

### Overview

## HPE 3600 EI Switch Series

### Models

HPE FlexNetwork 3600 24 v2 EI Switch	JG299B
HPE FlexNetwork 3600 48 v2 EI Switch	JG300B
HPE FlexNetwork 3600 24 PoE+ v2 EI Switch	JG301C
HPE FlexNetwork 3600 48 PoE+ v2 EI Switch	JG302C
HPE FlexNetwork 3600 24 SFP v2 EI Switch	JG303B

### Key features

- Robust switching at the enterprise network edge
- Advanced L3 and multicast routing
- Intelligent Resilient Fabric (IRF)—automated stack and switching fabric setup
- Integrated and distributed security enforcement
- Enterprise-level non-blocking performance

### Product overview

The HPE 3600 EI Switch Series delivers premium levels of intelligent and resilient performance, security, and reliability for robust switching at the enterprise network edge. The series consists of L3 Fast Ethernet and PoE/PoE+ switches, with advanced features that can accommodate some of the most demanding applications.

The 3600 EI Switch Series offers secure, resilient connectivity and the latest traffic-prioritization technologies to enhance converged networks. Designed for increased flexibility and scalability, the series offers you 24 or 48 10/100 ports, four active SFP-based Gigabit Ethernet ports for stacking and uplinks, and a 24-port 100BASE-FX switch with two or four Gigabit Ethernet SFP slots.

### 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**  
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
- **RRPP**

## Overview

enables ultra high levels of network resiliency, with failover times of less than 50 ms

## Management

- **Friendly port names**  
allow 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**  
can be stored 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 or to a remote switch port anywhere on the network, or mirrors ACL-selected traffic 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)**  
advertisers 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, 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

## Overview

- **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 or 24 SFP 100BASE-X ports in an L2/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+) support**  
simplifies deployment and dramatically reduces installation costs by helping to eliminate the time and cost involved in supplying local power at each access point location

## 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 wire-speed 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

- **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 protocol (STP)/multiple STP (MSTP)/rapid STP (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

## Overview

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 Link Aggregation Control Protocol (LACP)**

supports up to 24 trunks, each with 8 links per trunk; 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

## 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**

support 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

## Overview

### Layer 3 routing

- **IPv4 routing protocols**  
support static routes, RIP, OSPF, ISIS, and BGP
- **IPv6 routing protocols**  
provide routing of IPv6 at wire speeds; support static routes, RIPng, OSPFv3, ISIS for IPv6, and BGP4+ for IPv6
- **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 (BFD)**  
enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP, IS-IS, VRRP, and IRF
- **Protocol-independent multicast (PIM)-source specific multicast (SSM), PIM-dense mode (DM), and PIM-sparse mode (SM) (for IPv4 and IPv6)**  
support IP Multicast address management and inhibition of DoS attacks
- **Multicast Source Discovery Protocol (MSDP)**  
is used for inter-domain multicast applications, allowing multiple PIM-SM domains to interoperate
- **IGMPv1, v2, and v3**  
allow individual hosts to be registered on a particular VLAN

### Security

- **ACL enablement**  
provides IP L2 to L4 traffic filtering; 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**  
automatically assigns users 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
- **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

## Overview

- **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
- **ICMP throttling**  
defeats ICMP denial-of-service attacks by enabling any switch port to automatically throttle ICMP traffic

## 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**  
support 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 eliminating multiple streams to each VLAN
- **PIM**  
supports PIM-DM and PIM-SM; is used for multicast applications
- **Multicast Source Discovery Protocol (MSDP)**  
allows multiple PIM-SM domains to interoperate; is used for inter-domain multicast applications

## Device support

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

## Overview

### 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>

## 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.

HPE FlexNetwork 3600 24 v2 EI Switch	JG299B
<ul style="list-style-type: none"> <li>24 RJ-45 autosensing 10/100 ports</li> <li>2 dual-personality 10/100/1000 ports/ SFP 1000 Mbps ports</li> <li>4 SFP 1000 Mbps ports</li> <li>min=0 \ max=4 SFP 1000 Transceivers</li> <li>1U - Height</li> </ul>	See Configuration <b>NOTE:</b> 1, 4, 5, 6
PDU Cable NA/MEX/TW/JP	JG299B#B2B
<ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	JG299B#B2C
<ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch/Router to Wall Power Cord	JG299B#B2E
<ul style="list-style-type: none"> <li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>	
HPE FlexNetwork 3600 48 v2 EI Switch	JG300B
<ul style="list-style-type: none"> <li>48 RJ-45 autosensing 10/100 ports</li> <li>2 dual-personality 10/100/1000 ports/ SFP 1000 Mbps ports</li> <li>4 SFP 1000 Mbps ports</li> <li>min=0 \ max=4 SFP 1000 Transceivers</li> <li>1U - Height</li> </ul>	See Configuration <b>NOTE:</b> 1, 4, 5, 6
PDU Cable NA/MEX/TW/JP	JG300B#B2B
<ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	JG300B#B2C
<ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch/Router to Wall Power Cord	JG300B#B2E
<ul style="list-style-type: none"> <li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>	
HPE FlexNetwork 3600 24 PoE+ v2 EI Switch	JG301C
<ul style="list-style-type: none"> <li>24 RJ-45 autosensing 10/100 PoE+ ports</li> <li>2 dual-personality 10/100/1000 ports/ SFP 1000 Mbps ports</li> <li>4 SFP 1000 Mbps ports</li> <li>min=0 \ max=4 SFP 1000 Transceivers</li> <li>1U - Height</li> </ul>	See Configuration <b>NOTE:</b> 1, 4, 5, 6
PDU Cable NA/MEX/TW/JP	JG301C#B2B

