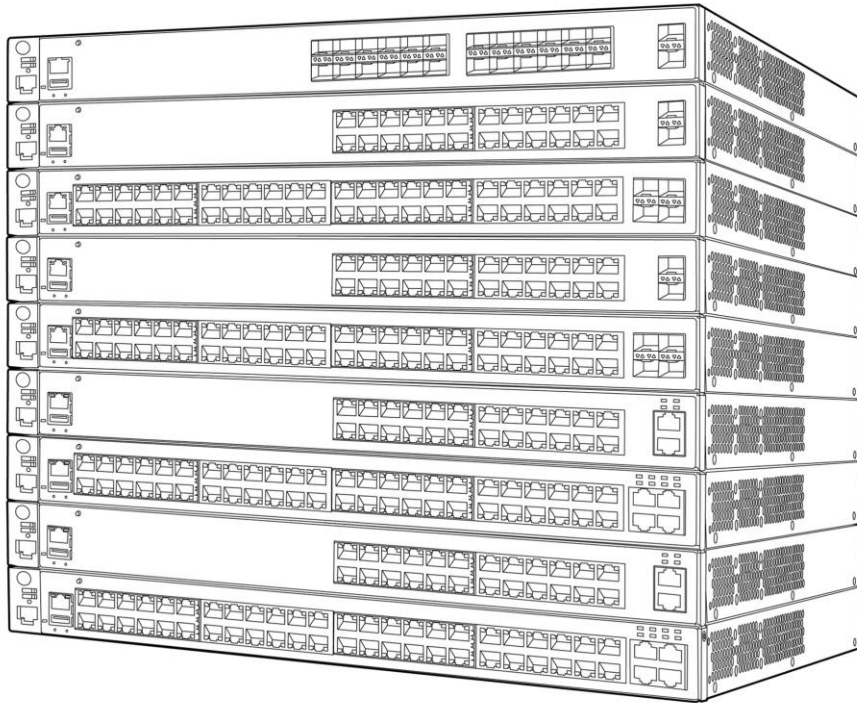


Overview

HP 3800 Switch Series



HP 3800 Switch Series Family

Models

HP 3800-24G-PoE+-2SFP+ Switch	J9573A
HP 3800-48G-PoE+-4SFP+ Switch	J9574A
HP 3800-24G-2SFP+ Switch	J9575A
HP 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
HP 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 2.0 with 3 years 24x7 phone support

Product overview

The HP 3800 Switch Series is a family of nine fully managed Gigabit Ethernet switches available in 24-port and 48-port models,

Overview

with or without PoE+, and with either SFP+ or 10GBASE-T uplinks. The 3800 Switch Series utilizes the latest HP 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.

Features and benefits

Software-defined networking

- **NEW 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

- **HTTP redirect function**
supports HP Intelligent Management Center (IMC) bring your own device (BYOD) solution

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 ACL, port, MAC address, or VLAN to a local or remote HP 8200 zl, 6600, 6200 yl, 5400 zl, 3800, or 3500 Switch anywhere on the network
- **RMON, XRMON, and sFlow v5**
provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **Traffic prioritization**
allows real-time traffic classification into eight priority levels 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

Overview

- **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; keeps management traffic segmented from network data traffic
- **Comware-compatible CLI**
 - **Comware-compatible CLI**
bridges the experience of HP Comware CLI users who are using the HP ProVision software CLI
 - **Display and fundamental Comware CLI commands**
are embedded in the switch CLI as native commands; display output is formatted as on Comware-based switches, and fundamental commands provide a 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

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 Power Over Ethernet Plus (PoE+)**
provides up to 30 W per port to IEEE 802.3 for PoE-/PoE+-powered devices such as video IP phones, IEEE 802.11n wireless access points, and advanced pan/zoom/tilt security cameras
- **Prestandard PoE support**
detects and provides power to pre-standard PoE devices; see list of supported devices in the product FAQs at: www.hp.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**
automatically adjusts for straight-through or crossover cables on all RJ-45 ports
- **IPv6:**
 - **IPv6 host:** enables switches to be managed in an IPv6 network
 - **Dual stack (IPv4 and IPv6):** transitions from 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 network traffic
 - **IPv6 routing:** supports static and OSPFv3 routing protocols
 - **6in4 tunneling:** supports encapsulation of IPv6 traffic in IPv4 packets
 - **Security:** provides RA guard, DHCPv6 protection, dynamic IPv6 lockdown

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:**
 - **High-efficiency power supplies:** 80 PLUS Gold-certified power supplies increase power savings
 - **Energy-efficient Ethernet support:** IEEE 802.3az support reduces power consumption
- **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

Overview

- **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:** when stacked, switches appear as a single chassis, providing simplified management
- **HP ProVision ASIC architecture**
designed with the latest HP ProVision ASIC, with very low latency, increased packet buffering, and adaptive power consumption

Resiliency and high availability

- **NEW 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 failover when the backup member of the stack becomes the commander
- **IEEE 802.3ad Link Aggregation Protocol (LACP) and HP 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
- **Virtual Router Redundancy Protocol (VRRP)**
allows groups of two routers to dynamically back each other up to create highly available routed environments
- **Dual hot-swappable power supplies**
 - **Increased resiliency:** second power supply can allow for complete switch power redundancy in case of power line or supply failure
 - **Increased PoE+ power:** second power supply can increase 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
- **NEW SmartLink**
provides easy-to-configure link redundancy of active and standby links

