consumption typical | 0.8 W |
| | | Power consumption maximum | 1.0 W |
| | Cabling | Maximum distance:<br>10km | |
| | | Fiber type | Single Mode |
| | Notes | TX 1310nm RX 1490nm | |
| | 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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|---|---|---|---|
| HPE X120 1G SFP LC BX 10-D Transceiver (JD099B)<br><br>A small form-factor pluggable (SFP) Gigabit LX-BX10-D transceiver that provides a full duplex Gigabit solution up to 10km on a single mode cable. | Ports | 1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-D); Duplex: full only | |
| | Connectivity | Connector type | LC |
| | Physical characteristics | Dimensions | 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) |
| | | Full configuration weight | 0.04 lb. (0.02 kg) |
| | Electrical characteristics | Power consumption typical | 0.8 W |
| | | Power consumption maximum | 1.0 W |
| | Cabling | Maximum distance:<br>Up to 10km | |
| | | Fiber type | Single Mode |
| | Notes | TX 1490nm RX 1310nm | |
| | 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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| HPE X120 1G SFP LC SX Transceiver (JD118B)<br><br>A small form-factor pluggable (SFP) Gigabit SX transceiver that provides a full-duplex Gigabit solution up to 550m on a Multimode fiber. | Ports | 1 LC 1000BASE-SX port | |
| | Connectivity | Connector type | LC |
| | | Wavelength | 850 nm |
| | Physical characteristics | Dimensions | 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) |
| | | Full configuration weight | 0.04 lb. (0.02 kg) |
| | Electrical characteristics | Power consumption typical | 0.8 W |
| | | Power consumption maximum | 1.0 W |
| | Cabling | Maximum distance:<br>FDDI Grade distance = 220m<br>OM1 = 275m<br>OM2 = 500m<br>OM3 = Not Specified by standard | |
| | | Cable length | up to 550m |
| | | Fiber type | Multi Mode |

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| | 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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|---|---|---|---|
| HPE X120 1G SFP LC LX Transceiver (JD119B)<br><br>A small form-factor pluggable (SFP) Gigabig LX transceiver that provides a full duplex Gigabit solution up to 550m on MMF or 10Km on SMF | Ports | 1 SFP 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX) | |
| | Connectivity | Connector type | LC |
| | | Wavelength | 1300 nm |
| | Physical characteristics | Dimensions | 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) |
| | | Full configuration weight | 0.04 lb. (0.02 kg) |
| | Electrical characteristics | Power consumption typical | 0.8 W |
| | | Power consumption maximum | 1.0 W |
| | Cabling | Cable type:<br>Either single mode or multimode;<br><br>Maximum distance:<br>550m for Multimode<br>10km for Singlemode | |
| | | Fiber type | Both |
| | 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 | |

*Accessory Product Details*

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|---|---|---|
| HP LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable (AJ833A) | Cabling | Cable type:<br>50/125 µm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m<br><br>Maximum distance:<br>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.<br><br>• Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um<br>• Optical glass: Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.<br>• 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.<br>• 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.<br>• BULK CABLE & CABLE ASSEMBLY CONFIGURATION:<br>• Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.<br>• Jacket Color: Aqua for OM3 multimode per TIA 598<br>• Boot Color: White<br>• Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.<br>• 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.<br>• 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 |

*Accessory Product Details*

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|---|---|---|
| HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable (AJ834A) | Cabling | Cable type:<br>50/125 µm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m<br><br>Maximum distance:<br>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.<br><br>• Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um<br>• Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.<br>• 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.<br>• 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.<br>• BULK CABLE & CABLE ASSEMBLY CONFIGURATION:<br>• Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.<br>• Jacket Color: Aqua for OM3 multimode per TIA 598<br>• Boot Color: White<br>• Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.<br>• 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.<br>• 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 |

*Accessory Product Details*

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|---|---|---|
| HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable (AJ835A) | Cabling | Cable type:<br>50/125 µm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;<br><br>Maximum distance:<br>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.<br><br>• Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um<br>• Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.<br>• 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.<br>• 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.<br>• BULK CABLE & CABLE ASSEMBLY CONFIGURATION:<br>• Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.<br>• Jacket Color: Aqua for OM3 multimode per TIA 598<br>• Boot Color: White<br>• Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.<br>• 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.<br>• 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 |