## Configuration

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

PDU Cable ROW

JG301C#B2C

- C15 PDU Jumper Cord (ROW)

High Volt Switch/Router to Wall Power Cord

JG301C#B2E

- NEMA L6-20P Cord (NA/MEX/JP/TW)

HPE FlexNetwork 3600 48 PoE+ v2 EI Switch

JG302C

- 48 RJ-45 autosensing 10/100 PoE+ ports
- 2 dual-personality 10/100/1000 ports/ SFP 1000 Mbps ports
- 4 SFP 1000 Mbps ports
- min=0 \ max=4 SFP 1000 Transceivers
- 1U - Height

See Configuration  
**NOTE:**1, 4, 5, 6

PDU Cable NA/MEX/TW/JP

JG302C#B2B

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

PDU Cable ROW

JG302C#B2C

- C15 PDU Jumper Cord (ROW)

High Volt Switch/Router to Wall Power Cord

JG302C#B2E

- NEMA L6-20P Cord (NA/MEX/JP/TW)

HPE FlexNetwork 3600 24 SFP v2 EI Switch

JG303B

- 24 SFP 100 Mbps ports
- min=0 \ max=24 SFP 100 Transceivers
- 2 dual-personality 10/100/1000 ports/ SFP 1000 Mbps ports
- 4 SFP 1000 Mbps ports
- min=0 \ max=4 SFP 1000 Transceivers
- 1U - Height

See Configuration  
**NOTE:**1, 3, 4, 5, 6

PDU Cable NA/MEX/TW/JP

JG303B#B2B

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

PDU Cable ROW

JG303B#B2C

- C15 PDU Jumper Cord (ROW)

High Volt Switch/Router to Wall Power Cord

JG303B#B2E

- NEMA L6-20P Cord (NA/MEX/JP/TW)

Configuration Rules:

Note 1

The following Transceivers install into this switch: (SFP 1000 Mbps ports only)

HPE X125 1G SFP LC LH40 1310nm Transceiver

JD061A

HPE X120 1G SFP LC LH40 1550nm Transceiver

JD062A

## Configuration

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 The following Transceivers install into this switch: (SFP 100 Mbps ports only)

HPE X110 100M SFP LC LH40 Transceiver	JD090A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A

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 EI Switch	JG299B
<ul style="list-style-type: none"> <li>24 RJ-45 autosensing 10/100 ports</li> <li>2 dual-personality 10/100/1000 ports/ SFP 1000 Mbps ports</li> <li>4 SFP 1000 Mbps ports</li> <li>min=0 \ max=4 SFP 1000 Transceivers</li> <li>1U - Height</li> </ul>	See Configuration <b>NOTE:</b> 1, 3, 4, 5
PDU Cable NA/MEX/TW/JP	JG299B#B2B
<ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	

PDU Cable ROW	JG299B#B2C
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## Configuration

- C15 PDU Jumper Cord (ROW)

HPE FlexNetwork 3600 48 v2 EI Switch

- 48 RJ-45 autosensing 10/100 ports
- 2 dual-personality 10/100/1000 ports/ SFP 1000 Mbps ports
- 4 SFP 1000 Mbps ports
- min=0 \ max=4 SFP 1000 Transceivers
- 1U - Height

JG300B

See Configuration  
**NOTE:**1, 3, 4, 5

PDU Cable NA/MEX/TW/JP

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

JG300B#B2B

PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

JG300B#B2C

HPE FlexNetwork 3600 24 PoE+ v2 EI Switch

- 24 RJ-45 autosensing 10/100 PoE+ ports
- 2 dual-personality 10/100/1000 ports/ SFP 1000 Mbps ports
- 4 SFP 1000 Mbps ports
- min=0 \ max=4 SFP 1000 Transceivers
- 1U - Height

JG301C

See Configuration  
**NOTE:**1, 3, 4, 5

PDU Cable NA/MEX/TW/JP

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

JG301C#B2B

PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

JG301C#B2C

HPE FlexNetwork 3600 48 PoE+ v2 EI Switch

- 48 RJ-45 autosensing 10/100 PoE+ ports
- 2 dual-personality 10/100/1000 ports/ SFP 1000 Mbps ports
- 4 SFP 1000 Mbps ports
- min=0 \ max=4 SFP 1000 Transceivers
- 1U - Height

JG302C

See Configuration  
**NOTE:**1, 3, 4, 5

PDU Cable NA/MEX/TW/JP

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

JG302C#B2B

PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

JG302C#B2C

HPE FlexNetwork 3600 24 SFP v2 EI Switch

- 24 SFP 100 Mbps ports
- min=0 \ max=24 SFP 100 Transceivers
- 2 dual-personality 10/100/1000 ports/ SFP 1000 Mbps ports
- 4 SFP 1000 Mbps ports

JG303B

See Configuration  
**NOTE:**1, 2, 3, 4, 5

## Configuration

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

PDU Cable NA/MEX/TW/JP JG303B#B2B

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

PDU Cable ROW JG303B#B2C

- C15 PDU Jumper Cord (ROW)

Configuration Rules:

Note 1 The following Transceivers install into this switch: (SFP 1000 Mbps ports only)

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 2 The following Transceivers install into this switch: (SFP 100 Mbps ports only)

