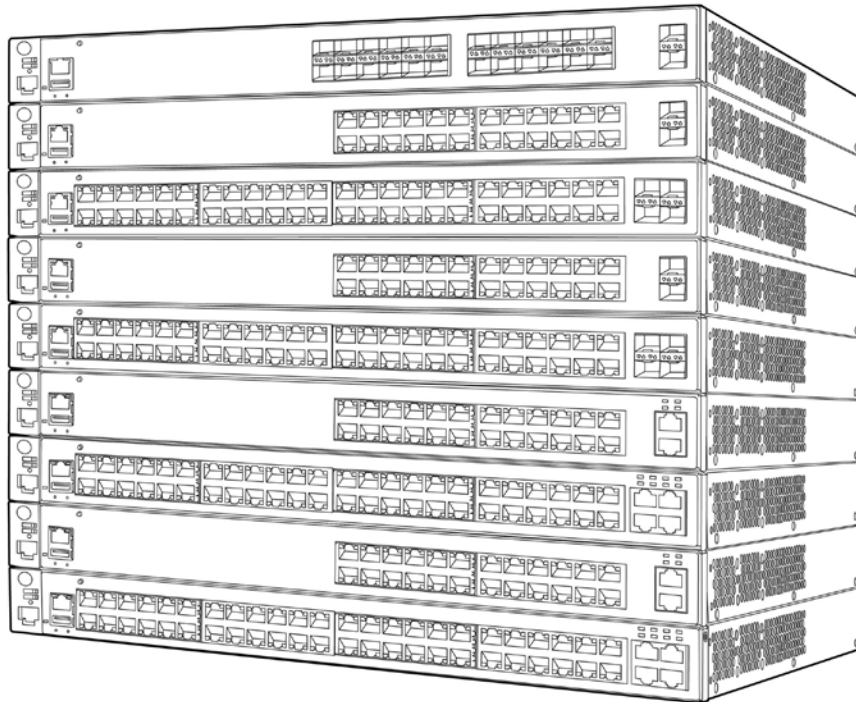


### Overview

### Aruba 3800 Switch Series



### Aruba 3800 Switch Series Family

#### Models

Aruba 3800 24G PoE+ 2SFP+ Switch	J9573A
Aruba 3800 48G PoE+ 4SFP+ Switch	J9574A
Aruba 3800 24G 2SFP+ Switch	J9575A
Aruba 3800 48G 4SFP+ Switch	J9576A
HP 3800-24G-2XG Switch	J9585A
HP 3800-48G-4XG Switch	J9586A
HP 3800-24G-PoE+-2XG Switch	J9587A
HP 3800-48G-PoE+-4XG Switch	J9588A
Aruba 3800 24SFP 2SFP+ Switch	J9584A

#### Key features

- Fully managed L3 stackable switch series
- Highly resilient low-latency architecture
- SFP+, 10GBASE-T, PoE+, and modular stacking
- Highly resilient meshed stacking technology
- Limited Lifetime Warranty

## Overview

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### Product overview

The Aruba 3800 Switch Series is a family of nine fully managed Gigabit Ethernet switches available in 24-port and 48-port models, with or without PoE+, and with either SFP+ or 10GBASE-T uplinks. The 3800 Switch Series utilizes the latest ProVision ASIC technology and advances in hardware engineering to deliver one of the most resilient and energy-efficient switches in the industry. In addition, meshed stacking technology is implemented in this switch series to deliver chassis-like resiliency in a flexible, stackable form factor.

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### Features and benefits

#### Software-defined networking

- **OpenFlow**  
is a key technology that enables SDN by allowing separation of the data (packet forwarding) and control (routing decision) paths

#### Unified Wired and Wireless

- **ClearPass Policy Manager support**  
unified wired and wireless policies using Aruba ClearPass Policy Manager
- **HTTP redirect function**  
supports HPE Intelligent Management Center (IMC) bring your own device (BYOD) solution
- **Switch auto-configuration**  
automatically configures switch for different settings such as VLAN, CoS, PoE max power, and PoE priority when an Aruba access point is detected
- **User role**  
defines a set of switch-based policies in areas such as security, authentication, and QoS. A user role can be assigned to a group of users or devices, using switch configuration or ClearPass
- **Per-port tunneled node**  
provides a secured tunnel to transport network traffic on a per-port basis to an Aruba Controller. Authentication and network policies will be applied and enforced at the Controller
- **Static IP visibility**  
provides a way for ClearPass to do accounting for clients with static IP address

#### Quality of Service (QoS)

- **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
- **Layer 4 prioritization**  
enables prioritization based on TCP/UDP port numbers
- **Class of Service (CoS)**  
sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ
- **Bandwidth shaping:**
  - **Port-based rate limiting:** provides per-port ingress-/egress-enforced increased bandwidth
  - **Classifier-based rate limiting:** uses an access control list (ACL) to enforce increased bandwidth for ingress traffic on each port
  - **Reduced bandwidth:** provides per-port, per-queue egress-based reduced bandwidth
- **Remote intelligent mirroring**  
mirrors selected ingress/egress traffic based on an ACL, port, MAC address, or VLAN to a local or remote HPE 8200 zl, 6600, 6200 yl, 5400 zl, or 3500 switch anywhere on the network
- **Remote monitoring (RMON), Extended RMON (XRMON), and sFlow v5**  
provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events

## Overview

- **Traffic prioritization**  
allows real-time traffic classification into eight priority levels that are mapped to eight queues

## Management

- **Friendly port names**  
allows assignment of descriptive names to ports
- **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
- **Command authorization**  
leverages RADIUS to link a custom list of CLI commands to an individual network administrator's login; an audit trail documents activity
- **Uni-Directional Link Detection (UDLD)**  
monitors a cable between two switches and shuts down the ports on both ends if the cable is broken, turning the bidirectional link into a unidirectional one; this prevents network problems such as loops
- **Multiple configuration files**  
allows assignment of descriptive names to ports
- **Dual flash images**  
provides independent primary and secondary operating system files for backup while upgrading
- **Out-of-Band Ethernet management port**  
enables management over a separate physical management network; and keeps management traffic segmented from network data traffic
- **Comware CLI**
  - **Comware-compatible CLI**  
bridges the experience of Hewlett Packard Enterprise Comware CLI users who are using the ProVision CLI
  - **Display and fundamental Comware CLI commands**  
are natively embedded in the switch CLI; display output is formatted as on Comware-based switches; fundamental commands provide Comware-familiar initial switch setup
  - **Configuration Comware CLI commands**  
when Comware commands are entered, CLI help is elicited to formulate the correct ProVision software CLI command
- **Zero-Touch ProVisioning (ZTP)**  
simplifies installation of the switch infrastructure using the Aruba Activate-based or a DHCP-based process with AirWave Network Management.

## Connectivity

- **Jumbo frames**  
on Gigabit Ethernet and 10-Gigabit Ethernet ports, jumbo frames allow high-performance remote backup and disaster-recovery services
- **IEEE 802.3at PoE+**  
provides up to 30 W per port to IEEE 802.3at-complaint PoE/PoE+-powered devices such as video IP phones, IEEE 802.11n wireless access points, and advanced pan/zoom/tilt security cameras
- **Pre-standard PoE support**  
detects and provides power to pre-standard PoE devices (refer to the list of supported devices in the product FAQs, which can be accessed at <http://www.hpe.com/networking>)
- **Choice of uplinks:**
  - **SFP+ uplink models:** provide fiber-optic (up to 70 km) or direct-attach-cable (DAC) connectivity
  - **10GBASE-T uplink models:** offer 10GbE speeds, using standard RJ-45 connectors and standard twisted-pair cabling up to 100 m
- **Auto-MDIX**  
provides automatic adjustments for straight-through or crossover cables on all RJ-45 ports
- **IPv6:**

## Overview

- **IPv6 host:** enables switch management in an IPv6 network
- **Dual stack (IPv4 and IPv6):** transitions IPv4 to IPv6, supporting connectivity for both protocols
- **MLD snooping:** forwards IPv6 multicast traffic to the appropriate interface
- **IPv6 ACL/QoS:** supports ACL and QoS for IPv6 traffic
- **IPv6 routing:** supports static, RIPng, OSPFv3 routing protocols
- **6in4 tunneling:** supports encapsulation of IPv6 traffic in IPv4 packets
- **Security:** provides RA guard, DHCPv6 protection, dynamic IPv6 lockdown, and ND snooping

## Performance

- **Selectable queue configurations**  
allows for increased performance by selecting the number of queues and associated memory buffering that best meet the requirements of the network applications
- **Energy-efficient design:**
  - **80 PLUS Silver Certified power supply:** increases power efficiency and savings
  - **Energy-efficient Ethernet (EEE) support:** reduces power consumption in accordance with IEEE 802.3az
- **Meshed stacking technology:**
  - **High-performance stacking:** provides up to 336 Gb/s of stacking throughput; each 4-port stacking module can support up to 42 Gb/s in each direction per stacking port
  - **Ring, chain, and mesh topologies:** support up to a 10-member ring or chain and 5-member fully meshed stacks; meshed topologies offer increased resiliency vs. a standard ring
  - **Virtualized switching:** provides simplified management as the switches appear as a single chassis when stacked
- **Hewlett Packard Enterprise ProVision ASIC architecture:**  
is designed with the latest ProVision ASIC, providing very low latency, increased packet buffering, and adaptive power consumption

## Resiliency and high availability

- **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
- **Nonstop switching and routing**  
improves network availability to better support critical applications, such as unified communication and mobility; traffic will continue to be forwarded during failovers, when the backup member of the stack becomes the commander
- **IEEE 802.3ad Link Aggregation Protocol (LACP) and Hewlett Packard Enterprise port trunking**  
support up to 24 trunks, each with up to 8 links (ports) per trunk
- **IEEE 802.1s Multiple Spanning Tree**  
provides high link availability in multiple VLAN environments by allowing multiple spanning trees; provides legacy support for IEEE 802.1d and IEEE 802.1w
- **Dual hot-swappable power supplies**
  - **Increased resiliency:** provides secondary power supply to enable complete switch power redundancy in case of power line or supply failure
  - **Increased PoE+ power:** provides the secondary power supply to increase the total available PoE+ power
- **Distributed trunking**  
enables loop-free and redundant network topology without using Spanning Tree Protocol; allows a server or switch to connect to two switches using one logical trunk for redundancy and load sharing
- **SmartLink**  
provides easy-to-configure link redundancy of active and standby links

## Layer 2 switching

- **IEEE 802.1ad QinQ**  
increases the scalability of an Ethernet network by providing a hierarchical structure; connects multiple LANs on a high-speed campus or metro network

## Overview

- **IEEE 802.1v protocol VLANs**  
isolate select non-IPv4 protocols automatically into their own VLANs
- **MAC-based VLAN**  
provides granular control and security; uses RADIUS to map a MAC address/user to specific VLANs
- **Rapid Per-VLAN Spanning Tree (RPVST+)**  
allows each VLAN to build a separate spanning tree to improve link bandwidth usage; is compatible with PVST+
- **Hewlett Packard Enterprise switch meshing**  
dynamically load balances across multiple active redundant links to increase available aggregate bandwidth; allows concurrent Layer 3 routing
- **GVRP and MVRP**  
allows automatic learning and dynamic assignment of VLANs
- **VLAN support and tagging**  
supports the IEEE 802.1Q standard and 4094 VLANs simultaneously

## Layer 3 services

- **Loopback interface address**  
defines an address in Routing Information Protocol (RIP) and Open Standard Path First (OSPF), improving diagnostic capability
- **Route maps**  
provide more control during route redistribution; allow filtering and altering of route metrics
- **User Datagram Protocol (UDP) helper function**  
allows UDP broadcasts to be directed across router interfaces to specific IP unicast or subnet broadcast addresses; and helps prevent server spoofing for UDP services such as DHCP
- **DHCP server**  
centralizes and reduces the cost of IPv4 address management

## Layer 3 routing

- **Static IP routing**  
provides manually configured routing for both IPv4 and IPv6 networks
- **OSPF**  
provides OSPFv2 for IPv4 routing and OSPFv3 for IPv6 routing
- **Policy-based routing**  
makes routing decisions based on policies set by the network administrator
- **Border Gateway Protocol (BGP)**  
provides IPv4 Border Gateway Protocol routing, which is scalable, robust, and flexible
- **Routing Information Protocol (RIP)**  
provides RIPv1, RIPv2, and RIPng routing

## Security

- **Source-port filtering**  
allows only specified ports to communicate with each other
- **RADIUS/TACACS+**  
eases switch management security administration by using a password authentication server
- **Secure shell**  
encrypts all transmitted data for secure remote CLI access over IP networks
- **Secure Sockets Layer (SSL)**  
encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- **Port security**  
allows access only to specified MAC addresses, which can be learned or specified by the administrator
- **MAC address lockout**  
prevents particular configured MAC addresses from connecting to the network

## Overview

- **Detection of malicious attacks**  
monitors 10 types of network traffic and sends a warning when an anomaly that potentially can be caused by malicious attacks is detected
- **Secure FTP**  
allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file
- **Switch management logon security**  
helps secure switch CLI logon by optionally requiring either RADIUS or TACACS+ authentication
- **Secure management access**  
securely encrypts all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3
- **ICMP throttling**  
defeats ICMP denial-of-service attacks by enabling any switch port to automatically throttle ICMP traffic
- **Identity-driven ACL**  
enables implementation of a highly granular and flexible access security policy and VLAN assignment specific to each authenticated network user
- **STP BPDU port protection**  
blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
- **Dynamic IP lockdown**  
works with DHCP protection to block traffic from unauthorized hosts, preventing IP source address spoofing
- **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
- **STP Root Guard**  
protects the root bridge from malicious attacks or configuration mistakes
- **Management Interface Wizard**  
helps secure management interfaces such as SNMP, telnet, SSH, SSL, Web, and USB at the desired level
- **Security banner**  
displays a customized security policy when users log in to the switch
- **Switch CPU protection**  
provides automatic protection against malicious network traffic trying to shut down the switch
- **ACLs**  
provide filtering based on the IP field, source/destination IP address/subnet and source/destination TCP/UDP port number on a per-VLAN or per-port basis
- **Multiple authentication methods**
  - **IEEE 802.1X**  
authenticates multiple IEEE 802.1X users per port; prevents a user from "piggybacking" on another user's authentication
  - **Web-based authentication**  
authenticates from Web browser for clients that do not support 802.1X supplicant
  - **MAC-based authentication**  
authenticates client with the RADIUS server based on client's MAC address
  - **Concurrent authentication modes**  
enables a switch port to accept up to 32 sessions of 802.1X, Web, and MAC authentication
- **Private VLAN**  
provides network security by restricting peer-to-peer communication to prevent a variety of malicious attacks; typically a switch port can only communicate with other ports in the same community and/or an uplink port, regardless of VLAN ID or destination MAC address