Layer 2 switching

- **GARP VLAN Registration Protocol**
allows automatic learning and dynamic assignment of VLANs
- **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
- **VLAN support and tagging**
supports the IEEE 802.1Q standard and 2,048 VLANs simultaneously
- **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+
- **HP switch meshing**
dynamically load balances across multiple active redundant links to increase available aggregate bandwidth; allows concurrent Layer 3 routing

Layer 3 services

- **Loopback interface address**

Overview

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 prevents server spoofing for UDP services such as DHCP

Layer 3 routing

- **Routing Information Protocol (RIP)**
provides RIPv1 and RIPv2 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

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
- **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
- **Virus throttling**
detects traffic patterns typical of worm-type viruses and either throttles or entirely prevents the virus from spreading across the routed VLANs or bridged interfaces without requiring external appliances
- **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**

Overview

- 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
- **Access control lists (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 each switch port to accept up to 32 sessions of 802.1X, Web, and MAC authentication

Convergence

- **IP multicast snooping** (data-driven IGMP)
automatically prevents flooding of IP multicast traffic
- **LLDP-MED** (Media Endpoint Discovery)
is a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones
- **PoE allocations**
support multiple methods (automatic, IEEE 802.3af class, LLDP-MED, or user specified) to allocate PoE power for more efficient energy savings
- **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
- **NEW 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 v2.0**
Advance hardware replacement with next-business-day delivery (available in most countries). See www.hp.com/networking/warrantysummary for duration details.

Overview

- **Electronic and telephone support (for Limited Lifetime Warranty 2.0)**
limited 24x7 telephone support is available from HP for the first 3 years; limited electronic and business hours telephone support is available from HP for the entire warranty period; to reach our support centers, refer to www.hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to www.hp.com/networking/warrantysummary
- **Software releases**
to find software for your product, refer to www.hp.com/networking/support; for details on the software releases available with your product purchase, refer to www.hp.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.

HP 3800-24G-PoE+-2SFP+ Switch

- 24 RJ-45 autosensing 10/100/1000 PoE+ ports
- 2 fixed 1000/10000 SFP+ ports1 open stacking module slot
- min=0 \ max=2 SFP+ Transceivers
- 1 HP X312 100w Power Supply included
- 1 HP E3800 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

HP 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 HP E3800 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

HP 3800-24G-2SFP+ Switch

- 24 RJ-45 autosensing 10/100/1000 ports24 autosensing

J9575A

See Configuration

Configuration

- 2 fixed 1000/10000 SFP+ ports
- min=0 \ max=2 SFP+ Transceivers
- 1 open stacking module slot
- 1 X311 400W Power Supply included
- 1 HP E3800 Switch Fan Tray (J9582A) included
- 1U - Height

Note:1, 2

PDU Cable NA/MEX/TW/JP

J9575A#B2B

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

PDU Cable ROW

J9575A#B2C

- C15 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord

J9575A#B2E

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

HP 3800-48G-4SFP+ Switch

J9576A

- 48 autosensing 10/100/1000 port
- 4 fixed 1000/10000 SFP+ ports
- min=0 \ max=4 SFP+ Transceivers
- 1 open stacking module slot
- 1 X311 400W Power Supply included
- 1 HP E3800 Switch Fan Tray (J9582A) included
- 1U - Height

See Configuration
Note:1, 2

C15 PDU NA

J9576A#B2B

- C15 to C14 Jumper Cord (NA)

PDU Cable NA/MEX/TW/JP

J9576A#B2B

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

C15 PDU ROW

J9576A#B2C

- C15 to C14 Jumper Cord (ROW)

PDU Cable ROW

J9576A#B2C

- C15 PDU Jumper Cord (ROW)

220 NA

J9576A#B2E

- NEMA L6-20P Cord

Configuration

High Volt Switch to Wall Power Cord	J9576A#B2E
<ul style="list-style-type: none">NEMA L6-20P Cord (NA/MEX/JP/TW)	
HP 3800-24SFP-2SFP+ Switch	J9584A
<ul style="list-style-type: none">24 SFP 100/1000 Mbps portsmin=0 \ max=24 SFP Transceivers2 fixed 1000/10000 SFP+ portsmin=0 \ max=2 SFP+ Transceivers1 open stacking module slot1 X311 400W Power Supply included1 HP E3800 Switch Fan Tray (J9582A) included1U - Height	See Configuration Note:1, 2, 4
PDU Cable NA/MEX/TW/JP	J9584A#B2B
<ul style="list-style-type: none">C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU Cable ROW	J9584A#B2C
<ul style="list-style-type: none">C15 PDU Jumper Cord (ROW)	
High Volt Switch to Wall Power Cord	J9584A#B2E
<ul style="list-style-type: none">NEMA L6-20P Cord (NA/MEX/JP/TW)	
HP 3800-24G-2XG Switch	J9585A
<ul style="list-style-type: none">24 RJ-45 autosensing 10/100/1000 ports2 RJ-45 10GbE ports1 X311 400W Power Supply included1 HP E3800 Switch Fan Tray (J9582A) included1 open stacking module slot1U - Height	See Configuration Note:2
PDU Cable NA/MEX/TW/JP	J9585A#B2B
<ul style="list-style-type: none">C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU Cable ROW	J9585A#B2C
<ul style="list-style-type: none">C15 PDU Jumper Cord (ROW)	
High Volt Switch to Wall Power Cord	J9585A#B2E
<ul style="list-style-type: none">NEMA L6-20P Cord (NA/MEX/JP/TW)	