HPE X110 100M SFP LC LH40 Transceiver	JD090A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A

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

## Configuration

### 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
HPE X110 100M SFP LC LH40 Transceiver	JD090A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A

### 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
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## Configuration

### External Redundant Power Supplies

HPE RPS 800 Redundant Power Supply	JD183A
<ul style="list-style-type: none"><li>• Height = 1U</li><li>• includes 1 x c13, 800w</li></ul>	See Configuration <b>NOTE:2</b>
HPE RPS1600 Redundant Power System	JG136A
<ul style="list-style-type: none"><li>• Height = 1U</li><li>• includes 1 x c13, 1600w and Power Supply port</li></ul>	See Configuration <b>NOTE:2</b>
HPE RPS1600 1600W AC Power Supply	JG137A
<ul style="list-style-type: none"><li>• Installs into JG136A only</li></ul>	See Configuration <b>NOTE:1</b>

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. (See Localization Menu for list.)

### External Redundant Power Cables

HPE X290 500 V 1m RPS Cable	JD186A
HPE X290 1000 A JD5 2m RPS Cable	JD187A
HPE X290 1000 A JD5 NonPoE 2m RPS Cable	JD188A
HPE X290 1000 B JD5 2m RPS Cable	JD189A

## Technical Specifications

### HPE FlexNetwork 3600 24 v2 EI Switch (JG299B)

<b>Ports</b>	24 RJ-45 autosensing 10/100 ports; Duplex: half or full (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX) 4 SFP 1000 Mbps ports 2 dual-personality 1000 Mbps ports (IEEE 802.3ab Type 1000BASE-T)
<b>Additional ports and slots</b>	1 RJ-45 serial console port
<b>Physical characteristics</b>	<b>Dimensions</b> 17.32(w) x 10.24(d) x 1.72(h) in (43.99 x 26.01 x 4.37 cm) (1U height) <b>Weight</b> 11.02 lb (5 kg)
<b>Memory and processor</b>	256 MB SDRAM; Packet buffer size: 2 MB, 128 MB flash
<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> < 6 µs <b>1000 Mb Latency</b> < 5 µs <b>Throughput</b> up to 9.5 Mpps <b>Routing/Switching capacity</b> 12.8 Gbps <b>Switch fabric speed</b> 27.5 Gbps <b>Routing table size</b> 12000 entries (IPv4) <b>MAC address table size</b> 32000 entries
<b>Environment</b>	<b>Operating temperature</b> 32°F to 122°F (0°C to 50°C) <b>Operating relative humidity</b> 5% to 95%, noncondensing <b>Nonoperating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C) <b>Nonoperating/Storage relative humidity</b> 5% to 95%, noncondensing <b>Acoustic</b> Low-speed fan: 42.8 dB, High-speed fan: 49.9 dB
<b>Electrical characteristics</b>	<b>Frequency</b> 50/60 Hz <b>Maximum heat dissipation</b> 106 BTU/hr (111.83 kJ/hr) <b>Voltage</b> 100 - 240 VAC, rated <b>Maximum power rating</b> 31 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 60950-1; 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

<b>Emissions</b>	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
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager
<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

### HPE FlexNetwork 3600 48 v2 EI Switch (JG300B)

<b>Ports</b>	48 RJ-45 autosensing 10/100 ports; Duplex: half or full (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX) 4 SFP 1000 Mbps ports 2 dual-personality 1000 Mbps ports (IEEE 802.3ab Type 1000BASE-T)
<b>Additional ports and slots</b>	1 RJ-45 serial console port
<b>Physical characteristics</b>	<p><b>Dimensions</b> 17.32(w) x 10.24(d) x 1.72(h) in (43.99 x 26.01 x 4.37 cm) (1U height)</p> <p><b>Weight</b> 11.02 lb (5 kg)</p>
<b>Memory and processor</b>	256 MB SDRAM; Packet buffer size: 4 MB, 128 MB flash
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)
<b>Performance</b>	<p><b>100 Mb Latency</b> &lt; 6 µs</p> <p><b>1000 Mb Latency</b> &lt; 5 µs</p> <p><b>Throughput</b> up to 13.1 Mpps</p> <p><b>Routing/Switching capacity</b> 17.6 Gbps</p> <p><b>Switch fabric speed</b> 55 Gbps</p> <p><b>Routing table size</b> 12000 entries (IPv4)</p> <p><b>MAC address table size</b> 32000 entries</p>
<b>Environment</b>	<p><b>Operating temperature</b> 32°F to 122°F (0°C to 50°C)</p> <p><b>Operating relative humidity</b> 5% to 95%, noncondensing</p> <p><b>Nonoperating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C)</p> <p><b>Nonoperating/Storage relative humidity</b> 5% to 95%, noncondensing</p> <p><b>Acoustic</b> Low-speed fan: 43.5 dB, High-speed fan: 55.0 dB</p>
<b>Electrical characteristics</b>	<p><b>Frequency</b> 50/60 Hz</p> <p><b>Maximum heat dissipation</b> 147 BTU/hr (155.08 kJ/hr)</p> <p><b>Voltage</b> 100 - 240 VAC, rated</p> <p><b>Maximum power rating</b> 43 W</p> <p><b>Notes</b> Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure</p>

## Technical Specifications

with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.