## Convergence

- **IP multicast snooping** (data-driven IGMP)  
automatically prevents flooding of IP multicast traffic
- **LLDP-MED** (Media Endpoint Discovery)  
defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to configure automatically

## Overview

- network devices such as IP phones
- **PoE allocations**  
support multiple methods (automatic, IEEE 802.3af class, LLDP-MED, or user specified) to allocate PoE power for more efficient energy savings
- **IP multicast routing**  
includes PIM sparse and dense modes to route IP multicast traffic
- **Auto VLAN configuration for voice**
  - **RADIUS VLAN**  
uses a standard RADIUS attribute and LLDP-MED to automatically configure a VLAN for IP phones
  - **CDPv2**  
uses CDPv2 to configure legacy IP phones
- **Local MAC Authentication**  
assigns attributes such as VLAN and QoS using locally configured profile that can be a list of MAC prefixes

## 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.

#### Aruba 3800 24G PoE+ 2SFP+ Switch

- 24 RJ-45 autosensing 10/100/1000 PoE+ ports
- 2 fixed 1000/10000 SFP+ ports 1 open stacking module slot
- min=0 \ max=2 SFP+ Transceivers
- 1 HP X312 100w Power Supply included
- 1 Aruba 3800 Switch Fan Tray (J9582A) included
- 1U - Height

J9573A  
See Configuration  
**NOTE: 1, 2**

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

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

J9573A#B2B

#### PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

J9573A#B2C

#### High Volt Switch to Wall Power Cord

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

J9573A#B2E

#### Aruba 3800 48G PoE+ 4SFP+ Switch

- 48 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 fixed 1000/10000 SFP+ ports
- min=0 \ max=4 SFP+ Transceivers
- 1 open stacking module slot
- 1 HP X312 100w Power Supply included
- 1 Aruba 3800 Switch Fan Tray (J9582A) included
- 1U - Height

J9574A  
See Configuration  
**NOTE: 1, 2**

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

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

J9574A#B2B

#### PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

J9574A#B2C

#### High Volt Switch to Wall Power Cord

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

J9574A#B2E

#### Aruba 3800 24G 2SFP+ Switch

J9575A



## Configuration

<ul style="list-style-type: none"> <li>• 24 RJ-45 autosensing 10/100/1000 ports</li> <li>• 24 autosensing 1000/10000 SFP+ ports</li> <li>• min=0 \ max=2 SFP+ Transceivers</li> <li>• 1 open stacking module slot</li> <li>• 1 X311 400W Power Supply included</li> <li>• 1 Aruba 3800 Switch Fan Tray (J9582A) included</li> <li>• 1U - Height</li> </ul>	See Configuration <b>NOTE: 1, 2</b>
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	J9575A#B2B
PDU Cable ROW <ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (ROW)</li> </ul>	J9575A#B2C
High Volt Switch to Wall Power Cord <ul style="list-style-type: none"> <li>• NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>	J9575A#B2E
Aruba 3800 48G 4SFP+ Switch <ul style="list-style-type: none"> <li>• 48 autosensing 10/100/1000 port</li> <li>• 4 fixed 1000/10000 SFP+ ports</li> <li>• min=0 \ max=4 SFP+ Transceivers</li> <li>• 1 open stacking module slot</li> <li>• 1 X311 400W Power Supply included</li> <li>• 1 Aruba 3800 Switch Fan Tray (J9582A) included</li> <li>• 1U - Height</li> </ul>	J9576A See Configuration <b>NOTE: 1, 2</b>
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	J9576A#B2B
PDU Cable ROW <ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (ROW)</li> </ul>	J9576A#B2C
High Volt Switch to Wall Power Cord <ul style="list-style-type: none"> <li>• NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>	J9576A#B2E
Aruba 3800 24SFP 2SFP+ Switch <ul style="list-style-type: none"> <li>• 24 SFP 100/1000 Mbps ports</li> <li>• min=0 \ max=24 SFP Transceivers</li> <li>• 2 fixed 1000/10000 SFP+ ports</li> <li>• min=0 \ max=2 SFP+ Transceivers</li> <li>• 1 open stacking module slot</li> <li>• 1 X311 400W Power Supply included</li> <li>• 1 Aruba 3800 Switch Fan Tray (J9582A) included</li> </ul>	J9584A See Configuration <b>NOTE: 1, 2, 4</b>

## Configuration

<ul style="list-style-type: none"><li>1U - Height</li></ul>	
PDU Cable NA/MEX/TW/JP	J9584A#B2B
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>	
PDU Cable ROW	J9584A#B2C
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>	
High Volt Switch to Wall Power Cord	J9584A#B2E
<ul style="list-style-type: none"><li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li></ul>	
HP 3800-24G-2XG Switch	J9585A
<ul style="list-style-type: none"><li>24 RJ-45 autosensing 10/100/1000 ports</li><li>2 RJ-45 10GbE ports</li><li>1 X311 400W Power Supply included</li><li>1 Aruba 3800 Switch Fan Tray (J9582A) included</li><li>1 open stacking module slot</li><li>1U - Height</li></ul>	See Configuration <b>NOTE: 2</b>
PDU Cable NA/MEX/TW/JP	J9585A#B2B
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>	
PDU Cable ROW	J9585A#B2C
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>	
High Volt Switch to Wall Power Cord	J9585A#B2E
<ul style="list-style-type: none"><li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li></ul>	
HP 3800-48G-4XG Switch	J9586A
<ul style="list-style-type: none"><li>48 RJ-45 autosensing 10/100/1000 ports</li><li>4 RJ-45 10GbE ports</li><li>1 HP X311 400W Power Supply included</li><li>1 Aruba 3800 Switch Fan Tray (J9582A) included</li><li>1 open stacking module slot</li><li>1U - Height</li></ul>	See Configuration <b>NOTE: 2</b>
PDU Cable NA/MEX/TW/JP	J9586A#B2B
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>	

## Configuration

PDU Cable ROW	J9586A#B2C
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>	
High Volt Switch to Wall Power Cord	J9586A#B2E
<ul style="list-style-type: none"><li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li></ul>	
HP 3800-24G-PoE+-2XG Switch	J9587A
<ul style="list-style-type: none"><li>24 RJ-45 autosensing 10/100/1000 PoE+ ports</li><li>2 RJ-45 10GbE ports</li><li>1 HP X312 1000W Power Supply include</li><li>1 Aruba 3800 Switch Fan Tray (J9582A) included</li><li>1 open stacking module slot</li><li>1U - Height</li></ul>	See Configuration <b>NOTE: 2</b>
PDU Cable NA/MEX/TW/JP	J9587A#B2B
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>	
PDU Cable ROW	J9587A#B2C
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>	
High Volt Switch to Wall Power Cord	J9587A#B2E
<ul style="list-style-type: none"><li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li></ul>	
HP 3800-48G-PoE+-4XG Switch	J9588A
<ul style="list-style-type: none"><li>48 RJ-45 autosensing 10/100/1000 PoE+ ports</li><li>4 RJ-45 10GbE ports</li><li>1 HP X312 1000W Power Supply included</li><li>1 Aruba 3800 Switch Fan Tray (J9582A) included</li><li>1 open stacking module slot</li><li>1U - Height</li></ul>	
PDU Cable NA/MEX/TW/JP	J9588A#B2B
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>	
PDU Cable ROW	J9588A#B2C
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>	
High Volt Switch to Wall Power Cord	J9588A#B2E
<ul style="list-style-type: none"><li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li></ul>	

## Configuration

### Configuration Rules:

**NOTE 1** The following Transceivers install into this Switch (For the 1000/10000 SFP+ Ports):

HPE X121 1G SFP LC LH Transceiver	J4860C
HPE X121 1G SFP LC LX Transceiver	J4859C
HPE X121 1G SFP LC SX Transceiver	J4858C
HP X122 1G SFP LC BX-D Transceiver	J9142B
HP X122 1G SFP LC BX-U Transceiver	J9143B
HPE X121 1G SFP RJ45 T Transceiver	J8177C
HPE X132 10G SFP+ LC SR Transceiver	J9150A
HPE X132 10G SFP+ LC ER Transceiver	J9153A
HPE X132 10G SFP+ LC LR Transceiver	J9151A
HPE X132 10G SFP+ LC LRM Transceiver	J9152A
HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable	J9300A
HP 10G X244 XFP to SFP+ 3m Direct Attach Copper Cable	J9301A
HP 10G X244 XFP to SFP+ 5m Direct Attach Copper Cable	J9302A

**NOTE 2** Localization required on orders without #B2B, #B2C or #B2E options.

**NOTE 4** The following Transceivers install into this Switch:

HPE X121 1G SFP LC LH Transceiver	J4860C
HPE X121 1G SFP LC LX Transceiver	J4859C
HPE X121 1G SFP LC SX Transceiver	J4858C
HP X122 1G SFP LC BX-D Transceiver	J9142B
HP X122 1G SFP LC BX-U Transceiver	J9143B
HPE X121 1G SFP RJ45 T Transceiver	J8177C
HPE X111 100M SFP LC FX Transceiver	J9054C

## Box Level Integration CTO Models

### CTO Solution SKU

Aruba 38xx Configure-to-order Switch Solution

JG501A

- SSP trigger SKU

### CTO Switch Chassis

Aruba 3800 24G PoE+ 2SFP+ Switch

J9573A

- 24 RJ-45 autosensing 10/100/1000 PoE+ ports
- 2 fixed 1000/10000 SFP+ ports
- min=0 \ max=2 SFP+ Transceivers
- 1 open stacking module slot
- 1 HP X312 100w Power Supply included

See Configuration  
**NOTE: 1, 2, 10, 11**

## Configuration

<ul style="list-style-type: none"> <li>• 1 Aruba 3800 Switch Fan Tray (J9582A) included</li> <li>• 1U - Height</li> </ul>	
PDU Cable NA/MEX/TW/JP	J9573A#B2B
<ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	J9573A#B2C
<ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch to Wall Power Cord	J9573A#B2E
<ul style="list-style-type: none"> <li>• " NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>	
Aruba 3800 48G PoE+ 4SFP+ Switch	J9574A
<ul style="list-style-type: none"> <li>• 48 RJ-45 autosensing 10/100/1000 PoE+ ports</li> <li>• 4 fixed 1000/10000 SFP+ ports</li> <li>• min=0 \ max=4 SFP+ Transceivers</li> <li>• 1 open stacking module slot</li> <li>• 1 HP X312 100w Power Supply included</li> <li>• 1 Aruba 3800 Switch Fan Tray (J9582A) included</li> <li>• 1U - Height</li> </ul>	See Configuration <b>NOTE: 1, 2, 10, 11</b>
PDU Cable NA/MEX/TW/JP	J9574A#B2B
<ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	J9574A#B2C
<ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch to Wall Power Cord	J9574A#B2E
<ul style="list-style-type: none"> <li>• NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>	
Aruba 3800 24G 2SFP+ Switch	J9575A
<ul style="list-style-type: none"> <li>• 24 RJ-45 autosensing 10/100/1000 ports</li> <li>• 2 fixed 1000/10000 SFP+ ports</li> <li>• min=0 \ max=2 SFP+ Transceivers</li> <li>• 1 open stacking module slot</li> <li>• 1 X311 400W Power Supply included</li> <li>• 1 Aruba 3800 Switch Fan Tray (J9582A) included</li> <li>• 1U - Height</li> </ul>	See Configuration <b>NOTE: 1, 2, 10, 11</b>
PDU Cable NA/MEX/TW/JP	J9575A#B2B

## Configuration

<ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	J9575A#B2C
<ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch to Wall Power Cord	J9575A#B2E
<ul style="list-style-type: none"> <li>• " NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>	
Aruba 3800 48G 4SFP+ Switch	J9576A
<ul style="list-style-type: none"> <li>• 48 RJ-45 autosensing 10/100/1000 ports</li> <li>• 4 fixed 1000/10000 SFP+ ports</li> <li>• min=0 \ max=4 SFP+ Transceivers</li> <li>• 1 open stacking module slot</li> <li>• 1 X311 400W Power Supply included</li> <li>• 1 Aruba 3800 Switch Fan Tray (J9582A) included</li> <li>• 1U - Height</li> </ul>	See Configuration <b>NOTE: 1, 2, 10, 11</b>
PDU Cable NA/MEX/TW/JP	J9576A#B2B
<ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	J9576A#B2C
<ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch to Wall Power Cord	J9576A#B2E
<ul style="list-style-type: none"> <li>• NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>	
Aruba 3800 24SFP 2SFP+ Switch	J9584A
<ul style="list-style-type: none"> <li>• 24 SFP 100/1000 Mbps ports</li> <li>• min=0 \ max=24 SFP Transceivers</li> <li>• 2 fixed 1000/10000 SFP+ ports</li> <li>• min=0 \ max=2 SFP+ Transceivers</li> <li>• 1 open stacking module slot</li> <li>• 1 X311 400W Power Supply included</li> <li>• 1 Aruba 3800 Switch Fan Tray (J9582A) included</li> <li>• 1U - Height</li> </ul>	See Configuration <b>NOTE: 1, 2, 4, 10, 11</b>
PDU Cable NA/MEX/TW/JP	J9584A#B2B
<ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	J9584A#B2C