Configuration

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 HP E3800 Switch Fan Tray (J9582A) included
- 1 open stacking module slot
- 1U - Height

J9586A
See Configuration
Note:2

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

HP 3800-24G-PoE+-2XG Switch

- 24 RJ-45 autosensing 10/100/1000 PoE+ ports
- 2 RJ-45 10GbE ports
- 1 HP X312 1000W Power Supply include
- 1 HP E3800 Switch Fan Tray (J9582A) included
- 1 open stacking module slot
- 1U - Height

J9587A
See Configuration
Note:2

PDU Cable NA/MEX/TW/JP

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

J9587A#B2B

PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

J9587A#B2C

High Volt Switch to Wall Power Cord

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

J9587A#B2E

HP 3800-48G-PoE+-4XG Switch

- 48 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 RJ-45 10GbE ports
- 1 HP X312 1000W Power Supply included
- 1 HP E3800 Switch Fan Tray (J9582A) included
- 1 open stacking module slot

J9588A

Configuration

- 1U - Height

PDU Cable NA/MEX/TW/JP J9588A#B2B

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

PDU Cable ROW J9588A#B2C

- C15 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord J9588A#B2E

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

Configuration Rules:

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

HP X121 1G SFP LC LH Transceiver	J4860C
HP X121 1G SFP LC LX Transceiver	J4859C
HP 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
HP X121 1G SFP RJ45 T Transceiver	J8177C
HP X132 10G SFP+ LC SR Transceiver	J9150A
HP X132 10G SFP+ LC ER Transceiver	J9153A
HP X132 10G SFP+ LC LR Transceiver	J9151A
HP X132 10G SFP+ LC LRM Transceiver	J9152A
HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HP 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:

HP X121 1G SFP LC LH Transceiver	J4860C
HP X121 1G SFP LC LX Transceiver	J4859C
HP 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
HP X121 1G SFP RJ45 T Transceiver	J8177C
HP X111 100M SFP LC FX Transceiver	J9054C
HP X112 100M SFP LC BX-D Transceiver	J9099B
HP X112 100M SFP LC BX-U Transceiver	J9100B
HP X132 10G SFP+ LC ER Transceiver	J9153A
HP X132 10G SFP+ LC SR Transceiver	J9150A

Configuration

HP X132 10G SFP+ LC LR Transceiver	J9151A
HP X132 10G SFP+ LC LRM Transceiver	J9152A
HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HP X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B

Box Level Integration CTO Models

CTO Solution Sku

HP 38xx CTO Switch Solution	JG501A
<ul style="list-style-type: none"> SSP trigger sku 	

CTO Switch Chassis

HP 3800-24G-PoE+-2SFP+ Switch	J9573A
<ul style="list-style-type: none"> 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 HP E3800 Switch Fan Tray (J9582A) included 1U - Height 	See Configuration Note:1, 2, 10, 11

PDU Cable NA/MEX/TW/JP	J9573A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	

PDU Cable ROW	J9573A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	

High Volt Switch to Wall Power Cord	J9573A#B2E
<ul style="list-style-type: none"> " NEMA L6-20P Cord (NA/MEX/JP/TW) 	

HP 3800-48G-PoE+-4SFP+ Switch	J9574A
<ul style="list-style-type: none"> 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 HP E3800 Switch Fan Tray (J9582A) included 1U - Height 	See Configuration Note:1, 2, 10, 11

PDU Cable NA/MEX/TW/JP	J9574A#B2B
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Configuration

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

PDU Cable ROW

J9574A#B2C

- C15 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord

J9574A#B2E

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

HP 3800-24G-2SFP+ Switch

J9575A

See Configuration
Note:1, 2, 10, 11

- 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 HP E3800 Switch Fan Tray (J9582A) included
- 1U - Height

PDU Cable NA/MEX/TW/JP

J9575A#B2B

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

PDU Cable ROW

J9575A#B2C

- C15 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord

J9575A#B2E

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

HP 3800-48G-4SFP+ Switch

J9576A

See Configuration
Note:1, 2, 10, 11

- 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 HP E3800 Switch Fan Tray (J9582A) included
- 1U - Height

PDU Cable NA/MEX/TW/JP

J9576A#B2B

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

PDU Cable ROW

J9576A#B2C

Configuration

- C15 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord

J9576A#B2E

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

HP 3800-24SFP-2SFP+ Switch

J9584A

See Configuration
Note:1, 2, 4, 10, 11

- 24 SFP 100/1000 Mbps ports
- min=0 \ max=24 SFP Transceivers
- 2 fixed 1000/10000 SFP+ ports
- min=0 \ max=2 SFP+ Transceivers
- 1 open stacking module slot
- 1 X311 400W Power Supply included
- 1 HP E3800 Switch Fan Tray (J9582A) included
- 1U - Height

PDU Cable NA/MEX/TW/JP

J9584A#B2B

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

PDU Cable ROW

J9584A#B2C

- 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

J9585A

See Configuration
Note:2, 10, 11

- 24 RJ-45 autosensing 10/100/1000 ports
- 2 RJ-45 10GbE ports
- 1 X311 400W Power Supply included
- 1 HP E3800 Switch Fan Tray (J9582A) included
- 1 open stacking module slot
- 1U - Height

PDU Cable NA/MEX/TW/JP

J9585A#B2B

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

PDU Cable ROW

J9585A#B2C

- C15 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord

J9585A#B2E

Configuration

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

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 HP E3800 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