<b>Safety</b>	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
<b>Emissions</b>	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
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager
<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

### HPE FlexNetwork 3600 24 PoE+ v2 EI Switch (JG301C)

<b>Ports</b>	24 RJ-45 autosensing 10/100 PoE+ ports; Duplex: half or full (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+)
	4 SFP 1000 Mbps ports
	2 dual-personality 1000 Mbps ports (IEEE 802.3ab Type 1000BASE-T)

<b>Additional ports and slots</b>	1 RJ-45 serial console port
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<b>Physical characteristics</b>	<b>Dimensions</b>	17.32(w) x 16.54(d) x 1.72(h) in (43.99 x 42.01 x 4.37 cm) (1U height)
	<b>Weight</b>	22.05 lb (10 kg)

<b>Memory and processor</b>	256 MB SDRAM; Packet buffer size: 2 MB, 128 MB flash
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<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)
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<b>Performance</b>	<b>100 Mb Latency</b> < 6 µs <b>1000 Mb Latency</b> < 5 µs <b>Throughput</b> up to 9.5 Mpps <b>Routing/Switching capacity</b> 12.8 Gbps
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<b>Environment</b>	<b>Operating temperature</b> 32°F to 122°F (0°C to 50°C) <b>Operating relative humidity</b> 5% to 95%, noncondensing
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<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
<b>Nonoperating/Storage relative humidity</b>	5% to 95%, noncondensing

<b>Electrical characteristics</b>	<b>Acoustic</b> Low-speed fan: 44.7 dB, High-speed fan: 53.8 dB <b>Frequency</b> 50/60 Hz <b>Maximum heat</b> 143 BTU/hr (150.86 kJ/hr)
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## Technical Specifications

<b>dissipation</b>	
<b>Voltage</b>	100 - 240 VAC, rated
<b>Maximum power rating</b>	795 W
<b>PoE power</b>	720 W PoE+
<b>Notes</b>	<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.</p> <p>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).</p> <p>With AC input, the maximum power consumption is 465 W; PoE is 370 W.</p> <p>With DC input, the maximum power consumption is 795 W; PoE is 720 W.</p>
<b>Safety</b>	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
<b>Emissions</b>	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
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager
<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

### HPE FlexNetwork 3600 48 PoE+ v2 EI Switch (JG302C)

<b>Ports</b>	48 RJ-45 autosensing 10/100 PoE+ ports; Duplex: half or full (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+)
	4 SFP 1000 Mbps ports
	2 dual-personality 1000 Mbps ports (IEEE 802.3ab Type 1000BASE-T)
<b>Additional ports and slots</b>	1 RJ-45 serial console port
<b>Physical characteristics</b>	<p><b>Dimensions</b> 17.32(w) x 16.54(d) x 1.72(h) in (44 x 42 x 4.36 cm) (1U height)</p> <p><b>Weight</b> 22.05 lb (10 kg)</p>
<b>Memory and processor</b>	256 MB SDRAM; Packet buffer size: 4 MB, 128 MB flash
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)
<b>Performance</b>	<p><b>100 Mb Latency</b> &lt; 6 µs</p> <p><b>1000 Mb Latency</b> &lt; 5 µs</p> <p><b>Throughput</b> up to 13.1 Mpps</p> <p><b>Routing/Switching capacity</b> 17.6 Gbps</p> <p><b>Switch fabric speed</b> 55 Gbps</p> <p><b>Routing table size</b> 12000 entries (IPv4)</p>

## Technical Specifications

<b>Environment</b>	<b>MAC address table size</b>	32000 entries
	<b>Operating temperature</b>	32°F to 122°F (0°C to 50°C)
	<b>Operating relative humidity</b>	5% to 95%, noncondensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
<b>Electrical characteristics</b>	<b>Nonoperating/Storage relative humidity</b>	5% to 95%, noncondensing
	<b>Acoustic</b>	Low-speed fan: 43.5 dB, High-speed fan: 55 dB
	<b>Frequency</b>	50/60 Hz
	<b>Maximum heat dissipation</b>	198 BTU/hr (208.89 kJ/hr)
	<b>Voltage</b>	100 - 240 VAC, rated
	<b>Maximum power rating</b>	440 W
	<b>PoE power</b>	320 W PoE+
<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).	
	With AC input, the maximum power consumption is 440 W, PoE is 320 W.	
	With DC input, the maximum power consumption is 820 W, PoE is 720 W.	
<b>Safety</b>	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	
<b>Emissions</b>	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	
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager	
<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	

### HPE FlexNetwork 3600 24 SFP v2 EI Switch (JG303B)

<b>Ports</b>	24 SFP 100 Mbps ports 4 SFP 1000 Mbps ports 2 dual-personality 1000 Mbps ports; Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only (IEEE 802.3ab Type 1000BASE-T)
<b>Additional ports and slots</b>	1 RJ-45 serial console port
<b>Physical characteristics</b>	<b>Dimensions</b> 17.32(w) x 10.24(d) x 1.72(h) in (43.99 x 26.01 x 4.37 cm) (1U height)