## Configuration

- C15 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord J9584A#B2E

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

HP 3800-24G-2XG Switch

- 24 RJ-45 autosensing 10/100/1000 ports
- 2 RJ-45 10GbE ports
- 1 X311 400W Power Supply included
- 1 Aruba 3800 Switch Fan Tray (J9582A) included
- 1 open stacking module slot
- 1U - Height

J9585A  
See Configuration  
**NOTE: 2, 10, 11**

PDU Cable NA/MEX/TW/JP

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

J9585A#B2B

PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

J9585A#B2C

High Volt Switch to Wall Power Cord

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

J9585A#B2E

HP 3800-48G-4XG Switch

- 48 RJ-45 autosensing 10/100/1000 ports
- 4 RJ-45 10GbE ports
- 1 HP X311 400W Power Supply included
- 1 Aruba 3800 Switch Fan Tray (J9582A) included
- 1 open stacking module slot
- 1U - Height

J9586A  
See Configuration  
**NOTE: 2, 10, 11**

PDU Cable NA/MEX/TW/JP

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

J9586A#B2B

PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

J9586A#B2C

High Volt Switch to Wall Power Cord

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

J9586A#B2E

## Configuration

HP 3800-24G-PoE+-2XG Switch	J9587A
<ul style="list-style-type: none"> <li>• 24 RJ-45 autosensing 10/100/1000 PoE+ ports</li> <li>• 2 RJ-45 10GbE ports</li> <li>• 1 HP X312 1000W Power Supply included</li> <li>• 1 Aruba 3800 Switch Fan Tray (J9582A) included</li> <li>• 1 open stacking module slot</li> <li>• 1U - Height</li> </ul>	See Configuration <b>NOTE: 2, 10, 11</b>
PDU Cable NA/MEX/TW/JP	J9587A#B2B
<ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	J9587A#B2C
<ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch to Wall Power Cord	J9587A#B2E
<ul style="list-style-type: none"> <li>• NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>	
HP 3800-48G-PoE+-4XG Switch	J9588A
<ul style="list-style-type: none"> <li>• 48 RJ-45 autosensing 10/100/1000 PoE+ ports</li> <li>• 4 RJ-45 10GbE ports</li> <li>• 1 HP X312 1000W Power Supply included</li> <li>• 1 Aruba 3800 Switch Fan Tray (J9582A) included</li> <li>• 1 open stacking module slot</li> <li>• 1U - Height</li> </ul>	See Configuration <b>NOTE: 2, 10, 11</b>
PDU Cable NA/MEX/TW/JP	J9588A#B2B
<ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	J9588A#B2C
<ul style="list-style-type: none"> <li>• C15 PDU Jumper Cord (ROW)</li> </ul>	
High Volt Switch to Wall Power Cord	J9588A#B2E
<ul style="list-style-type: none"> <li>• NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>	

### Configuration Rules:

#### NOTE 1 The following Transceivers install into this Switch:

HPE X121 1G SFP LC LH Transceiver	J4860C
HPE X121 1G SFP LC LX Transceiver	J4859C
HPE X121 1G SFP LC SX Transceiver	J4858C
HP X122 1G SFP LC BX-D Transceiver	J9142B



## Configuration

HP X122 1G SFP LC BX-U Transceiver	J9143B
HPE X121 1G SFP RJ45 T Transceiver	J8177C
HPE X132 10G SFP+ LC SR Transceiver	J9150A
HPE X132 10G SFP+ LC ER Transceiver	J9153A
HPE X132 10G SFP+ LC LR Transceiver	J9151A
HPE X132 10G SFP+ LC LRM Transceiver	J9152A
HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable	J9300A
HP 10G X244 XFP to SFP+ 3m Direct Attach Copper Cable	J9301A
HP 10G X244 XFP to SFP+ 5m Direct Attach Copper Cable	J9302A

**NOTE 2** Localization required on orders without #B2B, #B2C or #B2E options.

**NOTE 4** The following Transceivers install into this Switch: (For the 100/1000 SFP Ports)

HPE X121 1G SFP LC LH Transceiver	J4860C
HPE X121 1G SFP LC LX Transceiver	J4859C
HPE X121 1G SFP LC SX Transceiver	J4858C
HP X122 1G SFP LC BX-D Transceiver	J9142B
HP X122 1G SFP LC BX-U Transceiver	J9143B
HPE X121 1G SFP RJ45 T Transceiver	J8177C
HPE X111 100M SFP LC FX Transceiver	J9054C

**NOTE 10** If the Switch Chassis is to be Factory Integrated (CTO), Then the #0D1 is required on the Switch Chassis and integrated to the JG501A HPE 3800 CTO Enablement. (Min 1/Max 1 Switch per SSP)

**NOTE 11** If this Switch is selected, Then a Minimum of 1 factory integrated accessory must be ordered and integrated to CTO chassis. See Menu below, option must have a #0D1 to be integrated to the CTO Chassis.

## Rack Level Integration CTO Models

Aruba 3800 24G PoE+ 2SFP+ Switch

- 24 RJ-45 autosensing 10/100/1000 PoE+ ports
- 2 fixed 1000/10000 SFP+ ports
- min=0 \ max=2 SFP+ Transceivers
- 1 open stacking module slot
- 1 HP X312 100w Power Supply included
- 1 Aruba 3800 Switch Fan Tray (J9582A) included
- 1U - Height

J9573A

See Configuration  
**NOTE: 1, 2, 5, 6, 11**

PDU Cable NA/MEX/TW/JP

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

J9573A#B2B

PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

J9573A#B2C

## Configuration

### Aruba 3800 48G PoE+ 4SFP+ Switch

- 48 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 fixed 1000/10000 SFP+ ports
- min=0 \ max=4 SFP+ Transceivers
- 1 open stacking module slot
- 1 HP X312 100w Power Supply included
- 1 Aruba 3800 Switch Fan Tray (J9582A) included
- 1U - Height

J9574A

See Configuration  
**NOTE: 1, 2, 5, 6, 11**

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

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

J9574A#B2B

### PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

J9574A#B2C

### Aruba 3800 24G 2SFP+ Switch

- 24 RJ-45 autosensing 10/100/1000 ports
- 2 fixed 1000/10000 SFP+ ports
- min=0 \ max=2 SFP+ Transceivers
- 1 open stacking module slot
- 1 X311 400W Power Supply included
- 1 Aruba 3800 Switch Fan Tray (J9582A) included
- 1U - Height

J9575A

See Configuration  
**NOTE: 1, 2, 5, 6, 11**

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

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

J9575A#B2B

### PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

J9575A#B2C

### Aruba 3800 48G 4SFP+ Switch

- 48 RJ-45 autosensing 10/100/1000 ports
- 4 fixed 1000/10000 SFP+ ports
- min=0 \ max=4 SFP+ Transceivers
- 1 open stacking module slot
- 1 X311 400W Power Supply included
- 1 Aruba 3800 Switch Fan Tray (J9582A) included
- 1U - Height

J9576A

See Configuration  
**NOTE: 1, 2, 5, 6, 11**

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

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

J9576A#B2B

## Configuration

PDU Cable ROW	J9576A#B2C
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>	
Aruba 3800 24SFP 2SFP+ Switch	J9584A
<ul style="list-style-type: none"><li>24 SFP 100/1000 Mbps ports</li><li>min=0 \ max=24 SFP Transceivers</li><li>2 fixed 1000/10000 SFP+ ports</li><li>min=0 \ max=2 SFP+ Transceivers</li><li>1 open stacking module slot</li><li>1 X311 400W Power Supply included</li><li>1 Aruba 3800 Switch Fan Tray (J9582A) included</li><li>1U - Height</li></ul>	See Configuration <b>NOTE: 1, 2, 4, 5, 6, 11</b>
PDU Cable NA/MEX/TW/JP	J9584A#B2B
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>	
PDU Cable ROW	J9584A#B2C
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>	
HP 3800-24G-2XG Switch	J9585A
<ul style="list-style-type: none"><li>24 RJ-45 autosensing 10/100/1000 ports</li><li>2 RJ-45 10GbE ports</li><li>1 X311 400W Power Supply included</li><li>1 Aruba 3800 Switch Fan Tray (J9582A) included</li><li>1 open stacking module slot</li><li>1U - Height</li></ul>	
PDU Cable NA/MEX/TW/JP	J9585A#B2B
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>	
PDU Cable ROW	J9585A#B2C
<ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>	
HP 3800-48G-4XG Switch	J9586A
<ul style="list-style-type: none"><li>48 RJ-45 autosensing 10/100/1000 ports</li><li>4 RJ-45 10GbE ports</li><li>1 HP X311 400W Power Supply included</li><li>1 Aruba 3800 Switch Fan Tray (J9582A) included</li><li>1 open stacking module slot</li><li>1U - Height</li></ul>	See Configuration <b>NOTE: 2, 5, 6, 11</b>

## Configuration

PDU Cable NA/MEX/TW/JP	J9586A#B2B
<ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	J9586A#B2C
<ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (ROW)</li> </ul>	
HP 3800-24G-PoE+-2XG Switch	J9587A
<ul style="list-style-type: none"> <li>24 RJ-45 autosensing 10/100/1000 PoE+ ports</li> <li>2 RJ-45 10GbE ports</li> <li>1 HP X312 1000W Power Supply included</li> <li>1 Aruba 3800 Switch Fan Tray (J9582A) included</li> <li>1 open stacking module slot</li> <li>1U - Height</li> </ul>	See Configuration <b>NOTE: 2, 5, 6, 11</b>
PDU Cable NA/MEX/TW/JP	J9587A#B2B
<ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	J9587A#B2C
<ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (ROW)</li> </ul>	
HP 3800-48G-PoE+-4XG Switch	J9588A
<ul style="list-style-type: none"> <li>48 RJ-45 autosensing 10/100/1000 PoE+ ports</li> <li>4 RJ-45 10GbE ports</li> <li>1 HP X312 1000W Power Supply included</li> <li>1 Aruba 3800 Switch Fan Tray (J9582A) included</li> <li>1 open stacking module slot</li> <li>1U - Height</li> </ul>	See Configuration <b>NOTE: 2, 5, 6, 11</b>
PDU Cable NA/MEX/TW/JP	J9588A#B2B
<ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	
PDU Cable ROW	J9588A#B2C
<ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (ROW)</li> </ul>	

### Configuration Rules:

#### NOTE 1 The following Transceivers install into this Switch:

HPE X121 1G SFP LC LH Transceiver	J4860C
HPE X121 1G SFP LC LX Transceiver	J4859C
HPE X121 1G SFP LC SX Transceiver	J4858C
HP X122 1G SFP LC BX-D Transceiver	J9142B

## Configuration

HP X122 1G SFP LC BX-U Transceiver	J9143B
HPE X121 1G SFP RJ45 T Transceiver	J8177C
HPE X132 10G SFP+ LC SR Transceiver	J9150A
HPE X132 10G SFP+ LC ER Transceiver	J9153A
HPE X132 10G SFP+ LC LR Transceiver	J9151A
HPE X132 10G SFP+ LC LRM Transceiver	J9152A
HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable	J9300A
HP 10G X244 XFP to SFP+ 3m Direct Attach Copper Cable	J9301A
HP 10G X244 XFP to SFP+ 5m Direct Attach Copper Cable	J9302A

**NOTE 2** Localization required on orders without #B2B or #B2C options.

**NOTE 4** The following Transceivers install into this Switch: (For the 100/1000 SFP Ports)

HPE X121 1G SFP LC LH Transceiver	J4860C
HPE X121 1G SFP LC LX Transceiver	J4859C
HPE X121 1G SFP LC SX Transceiver	J4858C
HP X122 1G SFP LC BX-D Transceiver	J9142B
HP X122 1G SFP LC BX-U Transceiver	J9143B
HPE X121 1G SFP RJ45 T Transceiver	J8177C
HPE X111 100M SFP LC FX Transceiver	J9054C

**NOTE 5** When Switches/Routers are Factory Racked, Then #B2B, or #B2C should be the Defaulted Power Cable option on the Switches/Routers.

**NOTE 6** If this switch is factory installed in HPE Universal Racks, Then the J9583A#0D1 is required. CLIC Only - Allow the J9583AZ in all regions.

**NOTE 11** If the CTO Switch Chassis needs to be racked, Then the CTO Base Model needs to integrate (with #0D1) to the HPE Universal Rack.

## Internal Power Supplies

System (std 1 // max=2) User Selection (min 0 / max=1) per Switch

HPE X312 1000W 100 240VAC to 54VDC Power Supply	J9580A See Configuration <b>NOTE: 1, 3, 4, 5</b>
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	J9580A#B2B
PDU Cable ROW <ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (ROW)</li> </ul>	J9580A#B2C

## Configuration

High Volt Power Supply to Wall Power Cord <ul style="list-style-type: none"> <li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>	J9580A#B2E
No Power Cord <ul style="list-style-type: none"> <li>No Localized Power Cord Selected</li> </ul>	J9580A#AC3
HPE X311 400W 100 240VAC to 12VDC Power Supply	J9581A See Configuration <b>NOTE: 2, 3, 4, 5</b>
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>	J9581A#B2B
PDU Cable ROW <ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (ROW)</li> </ul>	J9581A#B2C
High Volt Power Supply to Wall Power Cord <ul style="list-style-type: none"> <li>NEMA L6-20P Cord (NA/MEX/JP/TW)</li> </ul>	J9581A#B2E
No Power Cord <ul style="list-style-type: none"> <li>No Localized Power Cord Selected</li> </ul>	J9581A#AC3

### Configuration Rules:

- NOTE 1** If this Power supply is selected, Then J9573A, J9574A, J9587A, J9588A must be the switch its installed into.
- NOTE 2** If this Power supply is selected, Then J9575A, J9576A, J9584A, J9585A, J9586A, must be the switch its installed into.
- NOTE 3** Localization required on orders without #B2B or #B2C options.
- NOTE 4** When Switches are Factory Racked with this power supply, Then #B2B, or #B2C should be the Defaulted Power Cable option on the Power Supplies. (See Drop down remark in "Internal Power Supplies" section.)
- NOTE 5** If Power Supply is ordered with a Switch/Router Solution, then the default Power Cable option should be the same as the Router/Switch.