HP 3800-24G-PoE+-2XG Switch

- 24 RJ-45 autosensing 10/100/1000 PoE+ ports
- 2 RJ-45 10GbE ports
- 1 HP X312 1000W Power Supply included
- 1 HP E3800 Switch Fan Tray (J9582A) included
- 1 open stacking module slot
- 1U - Height

J9587A

See Configuration
Note:2, 10, 11

PDU Cable NA/MEX/TW/JP

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

J9587A#B2B

PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

J9587A#B2C

High Volt Switch to Wall Power Cord

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

J9587A#B2E

HP 3800-48G-PoE+-4XG Switch

- 48 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 RJ-45 10GbE ports
- 1 HP X312 1000W Power Supply included

J9588A

See Configuration
Note:2, 10, 11

Configuration

- 1 HP E3800 Switch Fan Tray (J9582A) included
- 1 open stacking module slot
- 1U - Height

PDU Cable NA/MEX/TW/JP J9588A#B2B

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

PDU Cable ROW J9588A#B2C

- C15 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord J9588A#B2E

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

Configuration Rules:

Note 1 The following Transceivers install into this Switch:

HP X121 1G SFP LC LH Transceiver	J4860C
HP X121 1G SFP LC LX Transceiver	J4859C
HP 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
HP X121 1G SFP RJ45 T Transceiver	J8177C
HP X132 10G SFP+ LC SR Transceiver	J9150A
HP X132 10G SFP+ LC ER Transceiver	J9153A
HP X132 10G SFP+ LC LR Transceiver	J9151A
HP X132 10G SFP+ LC LRM Transceiver	J9152A
HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HP 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)

HP X121 1G SFP LC LH Transceiver	J4860C
HP X121 1G SFP LC LX Transceiver	J4859C
HP 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
HP X121 1G SFP RJ45 T Transceiver	J8177C
HP X111 100M SFP LC FX Transceiver	J9054C
HP X112 100M SFP LC BX-D Transceiver	J9099B
HP X112 100M SFP LC BX-U Transceiver	J9100B

Configuration

- 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 - HP 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

HP 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 HP E3800 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

HP 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 HP E3800 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

HP 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

J9575A
See Configuration
Note:1, 2, 5, 6, 11

Configuration

- 1 X311 400W Power Supply included
- 1 HP E3800 Switch Fan Tray (J9582A) included
- 1U - Height

PDU Cable NA/MEX/TW/JP

J9575A#B2B

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

PDU Cable ROW

J9575A#B2C

- C15 PDU Jumper Cord (ROW)

HP 3800-48G-4SFP+ Switch

J9576A

- 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 HP E3800 Switch Fan Tray (J9582A) included
- 1U - Height

See Configuration
Note:1, 2, 5, 6, 11

PDU Cable NA/MEX/TW/JP

J9576A#B2B

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

PDU Cable ROW

J9576A#B2C

- C15 PDU Jumper Cord (ROW)

HP 3800-24SFP-2SFP+ Switch

J9584A

- 24 SFP 100/1000 Mbps ports
- min=0 \ max=24 SFP Transceivers
- 2 fixed 1000/10000 SFP+ ports
- min=0 \ max=2 SFP+ Transceivers
- 1 open stacking module slot
- 1 X311 400W Power Supply included
- 1 HP E3800 Switch Fan Tray (J9582A) included
- 1U - Height

See Configuration
Note: 1, 2, 4, 5, 6, 11

PDU Cable NA/MEX/TW/JP

J9584A#B2B

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

PDU Cable ROW

J9584A#B2C

- C15 PDU Jumper Cord (ROW)

Configuration

HP 3800-24G-2XG Switch	J9585A
<ul style="list-style-type: none">• 24 RJ-45 autosensing 10/100/1000 ports• 2 RJ-45 10GbE ports• 1 X311 400W Power Supply included• 1 HP E3800 Switch Fan Tray (J9582A) included• 1 open stacking module slot• 1U - Height	
PDU Cable NA/MEX/TW/JP	J9585A#B2B
<ul style="list-style-type: none">• C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU Cable ROW	J9585A#B2C
<ul style="list-style-type: none">• C15 PDU Jumper Cord (ROW)	
HP 3800-48G-4XG Switch	J9586A
<ul style="list-style-type: none">• 48 RJ-45 autosensing 10/100/1000 ports• 4 RJ-45 10GbE ports• 1 HP X311 400W Power Supply included• 1 HP E3800 Switch Fan Tray (J9582A) included• 1 open stacking module slot• 1U - Height	See Configuration Note:2, 5, 6, 11
PDU Cable NA/MEX/TW/JP	J9586A#B2B
<ul style="list-style-type: none">• C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU Cable ROW	J9586A#B2C
<ul style="list-style-type: none">• C15 PDU Jumper Cord (ROW)	
HP 3800-24G-PoE+-2XG Switch	J9587A
<ul style="list-style-type: none">• 24 RJ-45 autosensing 10/100/1000 PoE+ ports• 2 RJ-45 10GbE ports• 1 HP X312 1000W Power Supply included• 1 HP E3800 Switch Fan Tray (J9582A) included• 1 open stacking module slot• 1U - Height	See Configuration Note:2, 5, 6, 11
PDU Cable NA/MEX/TW/JP	J9587A#B2B
<ul style="list-style-type: none">• C15 PDU Jumper Cord (NA/MEX/TW/JP)	
PDU Cable ROW	J9587A#B2C

Configuration

- C15 PDU Jumper Cord (ROW)