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<b>Memory and processor</b>	<b>Weight</b>	11.02 lb (5 kg)
<b>Mounting and enclosure</b>	256 MB SDRAM; Packet buffer size: 2 MB, 128 MB flash	
<b>Performance</b>	<b>Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)</b>	
	<b>100 Mb Latency</b>	< 6 µs
	<b>1000 Mb Latency</b>	< 5 µs
	<b>Throughput</b>	up to 9.5 Mpps
	<b>Routing/Switching capacity</b>	12.8 Gbps
	<b>Switch fabric speed</b>	27.5 Gbps
	<b>Routing table size</b>	12000 entries (IPv4)
	<b>MAC address table size</b>	32000 entries
<b>Environment</b>	<b>Operating temperature</b>	32°F to 122°F (0°C to 50°C)
	<b>Operating relative humidity</b>	5% to 95%, noncondensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	5% to 95%, noncondensing
	<b>Acoustic</b>	Low-speed fan: 43.5 dB, High-speed fan: 50.1 dB
<b>Electrical characteristics</b>	<b>Frequency</b>	50/60 Hz
	<b>Maximum heat dissipation</b>	205 BTU/hr (216.27 kJ/hr)
	<b>Voltage</b>	100 - 240 VAC, rated
	<b>Maximum power rating</b>	60 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 60950-1; 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	
<b>Emissions</b>	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	
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager	
<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	

### Standards and protocols **Device management**

(Applies to all products in series)	RFC 1157 SNMPv1/v2c	MIBs
	RFC 1901-1907 SNMPv2c, SMIv2 and Revised MIB-	RFC 1213 MIB II

RFC 1493 Bridge MIB
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## Technical Specifications

II	RFC 1724 RIPv2 MIB	
RFC 2573 (SNMPv3 Applications)	RFC 1757 Remote Network Monitoring MIB	
RFC 2578-2580 SMIV2	RFC 1850 OSPFv2 MIB	
RFC 2819 (RMON groups Alarm, Event, History and Statistics only)	RFC 1907 SNMPv2 MIB	
RFC 3410 (Management Framework)	RFC 2233 Interfaces MIB	
RFC 3416 (SNMP Protocol Operations v2)	RFC 2571 SNMP Framework MIB	
RFC 3417 (SNMP Transport Mappings)	RFC 2572 SNMP-MPD MIB	
HTML and telnet management	RFC 2573 SNMP-Notification MIB	
Multiple Configuration Files	RFC 2573 SNMP-Target MIB	
SNMP v3 and RMON RFC support	RFC 2574 SNMP USM MIB	
SSHv1/SSHv2 Secure Shell	RFC 2618 RADIUS Authentication Client MIB	
<b>General protocols</b>		
IEEE 802.1ad Q-in-Q	RFC 2620 RADIUS Accounting Client MIB	
IEEE 802.1D MAC Bridges	RFC 2665 Ethernet-Like-MIB	
IEEE 802.1p Priority	RFC 2674 802.1p and IEEE 802.1Q Bridge MIB	
IEEE 802.1Q VLANs	RFC 2819 RMON MIB	
IEEE 802.1s (MSTP)	RFC 2863 The Interfaces Group MIB	
IEEE 802.1v VLAN classification by Protocol and Port	RFC 3414 SNMP-User based-SM MIB	
IEEE 802.1w Rapid Reconfiguration of Spanning Tree	RFC 3415 SNMP-View based-ACM MIB	
IEEE 802.1X PAE	<b>Network management</b>	
IEEE 802.3 Type 10BASE-T	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)	
IEEE 802.3ab 1000BASE-T	RFC 1157 SNMPv1	
IEEE 802.3ac (VLAN Tagging Extension)	RFC 1757 RMON 4 groups: Stats, History, Alarms and Events	
IEEE 802.3ad Link Aggregation Control Protocol (LACP)	RFC 1901 Introduction to Community-based SNMPv2	
IEEE 802.3af Power over Ethernet	RFC 1902 Structure of Management Information for Version 2 of the Simple Network Management Protocol (SNMPv2)	
IEEE 802.3at Power over Ethernet Plus	RFC 1903 SNMPv2 Textual Conventions	
IEEE 802.3i 10BASE-T	RFC 1904 SNMPv2 Conformance	
IEEE 802.3u 100BASE-X	RFC 1905 SNMPv2 Protocol Operations	
IEEE 802.3x Flow Control	RFC 1906 SNMPv2 Transport Mappings	
IEEE 802.3z 1000BASE-X	RFC 2570 SNMPv3 Overview	
RFC 768 UDP	RFC 2571 An Architecture for Describing SNMP Management Frameworks	
RFC 783 TFTP Protocol (revision 2)	RFC 2572 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)	
RFC 791 IP	RFC 2573 SNMP Applications	
RFC 792 ICMP	RFC 2574 SNMPv3 User-based Security Model (USM)	
RFC 793 TCP	RFC 2575 SNMPv3 View-based Access Control Model (VACM)	
RFC 826 ARP	RFC 2578 Structure of Management Information Version 2 (SMIV2)	
RFC 1058 RIPv1	RFC 2579 Textual Conventions for SMIV2	
RFC 1213 Management Information Base for Network Management of TCP/IP-based internets	RFC 2580 Conformance Statements for SMIV2	
RFC 1812 IPv4 Routing		
RFC 2131 DHCP		
RFC 2236 IGMP Snooping		
RFC 2338 VRRP		

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RFC 2453 RIPv2  
RFC 2474 Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers  
RFC 2644 Directed Broadcast Control  
RFC 2665 Definitions of Managed Objects for the Ethernet-like Interface Types  
RFC 2711 IPv6 Router Alert Option  
RFC 3410 Applicability Statements for SNMP  
RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)  
RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)  
RFC 3416 Protocol Operations for SNMP  
RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP)  
RFC 4594 Configuration Guidelines for DiffServ Service Classes

RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)  
RFC 3410 Introduction to Version 3 of the Internet-standard Network Management Framework  
RFC 3414 SNMPv3 User-based Security Model (USM)  
RFC 3415 SNMPv3 View-based Access Control Model (VACM)  
ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)  
SNMPv1/v2c/v3