**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,

## Configuration

(Mexico, Taiwan, and Japan)

Enter the following menu selections as integrated to the CTO Model X switch above if order is factory built.

### Modules

System (std 0 // max=1) User Selection (min 0 / max=1) per Chassis

Aruba 3800 4-port Stacking Module	J9577A See Configuration <b>NOTE: 1</b>
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#### Configuration Rules:

**NOTE 1** The following Cables install into this Module: (Use #B01 quoted to switch if switch is CTO) - if applicable

Aruba 3800/3810M 0.5m Stacking Cable	J9578A
Aruba 3800/3810M 1m Stacking Cable	J9665A
Aruba 3800/3810M 3m Stacking Cable	J9579A

### Transceivers

#### SFP Transceivers

HPE X121 1G SFP LC LH Transceiver	J4860C
HPE X121 1G SFP LC LX Transceiver	J4859C
HPE X121 1G SFP LC SX Transceiver	J4858C
HP X122 1G SFP LC BX-D Transceiver	J9142B
HP X122 1G SFP LC BX-U Transceiver	J9143B
HPE X121 1G SFP RJ45 T Transceiver	J8177C
HPE X111 100M SFP LC FX Transceiver	J9054C

#### SFP+ Transceivers

HPE X132 10G SFP+ LC ER Transceiver	J9153A
HPE X132 10G SFP+ LC SR Transceiver	J9150A
HPE X132 10G SFP+ LC LR Transceiver	J9151A
HPE X132 10G SFP+ LC LRM Transceiver	J9152A

## Configuration

HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
HP X242 10G SFP+ to SFP+ 10m Direct Attach Copper Cable	J9286B
HP X242 10G SFP+ to SFP+ 15m Direct Attach Copper Cable	J9287B
HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable	J9300A
HP 10G X244 XFP to SFP+ 3m Direct Attach Copper Cable	J9301A
HP 10G X244 XFP to SFP+ 5m Direct Attach Copper Cable	J9302A

## Cables

### Stacking Cables

System (std 0 // max=4) User Selection (min 0 / max=4) per Switch

Aruba 3800/3810M 0.5m Stacking Cable	J9578A
Aruba 3800/3810M 1m Stacking Cable	J9665A
Aruba 3800/3810M 3m Stacking Cable	J9579A

### Multi-Mode Cables

HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A



## Configuration

HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A

## Switch Enclosure Options

### Rack Mount Kit

HPE X410 1U Universal 4-post Rackmount Kit	J9583A See Configuration <b>NOTE: 1</b>
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### Configuration Rules:

**NOTE 1** If this switch is factory installed in HPE Universal Racks, Then the J9583A#0D1 is required.  
CLIC Only - Allow the J9583AZ in all regions.

### Fan Tray

Aruba 3800 Switch Fan Tray	J9582A
<ul style="list-style-type: none"><li>This is a Spare Only</li></ul>	

## Technical Specifications

### Aruba 3800 24G PoE+ 2SFP+ Switch (J9573A)

<b>Included accessories</b>	1 Aruba 3800 Switch Fan Tray (J9582A) 1 HPE X312 1000W 100 240VAC to 54VDC Power Supply (J9580A)	
<b>I/O ports and slots</b>	24 RJ-45 autosensing 10/100/1000 PoE+ ports; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+) 2 fixed 1000/10000 SFP+ ports	
<b>Additional ports and slots</b>	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot	
<b>Power supplies</b>	2 power supply slots 1 minimum power supply required includes: 1 x J9580A (HPE X312 1000W 100 240VAC to 54VDC Power Supply)	
<b>Fan tray</b>	includes: 1 x J9582A 1 fan tray slot	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)
	<b>Weight</b>	15.9 lb (7.21 kg)
<b>Memory and processor</b>	<b>Processor</b>	HPE ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 18 MB dynamic
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
<b>Performance</b>	<b>1000 Mb Latency</b>	< 2.8 $\mu$ s (LIFO 64-byte packets)
	<b>10 Gbps Latency</b>	< 1.9 $\mu$ s (LIFO 64-byte packets)
	<b>Throughput</b>	up to 65.4 Mpps (64-byte packets)
	<b>Switching capacity</b>	88 Gbps
	<b>Routing table size</b>	10000 entries (IPv4)
	<b>MAC address table size</b>	65500 entries
<b>Environment</b>	<b>Operating temperature</b>	32°F to 131°F (0°C to 55°C); max temperature is 45°C when transceivers are installed
	<b>Operating relative humidity</b>	15% to 95% @ 104°F (40°C), noncondensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	15% to 90% @ 149°F (65°C), noncondensing
	<b>Altitude</b>	up to 10,000 ft (3 km)
	<b>Acoustic</b>	Power: 49 dB, Pressure: 33.7 dB
<b>Electrical characteristics</b>	<b>Frequency</b>	50/60 Hz
	<b>Maximum heat dissipation</b>	434 BTU/hr (457.87 kJ/hr)
	<b>Voltage</b>	100 - 120 / 200 - 240 VAC, rated
	<b>Current</b>	9.4/7.8 A
	<b>Maximum power rating</b>	127 W
	<b>Idle power</b>	70 W

## Technical Specifications

<b>PoE power</b>	720 W PoE+
<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>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 a single power supply at 120 V input, a maximum of 572 W of PoE power is available.</p>
<b>Safety</b>	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825
<b>Emissions</b>	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
<b>Immunity</b>	<p><b>EN</b> EN 55024, CISPR 24</p> <p><b>ESD</b> IEC 61000-4-2</p> <p><b>Radiated</b> IEC 61000-4-3; 3 V/m</p> <p><b>EFT/Burst</b> IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)</p> <p><b>Surge</b> IEC 61000-4-5; 1 kV/2 kV AC</p> <p><b>Conducted</b> IEC 61000-4-6; 3 V</p> <p><b>Power frequency magnetic field</b> IEC 61000-4-8; 1 A/m, 50 or 60 Hz</p> <p><b>Voltage dips and interruptions</b> IEC 61000-4-11; &gt;95% reductions, 0.5 period; 30% reduction, 25 periods</p> <p><b>Harmonics</b> EN 61000-3-2, IEC 61000-3-2</p> <p><b>Flicker</b> EN 61000-3-3, IEC 61000-3-3</p>
<b>Management</b>	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu
<b>NOTES</b>	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later, for example, J9142B, J8177C).
<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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### Aruba 3800 48G PoE+ 4SFP+ Switch (J9574A)

<b>Included accessories</b>	<p>1 Aruba 3800 Switch Fan Tray (J9582A)</p> <p>1 HPE X312 1000W 100 240VAC to 54VDC Power Supply (J9580A)</p>
<b>I/O ports and slots</b>	<p>48 RJ-45 autosensing 10/100/1000 PoE+ ports; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+)</p> <p>4 fixed 1000/10000 SFP+ ports</p>
<b>Additional ports and slots</b>	<p>1 RJ-45 serial console port</p> <p>1 RJ-45 out-of-band management port</p> <p>1 stacking module slot</p>
<b>Power supplies</b>	<p>2 power supply slots</p> <p>1 minimum power supply required</p> <p>includes: 1 x J9580A (HPE X312 1000W 100 240VAC to 54VDC Power Supply)</p>
<b>Fan tray</b>	<p>includes: 1 x J9582A</p> <p>1 fan tray slot</p>

## Technical Specifications

<b>Physical characteristics</b>	<b>Dimensions</b>	17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)
	<b>Weight</b>	16.84 lb (7.64 kg)
<b>Memory and processor</b>	<b>Processor</b>	HPE ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 36 MB dynamic
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
<b>Performance</b>	<b>1000 Mb Latency</b>	< 2.8 $\mu$ s (LIFO 64-byte packets)
	<b>10 Gbps Latency</b>	< 1.9 $\mu$ s (LIFO 64-byte packets)
	<b>Throughput</b>	up to 130.9 Mpps (64-byte packets)
	<b>Switching capacity</b>	176 Gbps
	<b>Routing table size</b>	10000 entries (IPv4)
	<b>MAC address table size</b>	65500 entries
<b>Environment</b>	<b>Operating temperature</b>	32°F to 131°F (0°C to 55°C); max temperature is 45°C when transceivers are installed
	<b>Operating relative humidity</b>	15% to 95% @ 104°F (40°C), noncondensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	15% to 90% @ 149°F (65°C), noncondensing
	<b>Altitude</b>	up to 10,000 ft (3 km)
	<b>Acoustic</b>	Power: 57 dB, Pressure: 41.2 dB
<b>Electrical characteristics</b>	<b>Frequency</b>	50/60 Hz
	<b>Maximum heat dissipation</b>	635 BTU/hr (669.93 kJ/hr)
	<b>Voltage</b>	100 - 120 / 200 - 240 VAC, rated
	<b>Current</b>	9.4/7.8 A
	<b>Maximum power rating</b>	186 W
	<b>Idle power</b>	97 W
	<b>PoE power</b>	1080 W PoE+
	<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>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 a single power supply at 120 V input, a maximum of 514 W of PoE power is available. With a single power supply at 240 V, a maximum of 814 W of PoE power is available.</p>
<b>Safety</b>	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825	
<b>Emissions</b>	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	
<b>Immunity</b>	<b>EN</b>	EN 55024, CISPR 24
	<b>ESD</b>	IEC 61000-4-2
	<b>Radiated</b>	IEC 61000-4-3; 3 V/m

## Technical Specifications

	<b>EFT/Burst</b>	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	<b>Surge</b>	IEC 61000-4-5; 1 kV/2 kV AC
	<b>Conducted</b>	IEC 61000-4-6; 3 V
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	<b>Voltage dips and interruptions</b>	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
	<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3
<b>Management</b>	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu	
<b>NOTES</b>	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later, for example, J9142B, J8177C).	
<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.	

### Aruba 3800 24G 2SFP+ Switch (J9575A)

<b>Included accessories</b>	1 Aruba 3800 Switch Fan Tray (J9582A) 1 HPE X311 400W 100 240VAC to 12VDC Power Supply (J9581A)	
<b>I/O ports and slots</b>	24 RJ-45 autosensing 10/100/1000 ports; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) 2 fixed 1000/10000 SFP+ ports	
<b>Additional ports and slots</b>	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot	
<b>Power supplies</b>	2 power supply slots 1 minimum power supply required includes: 1 x J9581A (HPE X311 400W 100 240VAC to 12VDC Power Supply)	
<b>Fan tray</b>	includes: 1 x J9582A 1 fan tray slot	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)
	<b>Weight</b>	15.26 lb (6.92 kg)
<b>Memory and processor</b>	<b>Processor</b>	HPE ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 18 MB dynamic
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
<b>Performance</b>	<b>1000 Mb Latency</b>	< 2.8 μs (LIFO 64-byte packets)
	<b>10 Gbps Latency</b>	< 1.9 μs (LIFO 64-byte packets)
	<b>Throughput</b>	up to 65.4 Mpps (64-byte packets)
	<b>Switching capacity</b>	88 Gbps
	<b>Routing table size</b>	10000 entries (IPv4)
	<b>MAC address table size</b>	65500 entries
<b>Environment</b>	<b>Operating temperature</b>	32°F to 131°F (0°C to 55°C); max temperature is 45°C when transceivers are installed
	<b>Operating relative</b>	15% to 95% @ 104°F (40°C), noncondensing

## Technical Specifications

	<b>humidity</b>	
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	15% to 90% @ 14.9°F (65°C), noncondensing
	<b>Altitude</b>	up to 10,000 ft (3 km)
	<b>Acoustic</b>	Power: 36 dB, Pressure: 26.4 dB
<b>Electrical characteristics</b>	<b>Frequency</b>	50/60 Hz
	<b>Maximum heat dissipation</b>	434 BTU/hr (457.87 kJ/hr)
	<b>Voltage</b>	100 - 127 / 200 - 240 VAC, rated
	<b>Current</b>	6/3 A
	<b>Maximum power rating</b>	127 W
	<b>Idle power</b>	66 W
	<b>NOTES</b>	Idle power is the actual power consumption of the device with no ports connected. 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>		EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825
<b>Emissions</b>		FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
<b>Immunity</b>	<b>EN</b>	EN 55024, CISPR 24
	<b>ESD</b>	IEC 61000-4-2
	<b>Radiated</b>	IEC 61000-4-3; 3 V/m
	<b>EFT/Burst</b>	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	<b>Surge</b>	IEC 61000-4-5; 1 kV/2 kV AC
	<b>Conducted</b>	IEC 61000-4-6; 3 V
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	<b>Voltage dips and interruptions</b>	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
	<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3
<b>Management</b>		Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu
<b>NOTES</b>		Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later, for example, J9142B, J8177C).
<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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### Aruba 3800 48G 4SFP+ Switch (J9576A)

<b>Included accessories</b>	1 Aruba 3800 Switch Fan Tray (J9582A) 1 HPE X311 400W 100 240VAC to 12VDC Power Supply (J9581A)
<b>Ports</b>	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full;