HP 3800-48G-PoE+-4XG Switch

- 48 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 RJ-45 10GbE ports
- 1 HP X312 1000W Power Supply included
- 1 HP E3800 Switch Fan Tray (J9582A) included
- 1 open stacking module slot
- 1U - Height

J9588A

See Configuration
Note:2, 5, 6, 11

PDU Cable NA/MEX/TW/JP

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

J9588A#B2B

PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

J9588A#B2C

Configuration Rules:

Note 1

The following Transceivers install into this Switch:

HP X121 1G SFP LC LH Transceiver	J4860C
HP X121 1G SFP LC LX Transceiver	J4859C
HP 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
HP X121 1G SFP RJ45 T Transceiver	J8177C
HP X132 10G SFP+ LC SR Transceiver	J9150A
HP X132 10G SFP+ LC ER Transceiver	J9153A
HP X132 10G SFP+ LC LR Transceiver	J9151A
HP X132 10G SFP+ LC LRM Transceiver	J9152A
HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HP 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)

HP X121 1G SFP LC LH Transceiver	J4860C
HP X121 1G SFP LC LX Transceiver	J4859C
HP 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
HP X121 1G SFP RJ45 T Transceiver	J8177C

Configuration

HP X111 100M SFP LC FX Transceiver	J9054C
HP X112 100M SFP LC BX-D Transceiver	J9099B
HP X112 100M SFP LC BX-U Transceiver	J9100B

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 HP 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 HP Universal Rack.

Internal Power Supplies

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

HP X312 1000W 100-240VAC to 54VDC Power Supply	J9580A See Configuration Note:1, 3, 4,5
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	J9580A#B2B
PDU Cable ROW <ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	J9580A#B2C
High Volt Power Supply to Wall Power Cord <ul style="list-style-type: none"> NEMA L6-20P Cord (NA/MEX/JP/TW) 	J9580A#B2E
HP X311 400W 100-240VAC to 12VDC Power Supply	J9581A See Configuration Note:2, 3, 4,5
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	J9581A#B2B
PDU Cable ROW <ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	J9581A#B2C
High Volt Power Supply to Wall Power Cord <ul style="list-style-type: none"> NEMA L6-20P Cord (NA/MEX/JP/TW) 	J9581A#B2E

Configuration

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, 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

HP 3800 4-port Stacking Module

J9577A
See Configuration
Note:1

Configuration Rules:

- Note 1 The following Cables install into this Module: (Use #B01 quoted to switch if switch is CTO) - if applicable
J9578A - HP E3800 0.5m Stacking Cable
J9665A - HP E3800 1m Stacking Cable
J9579A - HP E3800 3m Stacking Cable

Transceivers

SFP Transceivers

HP X121 1G SFP LC LH Transceiver	J4860C
HP X121 1G SFP LC LX Transceiver	J4859C
HP X121 1G SFP LC SX Transceiver	J4858C

Configuration

HP X122 1G SFP LC BX-D Transceiver	J9142B
HP X122 1G SFP LC BX-U Transceiver	J9143B
HP X121 1G SFP RJ45 T Transceiver	J8177C
HP X111 100M SFP LC FX Transceiver	J9054C
HP X112 100M SFP LC BX-D Transceiver	J9099B
HP X112 100M SFP LC BX-U Transceiver	J9100B

SFP+ Transceivers

HP X132 10G SFP+ LC ER Transceiver	J9153A
HP X132 10G SFP+ LC SR Transceiver	J9150A
HP X132 10G SFP+ LC LR Transceiver	J9151A
HP X132 10G SFP+ LC LRM Transceiver	J9152A
HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B#B01
HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B#B01
HP X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B#B01
HP X242 SFP+ SFP+ 10m Direct Attach Cable	J9286B
HP X242 SFP+ SFP+15m Direct Attach Cable	J9287B
HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable	J9300A#B01
HP 10G X244 XFP to SFP+ 3m Direct Attach Copper Cable	J9301A#B01
HP 10G X244 XFP to SFP+ 5m Direct Attach Copper Cable	J9302A#B01

Cables

Stacking Cables

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

HP E3800 0.5m Stacking Cable	J9578A#B01
HP E3800 1m Stacking Cable	J9665A#B01

Configuration

HP E3800 3m Stacking Cable J9579A#B01

Multi-Mode Cables

HP .5m Multi-mode OM3 LC/LC FC Cable AJ833A

HP 1m Multi-mode OM3 LC/LC FC Cable AJ834A

HP 2 m Multimode OM3 LC/LC FC Cable AJ835A

HP 5 m Multimode OM3 LC/LC FC Cable AJ836A

HP 15 m Multimode OM3 LC/LC FC Cable AJ837A

HP 30 m Multimode OM3 LC/LC FC Cable AJ838A

HP 50 m Multimode OM3 LC/LC FC Cable AJ839A

HP Premier Flex LC/LC OM4 2f 1m Cbl QK732A

HP Premier Flex LC/LC OM4 2f 2m Cbl QK733A

HP Premier Flex LC/LC OM4 2f 5m Cbl QK734A

HP Premier Flex LC/LC OM4 2f 15m Cbl QK735A

HP Premier Flex LC/LC OM4 2f 30m Cbl QK736A

HP Premier Flex LC/LC OM4 2f 50m Cbl QK737A

Switch Enclosure Options

Rack Mount Kit

HP X410 1U Univ 4-post Rack Mnt Kit J9583A
See Configuration
Note:1

Configuration Rules:

Note 1 If this switch is factory installed in HP Universal Racks, Then the J9583A#0D1 is required.