### OSPF

RFC 1583 OSPFv2  
RFC 1587 OSPF NSSA  
RFC 1850 OSPFv2 Management Information Base (MIB), traps  
RFC 2328 OSPFv2

### QoS/CoS

RFC 4594 Configuration Guidelines for DiffServ Service Classes

### IP multicast

RFC 1112 IGMP  
RFC 2236 IGMPv2  
RFC 2362 PIM Sparse Mode  
RFC 3618 Multicast Source Discovery Protocol (MSDP)  
RFC 3973 PIM Dense Mode

### IPv6

RFC 1881 IPv6 Address Allocation Management  
RFC 1887 IPv6 Unicast Address Allocation Architecture  
RFC 1981 IPv6 Path MTU Discovery  
RFC 2080 RIPng for IPv6  
RFC 2373 IPv6 Addressing Architecture  
RFC 2375 IPv6 Multicast Address Assignments  
RFC 2460 IPv6 Specification  
RFC 2461 IPv6 Neighbor Discovery  
RFC 2462 IPv6 Stateless Address Auto-configuration  
RFC 2463 ICMPv6  
RFC 2464 Transmission of IPv6 over Ethernet Networks  
RFC 2475 IPv6 DiffServ Architecture  
RFC 2710 Multicast Listener Discovery (MLD) for IPv6  
RFC 2711 IPv6 Router Alert Option  
RFC 2740 OSPFv3 for IPv6

## Technical Specifications

RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers  
RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only)  
RFC 2925 Remote Operations MIB (Ping only)  
RFC 3056 Connection of IPv6 Domains via IPv4 Clouds  
RFC 3162 RADIUS and IPv6  
RFC 3306 Unicast-Prefix-based IPv6 Multicast Addresses  
RFC 3307 IPv6 Multicast Address Allocation  
RFC 3315 DHCPv6 (client and relay)  
RFC 3484 Default Address Selection for IPv6  
RFC 3493 Basic Socket Interface Extensions for IPv6  
RFC 3513 IPv6 Addressing Architecture  
RFC 3542 Advanced Sockets API for IPv6  
RFC 3587 IPv6 Global Unicast Address Format  
RFC 3596 DNS Extension for IPv6  
RFC 3810 MLDv2 (host joins only)  
RFC 4113 MIB for UDP  
RFC 4291 IP Version 6 Addressing Architecture  
RFC 4293 MIB for IP  
RFC 4443 ICMPv6  
RFC 4861 IPv6 Neighbor Discovery  
RFC 4862 IPv6 Stateless Address Auto-configuration  
RFC 5095 Deprecation of Type 0 Routing Headers in IPv6  
RFC 5340 OSPFv3 for IPv6

## Accessories

### HPE 3600 EI 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 X110 100M SFP LC LH40 Transceiver	JD090A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
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 RPS 800 Redundant Power Supply	JD183A
HPE RPS1600 Redundant Power System	JG136A
HPE RPS1600 1600W AC Power Supply	JG137A

#### Power cords

HPE X290 500 V 1m RPS Cable	JD186A
HPE X290 1000 A JD5 2m RPS Cable	JD187A
HPE X290 1000 A JD5 NonPoE 2m RPS Cable	JD188A
HPE X290 1000 B JD5 2m RPS Cable	JD189A

#### HPE FlexNetwork 3600 24 SFP v2 EI Switch (JG303B)

HPE X110 100M SFP LC LX Transceiver	JD120B
HPE X115 100M SFP LC FX Transceiver	JD102B

## Accessory Product Details

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

<b>HPE X125 1G SFP LC</b> <b>LH40 1310nm</b> <b>Transceiver (JD061A)</b>  A small form-factor pluggable SFP Gigabit LH40 transceiver that provides a full duplex Gigabit solution up to 40km on a single-mode fiber.	<b>Ports</b>	1 LC 1000Base-LH port (no IEEE standard exists for 1550 nm optics)
	<b>Connectivity</b>	Connector type LC
		Wavelength 1310 nm
	<b>Physical characteristics</b>	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)
	<b>Electrical characteristics</b>	Power consumption typical 0.8 W
		Power consumption 1.0 W maximum
	<b>Cabling</b>	Cable type: Single-mode fiber optic, complying with ITU-T G.652;
		Maximum distance: <ul style="list-style-type: none"> <li>• 40km distance</li> </ul>
<b>HPE X120 1G SFP LC</b> <b>LH40 1550nm</b> <b>Transceiver (JD062A)</b>  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.	<b>Ports</b>	1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)
	<b>Connectivity</b>	Connector type LC
		Wavelength 1550 nm
	<b>Physical characteristics</b>	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)
	<b>Electrical characteristics</b>	Power consumption typical 0.8 W
		Power consumption 1.0 W maximum
	<b>Cabling</b>	Cable type: Single-mode fiber optic, complying with ITU-T G.652;
		Maximum distance: <ul style="list-style-type: none"> <li>• 40km distance</li> </ul>
<b>Services</b>	<b>Fiber type</b>	Single Mode
	Refer to the Hewlett Packard Enterprise website at	
	<b>http://www.hpe.com/networking/services</b>	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>Fiber type</b>	Single Mode
	Refer to the Hewlett Packard Enterprise website at	
	<b>http://www.hpe.com/networking/services</b>	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>Fiber type</b>	Single Mode
	Refer to the Hewlett Packard Enterprise website at	
	<b>http://www.hpe.com/networking/services</b>	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