*Accessory Product Details*

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|---|---|---|
| HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable (AJ836A) | Cabling | Cable type:<br>50/125 µm core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;<br><br>Maximum distance:<br>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 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.<br><br>• Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um<br>• Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.<br>• 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.<br>• 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.<br>• BULK CABLE & CABLE ASSEMBLY CONFIGURATION:<br>• Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.<br>• Jacket Color: Aqua for OM3 multimode per TIA 598<br>• Boot Color: White<br>• Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.<br>• 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.<br>• 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 |

*Accessory Product Details*

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|---|---|---|
| HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable (AJ837A) | Cabling | Cable type:<br>50/125 µm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;<br><br>Maximum distance:<br>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.<br><br>• Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um<br>• Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.<br>• 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.<br>• 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.<br>• BULK CABLE & CABLE ASSEMBLY CONFIGURATION:<br>• Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.<br>• Jacket Color: Aqua for OM3 multimode per TIA 598<br>• Boot Color: White<br>• Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.<br>• 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.<br>• 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 |

*Accessory Product Details*

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|---|---|---|
| HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable (AJ838A) | Cabling | Cable type:<br>50/125 µm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;<br><br>Maximum distance:<br>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.<br><br>• Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um<br>• Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.<br>• 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.<br>• 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.<br>• BULK CABLE & CABLE ASSEMBLY CONFIGURATION:<br>• Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.<br>• Jacket Color: Aqua for OM3 multimode per TIA 598<br>• Boot Color: White<br>• Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.<br>• 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.<br>• 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 |

*Accessory Product Details*

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| HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable (AJ839A) | Cabling | Cable type:<br>50/125 µm (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;<br><br>Maximum distance:<br>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.<br><br>• Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um<br>• Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.<br>• 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.<br>• 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.<br>• BULK CABLE & CABLE ASSEMBLY CONFIGURATION:<br>• Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic.<br>• Jacket Color: Aqua for OM3 multimode per TIA 598<br>• Boot Color: White<br>• Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.<br>• 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.<br>• 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 |

*Accessory Product Details*

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| 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.<br><br>Core Diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um<br>Bandwidth: 3000 MHz-km @ 850nm (Laser)<br>Jacket Color: Blue<br>Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic<br>Boot Color: White<br>Outer Jacket Print: HPE 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.<br>Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m<br>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 |

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| 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.<br><br>Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um<br>Bandwidth: 3000 MHz-km @ 850nm (Laser)<br>Jacket Color: Blue<br>Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic<br>Boot Color: White<br>Outer Jacket Print: HPE 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.<br>Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m<br>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 |

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| 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.<br><br>Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um<br>Bandwidth: 3000 MHz-km @ 850nm (Laser)<br>Jacket Color: Blue<br>Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic<br>Boot Color: White<br>Outer Jacket Print: HPE 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.<br>Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m<br>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 |

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| 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.<br><br>Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um<br>Bandwidth: 3000 MHz-km @ 850nm (Laser)<br>Jacket Color: Blue<br>Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic<br>Boot Color: White<br>Outer Jacket Print: HPE 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.<br>Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m<br>Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45 |

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| | 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 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.<br><br>Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um<br>Bandwidth: 3000 MHz-km @ 850nm (Laser)<br>Jacket Color: Blue<br>Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic<br>Boot Color: White<br>Outer Jacket Print: HPE 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.<br>Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m<br>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 |

*Accessory Product Details*

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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.<br><br>Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um<br>Bandwidth: 3000 MHz-km @ 850nm (Laser)<br>Jacket Color: Blue<br>Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic<br>Boot Color: White<br>Outer Jacket Print: HPE 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.<br>Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m<br>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 |