## Technical Specifications

	1000BASE-T: full only
	4 fixed 1000/10000 SFP+ ports
<b>Additional ports and slots</b>	1 RJ-45 serial console port
	1 RJ-45 out-of-band management port
	1 stacking module slot
<b>Power supplies</b>	2 power supply slots
	1 minimum power supply required
	includes: 1 x J9581A (HPE X311 400W 100 240VAC to 12VDC Power Supply)
<b>Fan tray</b>	includes: 1 x J9582A
	1 fan tray slot
<b>Physical characteristics</b>	<b>Dimensions</b> 17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)
	<b>Weight</b> 16.01 lb (7.26 kg)
<b>Memory and processor</b>	<b>Processor</b> HPE ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 36 MB dynamic
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only
<b>Performance</b>	<b>1000 Mb Latency</b> < 2.8 $\mu$ s (LIFO 64-byte packets)
	<b>10 Gbps Latency</b> < 1.9 $\mu$ s (LIFO 64-byte packets)
	<b>Throughput</b> up to 130.9 Mpps (64-byte packets)
	<b>Switching capacity</b> 176 Gbps
	<b>Routing table size</b> 10000 entries (IPv4)
	<b>MAC address table size</b> 65500 entries
<b>Environment</b>	<b>Operating temperature</b> 32°F to 131°F (0°C to 55°C); max temperature is 45°C when transceivers are installed
	<b>Operating relative humidity</b> 15% to 95% @ 104°F (40°C), noncondensing
	<b>Nonoperating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b> 15% to 90% @ 14.9°F (65°C), noncondensing
	<b>Altitude</b> up to 10,000 ft (3 km)
	<b>Acoustic</b> Power: 36 dB, Pressure: 25.4 dB
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b> 635 BTU/hr (669.93 kJ/hr)
	<b>Voltage</b> 100 - 127 / 200 - 240 VAC, rated
	<b>Current</b> 6/3 A
	<b>Idle power</b> 70 W
	<b>Maximum power rating</b> 186 W
	<b>Frequency</b> 50/60 Hz
	<b>NOTES</b> Idle power is the actual power consumption of the device with no ports connected. 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>	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825

## Technical Specifications

<b>Emissions</b>	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
<b>Immunity</b>	<p><b>EN</b> EN 55024, CISPR 24</p> <p><b>ESD</b> IEC 61000-4-2</p> <p><b>Radiated</b> IEC 61000-4-3; 3 V/m</p> <p><b>EFT/Burst</b> IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)</p> <p><b>Surge</b> IEC 61000-4-5; 1 kV/2 kV AC</p> <p><b>Conducted</b> IEC 61000-4-6; 3 V</p> <p><b>Power frequency magnetic field</b> IEC 61000-4-8; 1 A/m, 50 or 60 Hz</p> <p><b>Voltage dips and interruptions</b> IEC 61000-4-11; &gt;95% reductions, 0.5 period; 30% reduction, 25 periods</p> <p><b>Harmonics</b> EN 61000-3-2, IEC 61000-3-2</p> <p><b>Flicker</b> EN 61000-3-3, IEC 61000-3-3</p>
<b>Management</b>	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu
<b>NOTES</b>	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later, for example, J9142B, J8177C).
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

### HP 3800-24G-2XG Switch (J9585A)

<b>Included accessories</b>	1 Aruba 3800 Switch Fan Tray (J9582A) 1 HPE X311 400W 100 240VAC to 12VDC Power Supply (J9581A)
<b>Ports</b>	24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only  2 RJ-45 10-GbE ports IEEE 802.3an-2006 Type 10GBASE-T; Duplex: full only
<b>Additional ports and slots</b>	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot
<b>Power supplies</b>	2 power supply slots 1 minimum power supply required includes: 1 x J9581A (HPE X311 400W 100 240VAC to 12VDC Power Supply)
<b>Fan tray</b>	includes: 1 x J9582A 1 fan tray slot
<b>Physical characteristics</b>	<p><b>Dimensions</b> 17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)</p> <p><b>Weight</b> 15.81 lb (7.17 kg)</p>
<b>Memory and processor</b>	<b>Processor</b> HPE ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 18 MB dynamic
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only
<b>Performance</b>	<p><b>1000 Mb Latency</b> &lt; 2.8 μs (LIFO 64-byte packets)</p> <p><b>10 Gbps Latency</b> &lt; 1.9 μs (LIFO 64-byte packets)</p> <p><b>Throughput</b> up to 65.4 Mpps (64-byte packets)</p> <p><b>Switching capacity</b> 88 Gbps</p> <p><b>Routing table size</b> 10000 entries (IPv4)</p>



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<b>Environment</b>	<b>MAC address table size</b>	65500 entries
	<b>Operating temperature</b>	32°F to 131°F (0°C to 55°C)
	<b>Operating relative humidity</b>	15% to 95% @ 104°F (40°C), noncondensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	15% to 90% @ 149°F (65°C), noncondensing
<b>Electrical characteristics</b>	<b>Altitude</b>	up to 10,000 ft (3 km)
	<b>Acoustic</b>	Power: 39 dB, Pressure: 25.5 dB
	<b>Maximum heat dissipation</b>	434 BTU/hr (457.87 kJ/hr)
	<b>Voltage</b>	100 - 127 / 200 - 240 VAC, rated
	<b>Current</b>	6/3 A
	<b>Idle power</b>	70 W
	<b>Maximum power rating</b>	127 W
<b>Safety</b>	<b>Frequency</b>	50/60 Hz
	<b>NOTES</b>	Idle power is the actual power consumption of the device with no ports connected. 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>Emissions</b>	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825
	<b>Immunity</b>	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
	<b>EN</b>	EN 55024, CISPR 24
	<b>ESD</b>	IEC 61000-4-2
	<b>Radiated</b>	IEC 61000-4-3; 3 V/m
	<b>EFT/Burst</b>	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	<b>Surge</b>	IEC 61000-4-5; 1 kV/2 kV AC
	<b>Conducted</b>	IEC 61000-4-6; 3 V
<b>Management</b>	<b>Power frequency magnetic field</b>	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	<b>Voltage dips and interruptions</b>	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
	<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3
	<b>Services</b>	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu
<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 3800-48G-4XG Switch (J9586A)

<b>Included accessories</b>	1 Aruba 3800 Switch Fan Tray (J9582A)
	1 HPE X311 400W 100 240VAC to 12VDC Power Supply (J9581A)
<b>Ports</b>	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type

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	100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
	4 RJ-45 10-GbE ports IEEE 802.3an-2006 Type 10GBASE-T; Duplex: full only
<b>Additional ports and slots</b>	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot
<b>Power supplies</b>	2 power supply slots 1 minimum power supply required includes: 1 x J9581A (HPE X311 400W 100 240VAC to 12VDC Power Supply)
<b>Fan tray</b>	includes: 1 x J9582A 1 fan tray slot
<b>Physical characteristics</b>	<b>Dimensions</b> 17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height) <b>Weight</b> 16.36 lb (7.42 kg)
<b>Memory and processor</b>	<b>Processor</b> HPE ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 36 MB dynamic
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only
<b>Performance</b>	<b>1000 Mb Latency</b> < 2.8 $\mu$ s (LIFO 64-byte packets) <b>10 Gbps Latency</b> < 1.9 $\mu$ s (LIFO 64-byte packets) <b>Throughput</b> up to 130.9 Mpps (64-byte packets) <b>Switching capacity</b> 176 Gbps <b>Routing table size</b> 10000 entries (IPv4) <b>MAC address table size</b> 65500 entries
<b>Environment</b>	<b>Operating temperature</b> 32°F to 131°F (0°C to 55°C); Max temperature is 45C when SFP+ Tranceivers are installed <b>Operating relative humidity</b> 15% to 95% @ 104°F (40°C), noncondensing <b>Nonoperating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C) <b>Nonoperating/Storage relative humidity</b> 15% to 90% @ 149°F (65°C), noncondensing <b>Altitude</b> up to 10,000 ft (3 km) <b>Acoustic</b> Power: 34 dB, Pressure: 24.5 dB
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b> 635 BTU/hr (669.93 kJ/hr) <b>Voltage</b> 100 - 127 / 200 - 240 VAC, rated <b>Current</b> 6/3 A <b>Idle power</b> 74 W <b>Maximum power rating</b> 186 W <b>Frequency</b> 50/60 Hz
	<b>NOTES</b> Idle power is the actual power consumption of the device with no ports connected. 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>	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825

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<b>Emissions</b>	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	
<b>Immunity</b>	<b>EN</b>	EN 55024, CISPR 24
	<b>ESD</b>	IEC 61000-4-2
	<b>Radiated</b>	IEC 61000-4-3; 3 V/m
	<b>EFT/Burst</b>	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	<b>Surge</b>	IEC 61000-4-5; 1 kV/2 kV AC
	<b>Conducted</b>	IEC 61000-4-6; 3 V
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	<b>Voltage dips and interruptions</b>	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
	<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3
<b>Management</b>	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu	
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

### HP 3800-24G-PoE+-2XG Switch (J9587A)

<b>Included accessories</b>	1 Aruba 3800 Switch Fan Tray (J9582A)	
	1 HPE X312 1000W 100 240VAC to 54VDC Power Supply (J9580A)	
<b>Ports</b>	24 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	
	2 RJ-45 10-GbE ports IEEE 802.3an-2006 Type 10GBASE-T; Duplex: full only	
<b>Additional ports and slots</b>	1 RJ-45 serial console port	
	1 RJ-45 out-of-band management port	
	1 stacking module slot	
<b>Power supplies</b>	2 power supply slots	
	1 minimum power supply required includes: 1 x J9580A (HPE X312 1000W 100 240VAC to 54VDC Power Supply)	
<b>Fan tray</b>	includes: 1 x J9582A 1 fan tray slot	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)
	<b>Weight</b>	16.45 lb (7.46 kg)
<b>Memory and processor</b>	<b>Processor</b>	HPE ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash; Packet buffer size: 18 MB dynamic, 2 GB SDRAM
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
<b>Performance</b>	<b>1000 Mb Latency</b>	< 2.8 μs (LIFO 64-byte packets)
	<b>10 Gbps Latency</b>	< 1.9 μs (LIFO 64-byte packets)
	<b>Throughput</b>	up to 65.4 Mpps (64-byte packets)
	<b>Switching capacity</b>	88 Gbps
	<b>Routing table size</b>	10000 entries (IPv4)
	<b>MAC address table size</b>	65500 entries
<b>Environment</b>	<b>Operating temperature</b>	32°F to 131°F (0°C to 55°C)

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	<b>Operating relative humidity</b>	15% to 95% @ 104°F (40°C), noncondensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	15% to 90% @ 149°F (65°C), noncondensing
	<b>Altitude</b>	up to 10,000 ft (3 km)
	<b>Acoustic</b>	Power: 48 dB, Pressure: 32.6 dB
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b>	434 BTU/hr (457.87 kJ/hr)
	<b>Voltage</b>	100 - 120 / 200 - 240 VAC, rated
	<b>Current</b>	9.4/7.8 A
	<b>Idle power</b>	71 W
	<b>Maximum power rating</b>	127 W
	<b>PoE power</b>	720 W PoE+
	<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>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 a single power supply at 120 V input, a maximum of 572 W of PoE power is available.</p>
<b>Safety</b>	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825	
<b>Emissions</b>	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	
<b>Immunity</b>	<b>EN</b>	EN 55024, CISPR 24
	<b>ESD</b>	IEC 61000-4-2
	<b>Radiated</b>	IEC 61000-4-3; 3 V/m
	<b>EFT/Burst</b>	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	<b>Surge</b>	IEC 61000-4-5; 1 kV/2 kV AC
	<b>Conducted</b>	IEC 61000-4-6; 3 V
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	<b>Voltage dips and interruptions</b>	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
	<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3
<b>Management</b>	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu	
<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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<b>Included accessories</b>	1 Aruba 3800 Switch Fan Tray (J9582A) 1 HPE X312 1000W 100 240VAC to 54VDC Power Supply (J9580A)	
<b>Ports</b>	48 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 RJ-45 10-GbE ports IEEE 802.3an-2006 Type 10GBASE-T; Duplex: full only	
<b>Additional ports and slots</b>	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot	
<b>Power supplies</b>	2 power supply slots 1 minimum power supply required includes: 1 x J9580A (HPE X312 1000W 100 240VAC to 54VDC Power Supply)	
<b>Fan tray</b>	includes: 1 x J9582A 1 fan tray slot	
<b>Physical characteristics</b>	<b>Dimensions</b>	17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)
	<b>Weight</b>	17.24 lb (7.82 kg)
<b>Memory and processor</b>	<b>Processor</b>	HPE ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash; Packet buffer size: 36 MB dynamic, 2 GB SDRAM
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); Horizontal surface mounting only	
<b>Performance</b>	<b>1000 Mb Latency</b>	< 2.8 $\mu$ s (LIFO 64-byte packets)
	<b>10 Gbps Latency</b>	< 1.9 $\mu$ s (LIFO 64-byte packets)
	<b>Throughput</b>	up to 130.9 Mpps (64-byte packets)
	<b>Switching capacity</b>	176 Gbps
	<b>Routing table size</b>	10000 entries (IPv4)
	<b>MAC address table size</b>	65500 entries
<b>Environment</b>	<b>Operating temperature</b>	32°F to 131°F (0°C to 55°C); max temperature is 45C when SFP+ transceivers are installed
	<b>Operating relative humidity</b>	15% to 95% @ 104°F (40°C), noncondensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	15% to 90% @ 149°F (65°C), noncondensing
	<b>Altitude</b>	up to 10,000 ft (3 km)
	<b>Acoustic</b>	Power: 57 dB, Pressure: 41.5 dB
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b>	635 BTU/hr (669.93 kJ/hr)
	<b>Voltage</b>	100 - 120 / 200 - 240 VAC, rated
	<b>Current</b>	9.4/7.8 A
	<b>Idle power</b>	100 W
	<b>Maximum power rating</b>	186 W
	<b>PoE power</b>	1080 W PoE+
	<b>Frequency</b>	50/60 Hz
	<b>NOTES</b>	Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-

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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 a single power supply at 120 V input, a maximum of 514 W of PoE power is available. With a single power supply at 240 V input, a maximum of 814 W of PoE power is available.