CLIC Only - Allow the J9583AZ in all regions.

Fan Tray

HP 3800 Switch Fan Tray J9582A

- This is a Spare Only

Technical Specifications

HP 3800-24G-PoE+-2SFP+ Switch (J9573A)

Included accessories	1 HP 3800 Switch Fan Tray (J9582A) 1 HP X312 1000W 100-240VAC to 54VDC Power Supply (J9580A)	
I/O ports and slots	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	
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot	
Power supplies	2 power supply slots 1 minimum power supply required includes: 1 x J9580A (HP X312 1000W 100-240VAC to 54VDC Power Supply)	
Fan tray	includes: 1 x J9582A 1 fan tray slot	
Physical characteristics	Dimensions	17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)
	Weight	15.9 lb (7.21 kg) switch chassis with 1 power supply and fan tray installed
Memory and processor	Processor	HP ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 18 MB dynamic
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
Performance	1000 Mb Latency	< 2.8 μ s (LIFO 64-byte packets)
	10 Gbps Latency	< 1.9 μ s (LIFO 64-byte packets)
	Throughput	up to 65.4 Mpps (64-byte packets)
	Switching capacity	88 Gbps
	Routing table size	10000 entries (IPv4)
	MAC address table size	65500 entries
Environment	Operating temperature	32°F to 131°F (0°C to 55°C); max temperature is 45°C when transceivers are installed
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 49 dB, Pressure: 33.7 dB
Electrical characteristics	Frequency	50/60 Hz
	Maximum heat dissipation	434 BTU/hr (457.87 kJ/hr)
	AC voltage	100-120/200-240 VAC
	Current	9.4/7.8 A
	Maximum power rating	127 W
	Idle power	70 W
	PoE power	720 W PoE+

Technical Specifications

Safety	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825	
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	HP PCM+; HP PCM; command-line interface; Web browser; configuration menu	
Notes	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later, for example, J9142B, J8177C).	
Services	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

HP 3800-48G-PoE+-4SFP+ Switch (J9574A)

Included accessories	1 HP 3800 Switch Fan Tray (J9582A) 1 HP X312 1000W 100-240VAC to 54VDC Power Supply (J9580A)	
I/O ports and slots	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+) 4 fixed 1000/10000 SFP+ ports	
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot	
Power supplies	2 power supply slots 1 minimum power supply required includes: 1 x J9580A (HP X312 1000W 100-240VAC to 54VDC Power Supply)	
Fan tray	includes: 1 x J9582A 1 fan tray slot	
Physical characteristics	Dimensions	17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)
	Weight	16.84 lb (7.64 kg) switch chassis with 1 power supply and fan tray installed
Memory and processor	Processor	HP ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 36 MB dynamic
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
Performance	1000 Mb Latency	< 2.8 μ s (LIFO 64-byte packets)
	10 Gbps Latency	< 1.9 μ s (LIFO 64-byte packets)
	Throughput	up to 130.9 Mpps (64-byte packets)
	Switching capacity	176 Gbps

Technical Specifications

	Routing table size	10000 entries (IPv4)
	MAC address table size	65500 entries
Environment	Operating temperature	32°F to 131°F (0°C to 55°C); max temperature is 45°C when transceivers are installed
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 57 dB, Pressure: 41.2 dB
Electrical characteristics	Frequency	50/60 Hz
	Maximum heat dissipation	635 BTU/hr (669.93 kJ/hr)
	AC voltage	100-120/200-240 VAC
	Current	9.4/7.8 A
	Maximum power rating	186 W
	Idle power	97 W
	PoE power	1080 W PoE+
Safety	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825	
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	HP PCM+; HP PCM; command-line interface; Web browser; configuration menu	
Notes	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later, for example, J9142B, J8177C).	
Services	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

HP 3800-24G-2SFP+ Switch (J9575A)

Included accessories	1 HP 3800 Switch Fan Tray (J9582A) 1 HP X311 400W 100-240VAC to 12VDC Power Supply (J9581A)
I/O ports and slots	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)

Technical Specifications

	2 fixed 1000/10000 SFP+ ports
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot
Power supplies	2 power supply slots 1 minimum power supply required includes: 1 x J9581A (HP X311 400W 100-240VAC to 12VDC Power Supply)
Fan tray	includes: 1 x J9582A 1 fan tray slot
Physical characteristics	Dimensions 17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height) Weight 15.26 lb (6.92 kg) switch chassis with 1 power supply and fan tray installed
Memory and processor	Processor HP ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 18 MB dynamic
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only
Performance	1000 Mb Latency < 2.8 μ s (LIFO 64-byte packets) 10 Gbps Latency < 1.9 μ s (LIFO 64-byte packets) Throughput up to 65.4 Mpps (64-byte packets) Switching capacity 88 Gbps Routing table size 10000 entries (IPv4) MAC address table size 65500 entries
Environment	Operating temperature 32°F to 131°F (0°C to 55°C); max temperature is 45°C when transceivers are installed Operating relative humidity 15% to 95% @ 104°F (40°C), noncondensing Nonoperating/Storage temperature -40°F to 158°F (-40°C to 70°C) Nonoperating/Storage relative humidity 15% to 90% @ 149°F (65°C), noncondensing Altitude up to 10,000 ft (3 km) Acoustic Power: 36 dB, Pressure: 26.4 dB
Electrical characteristics	Frequency 50/60 Hz Maximum heat dissipation 434 BTU/hr (457.87 kJ/hr) AC voltage 100-127/200-240 VAC Current 6/3 A Maximum power rating 127 W Idle power 66 W
Safety	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
Immunity	EN EN 55024, CISPR 24 ESD IEC 61000-4-2 Radiated IEC 61000-4-3; 3 V/m EFT/Burst IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line) Surge IEC 61000-4-5; 1 kV/2 kV AC Conducted IEC 61000-4-6; 3 V