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| HPE RPS1600 Redundant Power System (JG136A) | Ports | 8 redundant power supply ports<br>Restrictions: two -56V/25A DC(PoE); six -56V/8A DC(non-PoE) | |
| | Physical characteristics | Dimensions | 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) |
| | | Weight | 14.11 lb. (6.4 kg) |
| | | Full configuration weight | 16.75 lb. (7.6 kg) |
| | Environment | Operating temperature | 14°F to 122°F (-10°C to 50°C) |
| | | Operating relative humidity | 5% to 95% |
| | | Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) |
| | | Nonoperating/Storage relative humidity | 5% to 95% |
| | | Altitude | up to 13,123 ft. (4 km) |
| | | Acoustic | Pressure: 53 dB; ISO 7779, ISO 9296 |
| | Electrical characteristics | Voltage | 100-120/200-240 VAC |
| | | Current | 30/60 A |
| | | Idle power | 38 W |
| | | Maximum power rating | 3550 W |

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| | | RPS power | 3200 W |
| | | PoE power | 2800 W |
| | | RPS | -55 V |
| | | PoE | -55 V |
| | | Frequency | 50/60 Hz |
| | | Notes | Idle power is the actual power consumption of the device with no ports connected.<br>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.<br>With one RPS1600 Power Supply, the PRS1600 Redundant Power System can provide 1600W power output; With two PRS1600 Power Supplies, the output power is 3200W. |
| | Safety | CE Labeled; UL 60950-1; IEC 60950-1; ICES-003; FCC Part 15, Subpart B; EU RoHS Compliant; EN 60950-1/A11; C-Tick; VCCI Class A; ROHS Compliance; EN 300386 | |
| | 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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| HPE RPS1600 1600W AC Power Supply (JG137A) | Physical characteristics | Dimensions | 8.19(d) x 4.96(w) x 1.63(h) in. (20.8 x 12.6 x 4.15 cm) |
| | | Weight | 3.02 lb. (1.37 kg) |
| | Environment | Operating temperature | 14°F to 122°F (-10°C to 50°C) |
| | | Operating relative humidity | 5% to 95% |
| | | Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) |
| | | Nonoperating/Storage relative humidity | 5% to 95% |
| | Electrical characteristics | Voltage | 100-120/200-240 VAC |
| | | Current | 15/30 A |
| | | Maximum power rating | 1600 W |
| | | Frequency | 50/60 Hz |
| | | Notes | Maximum power rating and maximum heat dissipation are the worst-case |

| | | |
|---|---|---|
| | | theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. |
| | 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 |

*Summary of Changes*

| Date | Version History | Action | Description of Change: |
|---|---|---|---|
| 29-Apr-2016 | From Version 18 to 19 | Changed | SKU descriptions updated on all the document |
| 01-Apr-2016 | From Version 17 to 18 | Changed | Technical Specifications updated |
| 01-Dec-2015 | From Version 16 to 17 | Changed | Overview and Technical Specifications updated |
| 20-Apr-2015 | From Version 15 to 16 | Changed | Models update from A to B/B to C<br><br>Features and Benefits and Technical Specifications were updated |
| 01-Dec-2014 | From Version 14 to 15 | Changed | Updated Warranty and support |
| 21-Apr-2014 | From Version 13 to 14 | Changed | Standards and protocols were revised. |
| 08-Apr-2014 | From Version 12 to 13 | Removed | Removed several items from the Transceivers section of Accessories. |
| 16-Jan-2014 | From Version 10 to 12 | Changed | Build to Order, Rack Level Integration, and Transceivers were revised in Configuration. |
| 10-Jun-2013 | From Version 9 to 10 | Added | OM4 cables were added. |
| 04-Dec-2012 | From Version 8 to 9 | Changed | Changes were made to Models, Features and Benefits. The model specifications had minor updates, as did the Accessories section. |
| 21-Sep-2012 | From Version 6 to 8 | Changed | One model was removed, Features and Benefits was updated, and the ports specifications for three of the remaining models was updated. |
| 31-May-2012 | From Version 5 to 6 | Changed | The dimensions for two models were revised. |
| 26-Mar-2012 | From Version 4 to 5 | Changed | The document was revised throughout, including adding some new models. |
| 07-Nov-2011 | From Version 3 to 4 | Changed | The product name was updated throughout the document. |
| 29-Sep-2011 | From Version 2 to 3 | Added | Accessory Product Details was added. |
| 16-Mar-2011 | From Version 1 to 2 | Changed | Specifications were revised. |

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