<b>Safety</b>	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825
<b>Emissions</b>	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
<b>Immunity</b>	<p><b>EN</b> EN 55024, CISPR 24</p> <p><b>ESD</b> IEC 61000-4-2</p> <p><b>Radiated</b> IEC 61000-4-3; 3 V/m</p> <p><b>EFT/Burst</b> IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)</p> <p><b>Surge</b> IEC 61000-4-5; 1 kV/2 kV AC</p> <p><b>Conducted</b> IEC 61000-4-6; 3 V</p> <p><b>Power frequency magnetic field</b> IEC 61000-4-8; 1 A/m, 50 or 60 Hz</p> <p><b>Voltage dips and interruptions</b> IEC 61000-4-11; &gt;95% reductions, 0.5 period; 30% reduction, 25 periods</p> <p><b>Harmonics</b> EN 61000-3-2, IEC 61000-3-2</p> <p><b>Flicker</b> EN 61000-3-3, IEC 61000-3-3</p>
<b>Management</b>	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu
<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.

### Aruba 3800 24SFP 2SFP+ Switch (J9584A)

<b>Included accessories</b>	1 Aruba 3800 Switch Fan Tray (J9582A) 1 HPE X311 400W 100 240VAC to 12VDC Power Supply (J9581A)
<b>Ports</b>	24 SFP 100/1000 Mbps ports (IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 100BASE-TX: half or full; 1000BASE-T: full only 2 fixed 1000/10000 SFP+ ports
<b>Additional ports and slots</b>	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot
<b>Power supplies</b>	2 power supply slots 1 minimum power supply required includes: 1 x J9581A (HPE X311 400W 100 240VAC to 12VDC Power Supply)
<b>Fan tray</b>	includes: 1 x J9582A 1 fan tray slot
<b>Physical characteristics</b>	<p><b>Dimensions</b> 17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)</p> <p><b>Weight</b> 16.01 lb (7.26 kg)</p>
<b>Memory and processor</b>	<b>Processor</b> HPE ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 18 MB dynamic
<b>Mounting and enclosure</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only

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<b>Performance</b>	<b>1000 Mb Latency</b>	< 2.8 $\mu$ s (LIFO 64-byte packets)
	<b>10 Gbps Latency</b>	< 1.9 $\mu$ s (LIFO 64-byte packets)
	<b>Throughput</b>	up to 65.4 Mpps (64-byte packets)
	<b>Switching capacity</b>	88 Gbps
	<b>Routing table size</b>	10000 entries (IPv4)
	<b>MAC address table size</b>	65500 entries
<b>Environment</b>	<b>Operating temperature</b>	32°F to 113°F (0°C to 45°C)
	<b>Operating relative humidity</b>	15% to 95% @ 104°F (40°C), noncondensing
	<b>Nonoperating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Nonoperating/Storage relative humidity</b>	15% to 90% @ 149°F (65°C), noncondensing
	<b>Altitude</b>	up to 10,000 ft (3 km)
	<b>Acoustic</b>	Power: 36 dB, Pressure: 25 dB
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b>	434 BTU/hr (457.87 kJ/hr)
	<b>Voltage</b>	100 - 127 / 200 - 240 VAC, rated
	<b>Current</b>	6/3 A
	<b>Idle power</b>	55 W
	<b>Maximum power rating</b>	127 W
	<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>
	<b>Safety</b>	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825
<b>Emissions</b>	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	
<b>Immunity</b>	<b>EN</b>	EN 55024, CISPR 24
	<b>ESD</b>	IEC 61000-4-2
	<b>Radiated</b>	IEC 61000-4-3; 3 V/m
	<b>EFT/Burst</b>	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	<b>Surge</b>	IEC 61000-4-5; 1 kV/2 kV AC
	<b>Conducted</b>	IEC 61000-4-6; 3 V
	<b>Power frequency magnetic field</b>	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	<b>Voltage dips and interruptions</b>	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	<b>Harmonics</b>	EN 61000-3-2, IEC 61000-3-2
	<b>Flicker</b>	EN 61000-3-3, IEC 61000-3-3
<b>Management</b>	Aruba AirWave Network Management; IMC – Intelligent Management Center; Command-line interface; Web browser; Configuration menu	
<b>NOTES</b>	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later, for example, J9142B, J8177C).	

## Technical Specifications

**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)

**BGP**

- RFC 1997 BGP Communities Attribute
- RFC 2918 Route Refresh Capability
- RFC 4271 A Border Gateway Protocol 4 (BGP-4)
- RFC 4456 BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP)
- RFC 4724 Graceful Restart Mechanism for BGP
- RFC 5492 Capabilities Advertisement with BGP-4

**Denial of service protection** CPU DoS Protection

**Device Management**

- RFC 1591 DNS (client)
- RFC 2576 (Coexistence between SNMP V1, V2, V3)
- RFC 2579 (SMIv2 Text Conventions)
- RFC 2580 (SMIv2 Conformance)
- RFC 3416 (SNMP Protocol Operations v2)
- RFC 3417 (SNMP Transport Mappings)
- HTML and telnet management

**General Protocols**

- IEEE 802.1ad Q-in-Q
- IEEE 802.1AX-2008 Link Aggregation
- IEEE 802.1D MAC Bridges
- IEEE 802.1p Priority
- IEEE 802.1Q VLANs
- IEEE 802.1s Multiple Spanning Trees
- IEEE 802.1v VLAN classification by Protocol and Port
- IEEE 802.1w Rapid Reconfiguration of Spanning Tree
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- IEEE 802.3af Power over Ethernet
- IEEE 802.3x Flow Control
- RFC 768 UDP
- RFC 783 TFTP Protocol (revision 2)
- RFC 792 ICMP
- RFC 793 TCP
- RFC 826 ARP
- RFC 854 TELNET
- RFC 868 Time Protocol
- RFC 951 BOOTP
- RFC 1058 RIPv1
- RFC 1350 TFTP Protocol (revision 2)
- RFC 1519 CIDR
- RFC 1542 BOOTP Extensions
- RFC 1918 Address Allocation for Private Internet
- RFC 2030 Simple Network Time Protocol (SNTP) v4
- RFC 2131 DHCP
- RFC 2453 RIPv2
- RFC 2548 (MS-RAS-Vendor only)
- RFC 3046 DHCP Relay Agent Information Option
- RFC 3575 IANA Considerations for RADIUS



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RFC 3576 Ext to RADIUS (CoA only)  
RFC 3768 VRRP  
RFC 4675 RADIUS VLAN & Priority  
RFC 5798 VRRP (exclude Accept Mode and sub-sec timer)  
RFC 5905 Network Time Protocol Version 4: Protocol and Algorithms Specification  
UDLD (Uni-directional Link Detection)

### IP Multicast

RFC 3376 IGMPv3  
RFC 3973 PIM Dense Mode  
RFC 4601 PIM Sparse Mode

### IPv6

RFC 1981 IPv6 Path MTU Discovery  
RFC 2080 RIPng for IPv6  
RFC 2081 RIPng Protocol Applicability Statement  
RFC 2082 RIP-2 MD5  
RFC 2375 IPv6 Multicast Address Assignments  
RFC 2460 IPv6 Specification  
RFC 2464 Transmission of IPv6 over Ethernet Networks  
RFC 2710 Multicast Listener Discovery (MLD) for IPv6  
RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only)  
RFC 3019 MLDv1 MIB  
RFC 3315 DHCPv6 (client only)  
RFC 3484 Default Address Selection for IPv6  
RFC 3587 IPv6 Global Unicast Address Format  
RFC 3596 DNS Extension for IPv6  
RFC 3810 MLDv2 (host joins only)  
RFC 4022 MIB for TCP  
RFC 4087 IP Tunnel MIB  
RFC 4113 MIB for UDP  
RFC 4213 Basic Transition Mechanisms for IPv6 Hosts and Routers  
RFC 4251 SSHv6 Architecture  
RFC 4252 SSHv6 Authentication  
RFC 4253 SSHv6 Transport Layer  
RFC 4254 SSHv6 Connection  
RFC 4291 IP Version 6 Addressing Architecture  
RFC 4293 MIB for IP  
RFC 4294 IPv6 Node Requirements  
RFC 4419 Key Exchange for SSH  
RFC 4443 ICMPv6  
RFC 4541 IGMP & MLD Snooping Switch  
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  
RFC 5453 Reserved IPv6 Interface Identifiers  
RFC 5519 Multicast Group Membership Discovery MIB (MLDv2 only)  
RFC 5722 Handling of Overlapping IPv6 Fragments  
RFC 6620 FCFS SAVI  
draft-ietf-savi-mix

### MIBs

IEEE 802.1ap (MSTP and STP MIB's only)  
IEEE 8021-Bridge-MIB (2008)  
IEEE 8021-Q-Bridge-MIB (2008)

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RFC 1155 Structure & ID of Mgmt Info for TCP/IP Internets  
RFC 1213 MIB II  
RFC 1493 Bridge MIB  
RFC 1724 RIPv2 MIB  
RFC 1850 OSPFv2 MIB  
RFC 2021 RMONv2 MIB  
RFC 2096 IP Forwarding Table MIB  
RFC 2578 Structure of Management Information Version 2 (SMIv2)  
RFC 2613 SMON MIB  
RFC 2618 RADIUS Client MIB  
RFC 2620 RADIUS Accounting MIB  
RFC 2665 Ethernet-Like-MIB  
RFC 2668 802.3 MAU MIB  
RFC 2674 802.1p and IEEE 802.1Q Bridge MIB  
RFC 2737 Entity MIB (Version 2)  
RFC 2787 VRRP MIB  
RFC 2863 The Interfaces Group MIB  
RFC 2925 Ping MIB  
RFC 2932 IP (Multicast Routing MIB)  
RFC 2933 IGMP MIB  
RFC 4836 Managed Objects for 802.3 Medium Attachment Units (MAU)

<b>Network Management</b>	IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) RFC 3176 sFlow RFC 3411 SNMP Management Frameworks RFC 3412 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP) RFC 3413 Simple Network Management Protocol (SNMP) Applications 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 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP) RFC 5424 Syslog Protocol ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3 XRMON
<b>OSPF</b>	RFC 2328 OSPFv2 RFC 3101 OSPF NSSA RFC 3623 Graceful OSPF Restart (Unplanned Outages only) RFC 5340 OSPFv3 for IPv6
<b>QoS/CoS</b>	RFC 2474 DiffServ Precedence, including 8 queues/port RFC 2475 DiffServ Architecture RFC 2597 DiffServ Assured Forwarding (AF) RFC 2598 DiffServ Expedited Forwarding (EF)
<b>Security</b>	IEEE 802.1X Port Based Network Access Control RFC 1321 The MD5 Message-Digest Algorithm RFC 1492 TACACS+ RFC 2818 HTTP Over TLS

## Technical Specifications

RFC 2865 RADIUS (client only)

RFC 2866 RADIUS Accounting

RFC 3579 RADIUS Support For Extensible Authentication Protocol (EAP)

Secure Sockets Layer (SSL)

SSHv2 Secure Shell

## Accessories

### Aruba 3800 Switch Series accessories

#### Modules

Aruba 3800 4-port Stacking Module J9577A

#### Cables

Aruba 3800/3810M 0.5m Stacking Cable J9578A

Aruba 3800/3810M 1m Stacking Cable J9665A

Aruba 3800/3810M 3m Stacking Cable J9579A

#### Power Supply

HPE X311 400W 100 240VAC to 12VDC Power Supply J9581A

HPE X312 1000W 100 240VAC to 54VDC Power Supply J9580A

#### Fan Tray

Aruba 3800 Switch Fan Tray J9582A

#### Aruba 3800 24G PoE+ 2SFP+ Switch (J9573A)

HPE X132 10G SFP+ LC LRM Transceiver J9152A

HPE X132 10G SFP+ LC ER Transceiver J9153A

HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable J9281B

HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable J9283B

HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable J9285B

HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable J9300A

HP 10G X244 XFP to SFP+ 3m Direct Attach Copper Cable J9301A

HP 10G X244 XFP to SFP+ 5m Direct Attach Copper Cable J9302A

HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable QK733A

HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable QK734A

HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable QK735A

HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable QK736A

HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable QK737A

#### Aruba 3800 48G PoE+ 4SFP+ Switch (J9574A)

HPE X132 10G SFP+ LC LR Transceiver J9151A

HPE X132 10G SFP+ LC LRM Transceiver J9152A

HPE X132 10G SFP+ LC ER Transceiver J9153A

HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable J9281B

HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable J9283B

HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable J9285B

HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable J9300A

HP 10G X244 XFP to SFP+ 3m Direct Attach Copper Cable J9301A

## Accessories

HP 10G X244 XFP to SFP+ 5m Direct Attach Copper Cable	J9302A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A

### Aruba 3800 24G 2SFP+ Switch (J9575A)

HPE X132 10G SFP+ LC LR Transceiver	J9151A
HPE X132 10G SFP+ LC LRM Transceiver	J9152A
HPE X132 10G SFP+ LC ER Transceiver	J9153A
HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable	J9300A
HP 10G X244 XFP to SFP+ 3m Direct Attach Copper Cable	J9301A
HP 10G X244 XFP to SFP+ 5m Direct Attach Copper Cable	J9302A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A

### Aruba 3800 48G 4SFP+ Switch (J9576A)

HPE X132 10G SFP+ LC LR Transceiver	J9151A
HPE X132 10G SFP+ LC LRM Transceiver	J9152A
HPE X132 10G SFP+ LC ER Transceiver	J9153A
HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable	J9300A
HP 10G X244 XFP to SFP+ 3m Direct Attach Copper Cable	J9301A
HP 10G X244 XFP to SFP+ 5m Direct Attach Copper Cable	J9302A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A

### Aruba 3800 24SFP 2SFP+ Switch (J9584A)

HPE X132 10G SFP+ LC LR Transceiver	J9151A
HPE X132 10G SFP+ LC LRM Transceiver	J9152A

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**Accessories**

HPE X132 10G SFP+ LC ER Transceiver	J9153A
HPE X111 100M SFP LC FX Transceiver	J9054C
HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable	J9300A
HP 10G X244 XFP to SFP+ 3m Direct Attach Copper Cable	J9301A
HP 10G X244 XFP to SFP+ 5m Direct Attach Copper Cable	J9302A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A