Technical Specifications

	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	HP PCM+; HP PCM; command-line interface; Web browser; configuration menu	
Notes	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later, for example, J9142B, J8177C).	
Services	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

HP 3800-48G-4SFP+ Switch (J9576A)

Included accessories	1 HP 3800 Switch Fan Tray (J9582A) 1 HP X311 400W 100-240VAC to 12VDC Power Supply (J9581A)	
Ports	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; 1000BASE-T: full only 4 fixed 1000/10000 SFP+ ports	
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot	
Power supplies	2 power supply slots 1 minimum power supply required includes: 1 x J9581A (HP X311 400W 100-240VAC to 12VDC Power Supply)	
Fan tray	includes: 1 x J9582A 1 fan tray slot	
Physical characteristics	Dimensions	17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)
	Weight	16.01 lb (7.26 kg) switch chassis with 1 power supply and fan tray installed
Memory and processor	Processor	HP ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 36 MB dynamic
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
Performance	1000 Mb Latency	< 2.8 μ s (LIFO 64-byte packets)
	10 Gbps Latency	< 1.9 μ s (LIFO 64-byte packets)
	Throughput	up to 130.9 Mpps (64-byte packets)
	Switching capacity	176 Gbps
	Routing table size	10000 entries (IPv4)
	MAC address table size	65500 entries
Environment	Operating temperature	32°F to 131°F (0°C to 55°C); max temperature is 45°C when transceivers are installed
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing

Technical Specifications

	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 36 dB, Pressure: 25.4 dB
Electrical characteristics	Maximum heat dissipation	635 BTU/hr (669.93 kJ/hr)
	AC Voltage	100-127/200-240 VAC
	Current	6/3 A
	Idle power	70 W
	Maximum power rating	186 W
	Frequency	50/60 Hz
	Notes	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.
Safety	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825	
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	HP PCM+; HP PCM; command-line interface; Web browser; configuration menu	
Notes	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later, for example, J9142B, J8177C).	
Services	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

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

Included accessories	1 HP 3800 Switch Fan Tray (J9582A) 1 HP X311 400W 100-240VAC to 12VDC Power Supply (J9581A)	
Ports	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	
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot	
Power supplies	2 power supply slots 1 minimum power supply required	

Technical Specifications

		includes: 1 x J9581A (HP X311 400W 100-240VAC to 12VDC Power Supply)
Fan tray		includes: 1 x J9582A 1 fan tray slot
Physical characteristics	Dimensions	17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)
	Weight	15.81 lb (7.17 kg) switch chassis with 1 power supply and fan tray installed
Memory and processor	Processor	HP ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 18 MB dynamic
Mounting and enclosure		Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only
Performance	1000 Mb Latency	< 2.8 μ s (LIFO 64-byte packets)
	10 Gbps Latency	< 1.9 μ s (LIFO 64-byte packets)
	Throughput	up to 65.4 Mpps (64-byte packets)
	Switching capacity	88 Gbps
	Routing table size	10000 entries (IPv4)
	MAC address table size	65500 entries
Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 39 dB, Pressure: 25.5 dB
Electrical characteristics	Maximum heat dissipation	434 BTU/hr (457.87 kJ/hr)
	AC Voltage	100-127/200-240 VAC
	Current	6/3 A
	Idle power	70 W
	Maximum power rating	127 W
	Frequency	50/60 Hz
	Notes	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.
Safety		EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825
Emissions		FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz

Technical Specifications

	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management Services	HP PCM+; HP PCM; command-line interface; Web browser; configuration menu	
	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

HP 3800-48G-4XG Switch (J9586A)

Included accessories	1 HP 3800 Switch Fan Tray (J9582A) 1 HP X311 400W 100-240VAC to 12VDC Power Supply (J9581A)	
Ports	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; 1000BASE-T: full only 4 RJ-45 10-GbE ports IEEE 802.3an-2006 Type 10GBASE-T; Duplex: full only	
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot	
Power supplies	2 power supply slots 1 minimum power supply required includes: 1 x J9581A (HP X311 400W 100-240VAC to 12VDC Power Supply)	
Fan tray	includes: 1 x J9582A 1 fan tray slot	
Physical characteristics	Dimensions	17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)
	Weight	16.36 lb (7.42 kg) switch chassis with 1 power supply and fan tray installed
Memory and processor	Processor	HP ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 36 MB dynamic
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
Performance	1000 Mb Latency	< 2.8 μ s (LIFO 64-byte packets)
	10 Gbps Latency	< 1.9 μ s (LIFO 64-byte packets)
	Throughput	up to 130.9 Mpps (64-byte packets)
	Switching capacity	176 Gbps
	Routing table size	10000 entries (IPv4)
	MAC address table size	65500 entries
Environment	Operating temperature	32°F to 131°F (0°C to 55°C); Max temperature is 45C when SFP+ Transceivers are installed
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 34 dB, Pressure: 24.5 dB
Electrical characteristics	Maximum heat dissipation	635 BTU/hr (669.93 kJ/hr)
	AC Voltage	100-127/200-240 VAC

Technical Specifications

Current	6/3 A
Idle power	74 W
Maximum power rating	186 W
Frequency	50/60 Hz
Notes	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.