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>HPE X125 1G SFP LC LH70 Transceiver</b> (JD063B)  A small form-factor pluggable (SFP) Gigabit LH70 transceiver that provides a full-duplex Gigabit solution up to 70km on a single-mode fiber.	<b>Ports</b>	1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)
	<b>Connectivity</b>	<b>Connector type</b> LC
		<b>Wavelength</b> 1550 nm
	<b>Physical characteristics</b>	<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>	Cable type: Single-mode fiber optic, complying with ITU-T G.652;  Maximum distance: • 70km Fiber type Single Mode
	<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <b><a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a></b> 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>HPE X120 1G SFP RJ45 T Transceiver</b> (JD089B)  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.	<b>Ports</b>	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>Full configuration weight</b> 0.07 lb. (0.03 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: 1000BASE-T: Category 5 (5E or better recommended), 100 Η differential 4-pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;  Maximum distance: • 100m
	<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <b><a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a></b> 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

<b>HPE X120 1G SFP LC BX Ports 10-U Transceiver</b> (JD098B)	<b>Connectivity</b>	<b>Connector type</b>	LC
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.	<b>Physical characteristics</b>	<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: • 10km	
		Fiber type	Single Mode
	<b>Notes</b>	TX 1310nm RX 1490nm	
	<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>HPE X120 1G SFP LC BX Ports 10-D Transceiver</b> (JD099B)	<b>Connectivity</b>	<b>Connector type</b>	LC
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.	<b>Physical characteristics</b>	<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: • Up to 10km	
		Fiber type	Single Mode
	<b>Notes</b>	TX 1490nm RX 1310nm	
	<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>HPE X120 1G SFP LC SX Ports</b>	<b>Connectivity</b>	<b>Connector type</b>	LC
		1 LC 1000BASE-SX port	

## Accessory Product Details

<b>Transceiver</b> (JD118B)	<b>Physical characteristics</b>	<b>Wavelength</b>	850 nm
A small form-factor pluggable (SFP) Gigabit SX transceiver that provides a full-duplex Gigabit solution up to 550m on a Multimode fiber.		<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: • FDDI Grade distance = 220m • OM1 = 275m • OM2 = 500m • OM3 = Not Specified by standard	
		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	

<b>HPE X120 1G SFP LC LX</b>	<b>Ports</b>	1 SFP 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX)	
<b>Transceiver</b> (JD119B)	<b>Connectivity</b>	<b>Connector type</b>	LC
A small form-factor pluggable (SFP) Gigabit LX transceiver that provides a full duplex Gigabit solution up to 550m on MMF or 10Km on SMF	<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)
		<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: • 550m for Multimode • 10km for Singlemode	
		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	

## Accessory Product Details

### HP LC to LC Multi-mode Cabling

#### OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable

(AJ833A)

#### 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 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: 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 LC to LC Multi-mode Cabling

#### OM3 2-Fiber 1.0m 1-Pack

#### Fiber Optic Cable

(AJ834A)

#### 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 um 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:  $50 \pm 3.0\mu\text{m}$  Cladding diameter:  $125 \pm 2.0\mu\text{m}$  Coating diameter:  $245 \pm 10\mu\text{m}$
- Optical Glass Bandwidth: For LED sources:  $1500/500 \text{ MHz-km}$  @ $850/1300\text{nm}$ .
- Optical Glass: For Laser sources:  $2000/500 \text{ MHz-km}$  @ $850/1300\text{nm}$ . VCSEL Laser sources: Shall achieve  $600 / 600$  meters @ $850/1300\text{nm}$  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  $0.5 \text{ dB}$  @  $850$  with LED source,  $0.003 \text{ dB/M}$  added for lengths  $> 30$  meters.
- Maximum Cable attenuation:  $3.0 \text{ dB/km}$  @  $850 \text{ nm}$ ,  $1.0 \text{ dB/km}$  @  $1310 \text{ nm}$  @  $23^\circ\text{C}$  as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight:  $1 \text{ LB}$  Net Weight:  $0.454\text{Kg}$

### 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 LC to LC Multi-mode Cabling

#### OM3 2-Fiber 2.0m 1-

#### Pack Fiber Optic Cable

(AJ835A)

#### Cable type:

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

#### Maximum distance:

$10\text{Gbps}$  Transfer Rate (Ethernet):  $300\text{m}$

### 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:  $1500/500 \text{ MHz-km}$  @ $850/1300\text{nm}$ .
- Optical Glass: For Laser sources:  $2000/500 \text{ MHz-km}$  @ $850/1300\text{nm}$ . VCSEL Laser sources: Shall achieve  $600 / 600$  meters @ $850/1300\text{nm}$  for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index  $50/125\mu\text{m}$

## Accessory Product Details

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 LC to LC Multi-mode Cabling

#### OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable

(AJ836A)

### 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: This specification defines the detail requirements for a 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 50/125 $\mu$ 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.