## Accessory Product Details

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

<b>Aruba 3800 4-port Stacking Module</b> (J9577A)	<b>Management</b>  <b>Services</b>	HP PCM+; HP PCM; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)
		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 X410 1U Universal 4-post Rackmount Kit</b> (J9583A)	<b>NOTES</b>	<p>The rack mounting kit supports the 1U, full width switches in the following switch series and the power supply: V1810 Series, E2510 Series, E2520 Series, E2610 Series, E2810 Series, E2910 Series, E3500 Series, and the E620 Power Supply</p> <p>This universal rack mounting kit is design to fit the following racks: HP 10K 10642, HP 10K 10842, Panduit CN, Panduit CS, Wrightline Vantage S2, APC Netshelter 600mm, and APC Netshelter 800mm. It may well fit many other brands and models too.</p>
	<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 X121 1G SFP LC SX Transceiver</b> (J4858C)	<b>Ports</b>  <b>Physical characteristics</b>  <b>Environment</b>  <b>Electrical characteristics</b>  <b>Cabling</b>	1 LC 1000BASE-SX port; Duplex: full only Dimensions: 2.24(d) x 0.54(w) x 0.48(h) in. (5.69 x 1.37 x 1.22 cm) Weight: 0.04 lb. (0.02 kg) Transceiver form factor: SFP Operating temperature: 32°F to 158°F (0°C to 70°C) Operating relative humidity: 5% to 85%, noncondensing Nonoperating/Storage temperature: -40°F to 203°F (-40°C to 85°C) Altitude: up to 10,000 ft. (3 km) Power consumption typical: 0.4 W Power consumption maximum: 0.7 W
A small form-factor pluggable (SFP) Gigabit SX transceiver that provides a full-duplex Gigabit solution up to 550 m on multimode fiber.		Type: <ul style="list-style-type: none"> <li>• 62.5/125 <math>\mu\text{m}</math> or 50/125 <math>\mu\text{m}</math> (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively;</li> </ul> Maximum distance: <ul style="list-style-type: none"> <li>• 2-220 m (62.5 <math>\mu\text{m}</math> core diameter, 160 MHz*km bandwidth)</li> <li>• 2-275 m (62.5 <math>\mu\text{m}</math> core diameter, 200 MHz*km bandwidth)</li> <li>• 2-500 m (50 <math>\mu\text{m}</math> core diameter, 400 MHz*km bandwidth)</li> <li>• 2-550 m (50 <math>\mu\text{m}</math> core diameter, 500 MHz*km bandwidth)</li> </ul> Cable length: 2-550m Fiber type: Multi Mode

## Accessory Product Details

	<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 X121 1G SFP LC LX Transceiver</b> (J4859C)  HP X121 1G SFP LC LX Transceiver: An SFP format gigabit transceiver with LC connectors using LX technology.	<b>Ports</b>  <b>Physical characteristics</b>  <b>Environment</b>  <b>Cabling</b>	1 LC 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX); Duplex: full only Dimensions: 2.24(d) x 0.54(w) x 0.486(h) in. (5.69 x 1.37 x 1.23 cm) Weight: 0.04 lb. (0.02 kg) Operating temperature: 32°F to 158°F (0°C to 70°C) Operating relative humidity: 0% to 85%, noncondensing Nonoperating/Storage temperature: -40°F to 212°F (-40°C to 100°C) Altitude: up to 10,000 ft. (3 km) Type: <ul style="list-style-type: none"> <li>• Either single mode or multimode; 62.5/125 μm or 50/125 μm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively; Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1;</li> </ul> <p>Maximum distance:</p> <ul style="list-style-type: none"> <li>• 2-550 m (multimode 62.5 μm core diameter, 500 MHz*km bandwidth)</li> <li>• 2-550 m (multimode 50 μm core diameter, 400 MHz*km bandwidth)</li> <li>• 2-550 m (multimode 50 μm core diameter, 500 MHz*km bandwidth)</li> <li>• 2-10,000 m (single-mode fiber)</li> </ul>
	<b>NOTES</b>	<b>A mode conditioning patch cord may be needed in some multimode fiber installations.</b>
		<b>Wavelength: 1310nm</b>
		<b>Power Consumption: &lt; 500mW Typical</b>
	<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.
A small form-factor pluggable (SFP) Gigabit LH transceiver that provides a full-duplex Gigabit solution up to 70 km on single-mode fiber.	<b>HPE X121 1G SFP LC LH Transceiver</b> (J4860C)  <b>Physical characteristics</b>  <b>Environment</b>  <b>Cabling</b>	1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics); Duplex: full only Dimensions: 2.17(d) x 0.60(w) x 0.46(h) in. (5.5 x 1.53 x 1.18 cm) Weight: 0.04 lb. (0.02 kg) Operating temperature: -40°F to 185°F (-40°C to 85°C) Operating relative humidity: 0% to 95% @ 77°F (25°C), noncondensing Nonoperating/Storage temperature: -40°F to 185°F (-40°C to 85°C) Altitude: up to 10,000 ft. (3 km) Cable type:



## Accessory Product Details

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

Maximum distance:

- 10-70,000 m (single-mode fiber)

### NOTES

Power consumption is 0.8 watts typical with 1 watt maximum at 100% utilization.

For distances less than 20 km, a 10 dB attenuator must be used.

For distances between 20 km and 40 km, a 5 dB attenuator must be used.

Attenuators can be purchased from most cable vendors.

### 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.

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

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

#### Ports

1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T); Duplex: full only

#### Physical characteristics

Dimensions: 2.71(d) x 0.54(w) x 0.55(h) in. (6.88 x 1.37 x 1.4 cm)  
Weight: 0.06 lb. (0.03 kg)

#### Environment

Operating temperature: 32°F to 158°F (0°C to 70°C); with 100 LFM airflow over the SFP module

Operating relative humidity: 0% to 95% @ 75°F (25°C), noncondensing

Nonoperating/Storage temperature: -40°F to 185°F (-40°C to 85°C)

Nonoperating/Storage relative humidity: 0% to 95% @ 77°F (25°C), noncondensing

Altitude: up to 10,000 ft. (3000 km)

#### Cabling

Cable type:

1000BASE-T: Category 5 (5E or better recommended), 100 Ω differential 4-pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;

Maximum distance:

- 100 m

### NOTES

Power consumption is nominally 1 watt.

For supported platforms and minimum software requirements to support this product, see the document titled "Support for the J8177C 1000Base-T Mini-GBIC" on the "HP Mini-GBICs and SFPs" Manuals Web page.

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

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

Important: The earlier J8177B does not support 100 Mb operation.

## Accessory Product Details

When used in the Switch gl 20-Port 10/100/1000 Module (J4908A), the J8177C mini-GBIC can be installed in either the upper or lower mini-GBIC port, but will block access to the other port.

### Services

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

### HP X122 1G SFP LC BX-D Transceiver (J9142B)

A small form-factor pluggable (SFP) Gigabit-BX (bi-directional) "downstream" transceiver that provides a full-duplex Gigabit solution up to 10 km on one strand of single-mode fiber. The J9142B connects to the J9143B "upstream" transceiver, or to any IEEE-standard 1000BASE-BX10-U ("upstream") device.

### Ports

1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-D); Duplex: full only

### Physical characteristics

#### Dimensions

2.19(d) x 0.54(w) x 0.46(h) in. (5.57 x 1.37 x 1.18 cm)

#### Weight

0.04 lb. (0.02 kg)

### Environment

#### Operating temperature

32°F to 158°F (0°C to 70°C)

#### Operating relative humidity

0% to 95%, non-condensing

#### Non-operating/Storage temperature

-40°F to 185°F -40°C to 85°C)

### Cabling

#### Type:

Single-mode fiber optic, complying with ITU-T G.652;

#### Maximum distance:

- 0.5-10,000 m (single-mode fiber)

### NOTES

Transmit wavelength: 1490 nm. Receive wavelength: 1310 nm.

Power consumption is 1 watt maximum.

For supported platforms and minimum software requirements to support this product, see the document titled "Support for the HP BX Transceivers" on the "HP Mini-GBICs and SFPs" Manuals Web page. The J9142B connects to the J9143B "upstream" transceiver, or to any IEEE-standard 1000BASE-BX10-U ("upstream") device. (A 1000-BX-D transceiver can only connect to a 1000-BX-U product. You cannot connect two 1000-BX-D transceivers together.)

### 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 X122 1G SFP LC BX-U Transceiver (J9143B)

A small form-factor pluggable (SFP) Gigabit-BX (bi-directional) "upstream" transceiver that provides a full-duplex Gigabit solution up to 10 km on one strand of

### Ports

1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-U); Duplex: full only

### Physical characteristics

#### Dimensions

2.19(d) x 0.54(w) x 0.46(h) in. (5.57 x 1.37 x 1.18 cm)

#### Weight

0.04 lb. (0.02 kg)

### Environment

#### Operating temperature

32°F to 158°F (0°C to 70°C)

#### Operating relative humidity

0% to 95%, non-condensing

#### Non-operating/

-40°F to 185°F -40°C to 85°C)

## Accessory Product Details

single-mode fiber. The J9143B connects to the J9142B "downstream" transceiver, or to any IEEE-standard 1000BASE-BX10-D ("downstream") device.

### Cabling

#### Storage temperature

Type:  
Single-mode fiber optic, complying with ITU-T G.652;

Maximum distance:

- 0.5-10,000 m (single-mode fiber)

### NOTES

Transmit wavelength: 1310 nm. Receive wavelength: 1490 nm.  
For supported platforms and minimum software requirements to support this product, see the document titled "Support for the HP BX Transceivers" on the "HP Mini-GBICs and SFPs" Manuals Web page.  
The J9143B connects to the J9142B "downstream" transceiver, or to any IEEE-standard 1000BASE-BX10-D ("downstream") device. (A 1000-BX-U transceiver can only connect to a 1000-BX-D product. You cannot connect two 1000-BX-U transceivers together.)  
Power consumption is 1 watt maximum.

### 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.

### HPE X132 10G SFP+ LC SR Transceiver (J9150A)

#### Ports

1 LC 10-GbE port (IEEE 802.3ae Type 10Gbase-SR); Duplex: full only

A 10-Gigabit transceiver in SFP+ form-factor that supports the 10-Gigabit SR standard, providing 10-Gigabit connectivity up to 300 m on multimode fiber.

#### Connectivity

**Connector type** LC

#### Physical characteristics

**Wavelength** 850 nm

**Dimensions** 2.19(d) x 0.54(w) x 0.47(h) in. (5.57 x 1.38 x 1.19 cm)

**Weight** 0.04 lb. (0.02 kg)

**Transceiver form factor** SFP+

#### Environment

**Operating temperature** 32°F to 158°F (0°C to 70°C)

**Operating relative humidity** 0% to 85%, noncondensing

**Nonoperating/Storage temperature** -40°F to 185°F (-40°C to 85°C)

**Altitude** up to 10,000 ft. (3 km)

#### Electrical characteristics

**Power consumption typical** 0.6 W

**Power consumption maximum** 0.8 W

#### Cabling

Cable type:  
62.5/125  $\mu\text{m}$  or 50/125  $\mu\text{m}$  (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2

Type A1b or A1a, respectively;

Maximum distance:

- 2-26m with 62.5  $\mu\text{m}$  multimode cable @ 160 MHz\*km
- 2-33m with 62.5  $\mu\text{m}$  multimode cable @ 200 MHz\*km
- 2-66m with 50  $\mu\text{m}$  multimode cable @ 400 MHz\*km

## Accessory Product Details

- 2-82m with 50  $\mu$ m multimode cable @ 500 MHz\*km
- 2-300m with 50  $\mu$ m multimode cable @ 2000 MHz\*km

**Cable length** 2-300m  
**Fiber type** Multi Mode

### NOTES

For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. Angled Physical Contact (APC) is not recommended.

### 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.

### HPE X132 10G SFP+ LC LR Transceiver (J9151A)

A 10-Gigabit transceiver in SFP+ form-factor that supports the 10-Gigabit LR standard, providing 10-Gigabit connectivity up to 10 km on single-mode fiber.

### Ports

1 LC 10-GbE port (IEEE 802.3ae Type 10Gbase-LR); Duplex: full only

### Connectivity

**Connector type** LC

### Physical characteristics

**Wavelength** 1310 nm

**Dimensions** 2.19(d) x 0.54(w) x 0.47(h) in. (5.57 x 1.38 x 1.19 cm)

**Weight** 0.04 lb. (.02 kg)

**Transceiver form factor** SFP+

### Environment

**Operating temperature** 32°F to 158°F (0°C to 70°C)

**Operating relative humidity** 0% to 85%, noncondensing

**Nonoperating/Storage temperature** -40°F to 185°F (-40°C to 85°C)

**Altitude** up to 10,000 ft. (3 km)

### Electrical characteristics

**Power consumption typical** 0.9 W

**Power consumption maximum** 1 W

### Cabling

Cable type:  
 Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1;  
 Maximum distance:

- 2m-10km with 9/125  $\mu$ m single-mode cable

**Cable length** 2m to 10km

**Fiber type** Single Mode

### NOTES

Conditioning patch cord cables are not supported.  
 For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. Angled Physical Contact (APC) is not recommended.