## Accessory Product Details

- 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

<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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### HP LC to LC Multi-mode Cabling OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable (AJ837A)

**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

<b>Notes</b>	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.
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- 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 $\mu$ 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

<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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## Accessory Product Details

### HP LC to LC Multi-mode Cabling

#### OM3 2-Fiber 30.0m 1-

#### Pack Fiber Optic Cable

(AJ838A)

#### 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

<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 LC to LC Multi-mode Cabling

#### OM3 2-Fiber 50.0m 1-

#### Pack Fiber Optic Cable

(AJ839A)

#### 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

## Accessory Product Details

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:  $1500/500 \text{ MHz-km}$  @ $850/1300\text{nm}$ .
- Optical Glass: For Laser sources:  $2000/500 \text{ MHz-km}$  @ $850/1300\text{nm}$ . VCSEL Laser sources: Shall achieve  $600 / 600$  meters @ $850/1300\text{nm}$  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  $0.5 \text{ dB}$  @  $850$  with LED source,  $0.003 \text{ dB/M}$  added for lengths  $> 30$  meters.
- Maximum Cable attenuation:  $3.0 \text{ dB/km}$  @  $850 \text{ nm}$ ,  $1.0 \text{ dB/km}$  @  $1310 \text{ nm}$  @  $23^\circ\text{C}$  as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight:  $1 \text{ LB}$  Net Weight:  $0.454\text{Kg}$

### 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 Notes

#### Multi-mode OM4 2 fiber

**1m Cable** (QK732A)

Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+  $50/125\mu\text{m}$  duplex cable and Ethernet assembly with LC duplex connectors on each end.

- Core Diameter:  $50\mu\text{m} \pm 3\mu\text{m}$ , Cladding diameter:  $125\mu\text{m} \pm 2\mu\text{m}$ ; Coating diameter:  $245 \pm 10\mu\text{m}$
- Bandwidth:  $3000 \text{ MHz-km}$  @  $850\text{nm}$  (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable,  $50/125\mu\text{m}$ , 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  $0.5\text{dB}$  @  $850\text{nm}$  with LED source,  $0.003\text{dB/m}$  added for lengths  $>30\text{m}$
- Maximum Cable Attenuation:  $3.0 \text{ dB/km}$  @  $850\text{nm}$ ,  $1.0 \text{ dB/km}$  @  $1310\text{nm}$  @  $23^\circ\text{C}$  as tested in accordance with EIA 455-45

### 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

### HP Premier Flex LC/LC Notes

#### Multi-mode OM4 2 fiber

**2m Cable** (QK733A)

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: 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.
- 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

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### HP Premier Flex LC/LC Notes

#### Multi-mode OM4 2 fiber

**5m Cable** (QK734A)

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: 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.
- 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

## Accessory Product Details

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### HP Premier Flex LC/LC Notes

#### Multi-mode OM4 2 fiber

**15m Cable** (QK735A)

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: 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.
- 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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<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 Notes

#### Multi-mode OM4 2 fiber

**30m Cable** (QK736A)

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: 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.
- 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

## 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

### HP Premier Flex LC/LC Notes

#### Multi-mode OM4 2 fiber

**50m Cable** (QK737A)

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: 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.
- 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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### HPE RPS1600

#### Redundant Power

**System** (JG136A)

### Ports

8 redundant power supply ports

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

## Accessory Product Details

<b>Current</b>	30/60 A
<b>Idle power</b>	38 W
<b>Maximum power rating</b>	3550 W
<b>RPS power</b>	3200 W
<b>PoE power</b>	2800 W
<b>RPS</b>	-55 V
<b>PoE</b>	-55 V
<b>Frequency</b>	50/60 Hz
<b>Notes</b>	<p>Idle power is the actual power consumption of the device with no ports connected.</p> <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.</p> <p>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.</p>
<b>Safety</b>	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
<b>Services</b>	<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>

<b>HPE RPS1600 1600W AC Power Supply</b> (JG137A)	<b>Physical characteristics</b>	<b>Dimensions</b>	8.19(d) x 4.96(w) x 1.63(h) in. (20.8 x 12.6 x 4.15 cm)
		<b>Weight</b>	3.02 lb. (1.37 kg)
	<b>Environment</b>	<b>Operating temperature</b>	14°F to 122°F (-10°C to 50°C)
		<b>Operating relative humidity</b>	5% to 95%
		<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
		<b>Nonoperating/Storage relative humidity</b>	5% to 95%
	<b>Electrical characteristics</b>	<b>Voltage</b>	100-120/200-240 VAC
		<b>Current</b>	15/30 A
		<b>Maximum power rating</b>	1600 W
		<b>Frequency</b>	50/60 Hz
		<b>Notes</b>	Maximum power rating and maximum heat

## Accessory Product Details

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

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## Summary of Changes

Date	Version History	Action	Description of Change:
29-Apr-2016	From Version 15 to 16	Changed	SKU descriptions updated on all the document
01-Apr-2016	From Version 14 to 15	Changed	Technical Specifications updated
01-Dec-2015	From Version 13 to 14	Changed	Overview and Technical Specifications updated
20-Apr-2015	From Version 12 to 13	Changed	Models update from A to B/B to C  Features and Benefits, Technical Specifications and Accessories were updated
01-Dec-2014	From Version 11 to 12	Changed	Warranty and support updated
21-Apr-2014	From Version 10 to 11	Changed	Standards and Protocols were revised.
08-Apr-2014	From Version 9 to 10	Removed	Removed several items from the Transceivers section of Accessories.
18-Dec-2013	From Version 7 to 9	Changed	Notes were revised throughout Configuration.
19-Jul-2013	From Version 6 to 7	Added	Configuration was added.
10-Jun-2013	From Version 5 to 6	Added	OM4 cables were added.
24-Aug-2012	From Version 4 to 5	Changed	The QuickSpecs were completely revised, including adding several 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.
08-Mar-2011	From Version 1 to 2	Changed	Revisions were made throughout.



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