### 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.

### HPE X132 10G SFP+ LC Ports

1 LC 10-GbE port (IEEE 802.3aq Type 10Gbase-LRM); Duplex: full only

## Accessory Product Details

<b>LRM Transceiver (J9152A)</b>  A 10-Gigabit transceiver in SFP+ form-factor that supports the 10-Gigabit LRM standard, for 10-Gigabit connectivity up to 220 m on legacy multimode fiber.	<b>Connectivity</b>	<b>Connector type</b>	LC
	<b>Physical characteristics</b>	<b>Wavelength</b>	1310 nm
		<b>Dimensions</b>	2.19(d) x 0.54(w) x 0.47(h) in. (5.57 x 1.38 x 1.19 cm)
		<b>Weight</b>	0.04 lb. (.02 kg)
	<b>Environment</b>	<b>Transceiver form factor</b>	SFP+
		<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)
		<b>Operating relative humidity</b>	0% to 85%, noncondensing
		<b>Nonoperating/Storage temperature</b>	-40°F to 185°F (-40°C to 85°C)
	<b>Electrical characteristics</b>	<b>Altitude</b>	up to 10,000 ft. (3 km)
		<b>Power consumption typical</b>	0.7 W
<b>Power consumption maximum</b>		1 W	
<b>Cabling</b>	Cable type: 62.5/125 $\mu\text{m}$ or 50/125 $\mu\text{m}$ (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively (a mode conditioning patch cord may be needed in some multimode fiber installations); Maximum distance: <ul style="list-style-type: none"> <li>• 0.5-220m with 62.5 <math>\mu\text{m}</math> multimode cable @ 160/500 MHz*km</li> <li>• 0.5-220m with 62.5 <math>\mu\text{m}</math> multimode cable @ 200/500 MHz*km</li> <li>• 0.5-100m with 50 <math>\mu\text{m}</math> multimode cable @ 400/400 MHz*km</li> <li>• 0.5-220m with 50 <math>\mu\text{m}</math> multimode cable @ 500/500 MHz*km</li> <li>• 0.5-220m with 50 <math>\mu\text{m}</math> multimode cable @ 1500/500 MHz*km</li> </ul>		
<b>NOTES</b>	<b>Cable length</b>	0.5m to 220m	
	<b>Fiber type</b>	Multi Mode	
	For OM3 cable (50 $\mu\text{m}$ multimode @ 1500/500 MHz*km), a mode-conditioning patch cord is not required. Other multimode cables may require mode-conditioning patch cords to achieve the maximum distances listed above. For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. Angled Physical Contact (APC) is not recommended.		
<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 X132 10G SFP+ LC ER Transceiver (J9153A)</b>  The SFP+ ER Transceiver will transmit 10Gbps over	<b>Ports</b>	1 LC 10-GbE port (IEEE 802.3ae Type 10Gbase-ER); Duplex: full only	
	<b>Connectivity</b>	<b>Connector type</b>	LC
	<b>Physical characteristics</b>	<b>Wavelength</b>	1550 nm
<b>Dimensions</b>		2.22(d) x 0.55(w) x 0.47(h) in. (5.65 x 1.39 x 1.19 cm)	

## Accessory Product Details

up to 40km using standard OM3 fiber cable. This product expands the HPE Networking transceiver portfolio for connections from 0m to 40km. Use only genuine HPE transceivers with your HPE Networking equipment to ensure reliability and support.

<b>Environment</b>	<b>Weight</b>	.04 lb., Fully loaded	
	<b>Transceiver form factor</b>	SFP+	
	<b>Operating temperature</b>	32°F to 158°F (0°C to 70°C)	
	<b>Operating relative humidity</b>	5% to 95%, noncondensing	
	<b>Nonoperating/Storage temperature</b>	-40°F to 185°F (-40°C to 85°C)	
	<b>Nonoperating/Storage relative humidity</b>	5% to 95%, noncondensing	
	<b>Altitude</b>	up to 10,000 ft. (3 km)	
	<b>Electrical characteristics</b>	<b>Power consumption typical</b>	1.3 W
		<b>Power consumption maximum</b>	1.5 W
	<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</li> </ul>	
<b>NOTES</b>	<b>Fiber type</b>	Single Mode	
	Check switch release notes for minimum version of software required to support this transceiver. Some switches have limits as to how many of this particular transceiver can be installed. See the release notes of the switch software/firmware being used for more details.		
<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 LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable (AJ833A)**

<b>Cabling</b>	<b>Cable type:</b>	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
	<b>Maximum distance:</b>	10Gbps Transfer Rate (Ethernet): 300m
<b>NOTES</b>	<b>Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 <math>\mu</math>m fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.</b> <ul style="list-style-type: none"> <li>• Dimensions: Core diameter: 50 <math>\pm</math> 3.0<math>\mu</math>m Cladding diameter: 125 <math>\pm</math> 2.0<math>\mu</math>m Coating diameter: 245 <math>\pm</math> 10<math>\mu</math>m</li> <li>• Optical glass: Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.</li> <li>• 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.</li> <li>• CABLE: The cable is duplex zipcord graded index 50/125<math>\mu</math>m</li> </ul>	

## Accessory Product Details

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.

**HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable (AJ834A)**

### Cabling

#### Cable type:

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

#### Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

### NOTES

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

- Dimensions: Core diameter: 50  $\pm$  3.0 $\mu$ m Cladding diameter: 125  $\pm$  2.0 $\mu$ m Coating diameter: 245  $\pm$  10 $\mu$ 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

### 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

## Accessory Product Details

times in your area, please contact your local Hewlett Packard Enterprise sales office.

**HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable**  
(AJ835A)

**Cabling**

**Cable type:**

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

**Maximum distance:**

10Gbps Transfer Rate (Ethernet): 300m

**NOTES**

**Cable Specs:** Tight buffered duplex fiber optic multimode OM3 50/125  $\mu\text{m}$  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.

**HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable**  
(AJ836A)

**Cabling**

**Cable type:**

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

**Maximum distance:**

10Gbps Transfer Rate (Ethernet): 300m

**NOTES**

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



## Accessory Product Details

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

**HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable (AJ837A)**

### Cabling

#### Cable type:

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

#### Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

### NOTES

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

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

## Accessory Product Details

- 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.

**HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable** (AJ838A)

### Cabling

#### Cable type:

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

#### Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

### NOTES

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

- Dimensions: Core diameter: 50  $\pm$  3.0 $\mu$ m Cladding diameter: 125  $\pm$  2.0 $\mu$ m Coating diameter: 245  $\pm$  10 $\mu$ 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

### 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.

**HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber**

### Cabling

#### Cable type:

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

## Accessory Product Details

### Optic Cable (AJ839A)

distances of up to 300 m;

#### NOTES

#### Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

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

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

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

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

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

## Accessory Product Details

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.

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

### Services

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

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

## Accessory Product Details

### Services

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

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

### Services

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

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

### Services

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

## Accessory Product Details

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

### HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A) NOTES

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

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

### Services

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

### HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable (J9281B)

#### Connectivity

Length 3.28 ft. (1 m)

#### Physical characteristics

Weight 0.24 lb. (0.11 kg) the cable with an SFP+ transceiver at each end of the cable

#### Environment

Operating temperature 32°F to 158°F (0°C to 70°C)

Operating relative humidity 5% to 95%, noncondensing

Nonoperating/Storage temperature 14°F to 185°F (-10°C to 85°C)

Nonoperating/Storage relative humidity 5% to 95%, noncondensing

Altitude up to 10,000 ft. (3 km)

#### Electrical characteristics

Notes 0.04 watts maximum per transceiver end

#### NOTES

##### Electrical Properties

- Cable Characteristic Impedance: 100 ohms
- Crosstalk between pairs: 2% max
- Time delay: 1.31 nsec/ft

##### Physical Properties

- Cable Diameter: 0.180"
- Minimum Cable Bend Radius: 1.0"

### Services

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

## Accessory Product Details

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 X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (J9283B)</b>	<b>Connectivity</b>	Length	10 ft. (3 m)
	<b>Physical characteristics</b>	Weight	.49 lb. (0.22 kg), Fully loaded the cable with an SFP+ transceiver at each end of the cable
		<b>Environment</b>	Operating temperature
	Operating relative humidity		5% to 95%, noncondensing
	Nonoperating/Storage temperature		14°F to 185°F (-10°C to 85°C)
	Nonoperating/Storage relative humidity		5% to 95%, noncondensing
	Altitude		up to 10,000 ft. (3 km)
	<b>Electrical characteristics</b>	Notes	0.04 watts maximum per transceiver end
	<b>NOTES</b>	<b>Electrical Properties</b>	
		<ul style="list-style-type: none"> <li>• Cable Characteristic Impedance: 100 ohms</li> <li>• Crosstalk between pairs: 2% max</li> <li>• Time delay: 1.31 nsec/ft</li> </ul>	
<b>Services</b>	<b>Physical Properties</b>		
	<ul style="list-style-type: none"> <li>• Cable Diameter: 0.180"</li> <li>• Minimum Cable Bend Radius: 1.0"</li> </ul>		
		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 X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable (J9285B)</b>	<b>Connectivity</b>	Length	22.97 ft. (7 m)
	<b>Physical characteristics</b>	Weight	1.02 lb., Fully loaded the cable with an SFP+ transceiver at each end of the cable
		<b>Environment</b>	Operating temperature
	Operating relative humidity		5% to 95%, noncondensing
	Nonoperating/Storage temperature		14°F to 185°F (-10°C to 85°C)
	Nonoperating/Storage relative humidity		5% to 95%, noncondensing
	Altitude		up to 10,000 ft. (3 km)
	<b>Electrical characteristics</b>	Notes	0.04 watts maximum per transceiver end
	<b>NOTES</b>	<b>Electrical Properties</b>	
		<ul style="list-style-type: none"> <li>• Cable Characteristic Impedance: 100 ohms</li> <li>• Crosstalk between pairs: 2% max</li> <li>• Time delay: 1.31 nsec/ft</li> </ul>	
<b>Services</b>	<b>Physical Properties</b>		
	<ul style="list-style-type: none"> <li>• Cable Diameter: 0.180"</li> <li>• Minimum Cable Bend Radius: 1.0"</li> </ul>		
		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	





## Accessory Product Details

one end and an SFP+ connector attached on the other end. This cable provides a low price connectivity option between switches/servers/storage to interconnect XFP and SFP+ form factors.

### NOTES Services

Nonoperating/Storage temperature 32°F to 158°F (0°C to 70°C)

Nonoperating/Storage relative humidity 5% to 95%, noncondensing

Altitude up to 10,000 ft. (3 km)

**XFP end consumes 2 watts SFP+ end consumes 0.036 watts**

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.

### HPE X111 100M SFP LC FX Transceiver (J9054C)

<b>Ports</b>	1 LC 100BASE-FX port (IEEE 802.3u Type 100BASE-FX); Duplex: half or full
<b>Physical characteristics</b>	<p>Dimensions 2.7(d) x 0.54(w) x 0.48(h) in. (6.86 x 1.38 x 1.22 cm)</p> <p>Weight 0.06 lb. (0.03 kg)</p>
<b>Environment</b>	<p>Operating temperature 32°F to 158°F (0°C to 70°C)</p> <p>Operating relative humidity 5% to 95%</p> <p>Nonoperating/Storage temperature -40°F to 185°F (-40°C to 85°C)</p> <p>Nonoperating/Storage relative humidity 5% to 85%</p> <p>Altitude up to 10,000 ft. (3 km)</p>
<b>Cabling</b>	<p>Cable type: 62.5/125 <math>\mu</math>m or 50/125 <math>\mu</math>m (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively;</p> <p>Maximum distance:</p> <ul style="list-style-type: none"> <li>• 2 km (full duplex) or 412 m (half duplex)</li> </ul>
<b>NOTES</b>	<p>Transmitter wavelength: 1310nm</p> <p>Power consumption is 1.1 watt maximum.</p> <p>For supported platforms and minimum software requirements to support this product, see the document titled "Support for the J9054C 100-FX SFP-LC Transceiver" on the "ProCurve Mini-GBICs and SFPs" Manuals Web page.</p>
<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>

## Summary of Changes

Date	Version History	Action	Description of Change
07-Nov-2016	From Version 23 to 24	Changed	Features and Benefits updated
01-Aug-2016	From Version 22 to 23	Changed	Adding #AC3 Option on Configuration section.
06-June-2016	From Version 21 to 22	Changed	SKU descriptions updated. Product overview, Features and benefits, Technical Specifications and Accessories updated
08-Jan-16	From Version 20 to 21	Changed	URLs updated
01-Dec-15	From Version 19 to 20	Changed	QuickSpecs name changed to Aruba 3800 Switch Series Product overview, Features and benefits, Technical Specifications and Accessories updated
12-Dec-14	From Version 18 to 19	Changed	Added Power Supply SKUs on the Accessories section: HPE X311 400W 100 240VAC to 12VDC Power Supply (J9581A) HPE X312 1000W 100-240VAC to 54VDC Power Supply (J9580A)
01-Dec-14	From Version 17 to 18	Changed	Overview, Features and benefits, Specifications, Warranty and support, Accessories were revised.
03-Jul-14	From Version 16 to 17	Changed	Configuration menu updated.
17-Feb-14	From Version 14 to 16	Changed	SFP+ Transceivers were revised.
12-Nov-13	From Version 13 to 14	Changed	Note was revised in Box Level Integration CTO Models in Configuration.
18-Oct-13	From Version 12 to 13	Changed	Configuration was revised.
27-Sep-13	From Version 11 to 12	Changed	Notes section was reconfigured in Configuration.
02-Jul-13	From Version 10 to 11	Added	Added J9150A - HPE X132 10G SFP+ LC SR Transceiver to Note 1 in the Configuration section.
10-Jun-13	From Version 9 to 10	Added	OM4 cables were added.
14-May-13	From Version 8 to 9	Changed	Updated the Configuration section.
22-Apr-13	From Version 7 to 8	Added	Overview: Added an image.
25-Mar-13	From Version 6 to 7	Added	Added the Configuration section.
01-Mar-13	From Version 5 to 6	Changed	Minor wording changes were made in Features and Benefits and Introductions. Minor changes were made to the specifications for the switches, including updating Included accessories, Fan tray, power supplies, and routing table size.
24-Sep-12	From Version 4 to 5	Changed	The Introduction and Features and Benefits. Minor changes were made to the specifications for the switches.
25-Jun-12	From Version 3 to 4	Changed	Features and Benefits and the weight and dimensions for each spec were revised.
14-May-12	From Version 2 to 3	Changed	Features and Benefits, Accessories, and the weight and dimensions for each spec were revised.
04-Oct-11	From Version 1 to 2	Changed	Accessories, Accessory Product Details, Models, Features and Benefits, and the Specifications were updated.

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## Summary of Changes



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