Safety	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
Immunity	<p>EN EN 55024, CISPR 24</p> <p>ESD IEC 61000-4-2</p> <p>Radiated IEC 61000-4-3; 3 V/m</p> <p>EFT/Burst IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)</p> <p>Surge IEC 61000-4-5; 1 kV/2 kV AC</p> <p>Conducted IEC 61000-4-6; 3 V</p> <p>Power frequency magnetic field IEC 61000-4-8; 1 A/m, 50 or 60 Hz</p> <p>Voltage dips and interruptions IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods</p> <p>Harmonics EN 61000-3-2, IEC 61000-3-2</p> <p>Flicker EN 61000-3-3, IEC 61000-3-3</p>
Management Services	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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

Included accessories	1 HP 3800 Switch Fan Tray (J9582A) 1 HP X312 1000W 100-240VAC to 54VDC Power Supply (J9580A)
Ports	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
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot
Power supplies	2 power supply slots 1 minimum power supply required includes: 1 x J9580A (HP X312 1000W 100-240VAC to 54VDC Power Supply)
Fan tray	includes: 1 x J9582A 1 fan tray slot
Physical characteristics	<p>Dimensions 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>Weight 16.45 lb (7.46 kg) switch chassis with 1 power supply and fan tray installed</p>
Memory and processor	Processor HP ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 18 MB dynamic

Technical Specifications

Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
Performance	1000 Mb Latency	< 2.8 μ s (LIFO 64-byte packets)
	10 Gbps Latency	< 1.9 μ s (LIFO 64-byte packets)
	Throughput	up to 65.4 Mpps (64-byte packets)
	Switching capacity	88 Gbps
	Routing table size	10000 entries (IPv4)
	MAC address table size	65500 entries
Environment	Operating temperature	32°F to 131°F (0°C to 55°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 48 dB, Pressure: 32.6 dB
Electrical characteristics	Maximum heat dissipation	434 BTU/hr (457.87 kJ/hr)
	AC Voltage	100-120/200-240 VAC
	Current	9.4/7.8 A
	Idle power	71 W
	Maximum power rating	127 W
	PoE power	720 W PoE+
	Frequency	50/60 Hz
	Notes	<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>
Safety	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825	
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods

Technical Specifications

	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management Services	HP PCM+; HP PCM; command-line interface; Web browser; configuration menu	
	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

HP 3800-48G-PoE+-4XG Switch (J9588A)

Included accessories	1 HP 3800 Switch Fan Tray (J9582A) 1 HP X312 1000W 100-240VAC to 54VDC Power Supply (J9580A)	
Ports	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	
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot	
Power supplies	2 power supply slots 1 minimum power supply required includes: 1 x J9580A (HP X312 1000W 100-240VAC to 54VDC Power Supply)	
Fan tray	includes: 1 x J9582A 1 fan tray slot	
Physical characteristics	Dimensions	17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)
	Weight	17.24 lb (7.82 kg) switch chassis with 1 power supply and fan tray installed
Memory and processor	Processor	HP ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 36 MB dynamic
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
Performance	1000 Mb Latency	< 2.8 μ s (LIFO 64-byte packets)
	10 Gbps Latency	< 1.9 μ s (LIFO 64-byte packets)
	Throughput	up to 130.9 Mpps (64-byte packets)
	Switching capacity	176 Gbps
	Routing table size	10000 entries (IPv4)
	MAC address table size	65500 entries
Environment	Operating temperature	32°F to 131°F (0°C to 55°C); max temperature is 45C when SFP+ transceivers are installed
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 57 dB, Pressure: 41.5 dB
Electrical characteristics	Maximum heat dissipation	635 BTU/hr (669.93 kJ/hr)
	AC Voltage	100-120/200-240 VAC
	Current	9.4/7.8 A

Technical Specifications

Idle power	100 W
Maximum power rating	186 W
PoE power	1080 W PoE+
Frequency	50/60 Hz
Notes	<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 input, a maximum of 814 W of PoE power is available.</p>

Safety	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
Immunity	<p>EN EN 55024, CISPR 24</p> <p>ESD IEC 61000-4-2</p> <p>Radiated IEC 61000-4-3; 3 V/m</p> <p>EFT/Burst IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)</p> <p>Surge IEC 61000-4-5; 1 kV/2 kV AC</p> <p>Conducted IEC 61000-4-6; 3 V</p> <p>Power frequency magnetic field IEC 61000-4-8; 1 A/m, 50 or 60 Hz</p> <p>Voltage dips and interruptions IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods</p> <p>Harmonics EN 61000-3-2, IEC 61000-3-2</p> <p>Flicker EN 61000-3-3, IEC 61000-3-3</p>
Management	HP PCM+; HP PCM; command-line interface; Web browser; configuration menu
Services	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 3800-24SFP-2SFP+ Switch (J9584A)

Included accessories	<ul style="list-style-type: none"> 1 HP 3800 Switch Fan Tray (J9582A) 1 HP X311 400W 100-240VAC to 12VDC Power Supply (J9581A)
Ports	<ul style="list-style-type: none"> 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
Additional ports and slots	<ul style="list-style-type: none"> 1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 stacking module slot
Power supplies	<ul style="list-style-type: none"> 2 power supply slots 1 minimum power supply required includes: 1 x J9581A (HP X311 400W 100-240VAC to 12VDC Power Supply)
Fan tray	<ul style="list-style-type: none"> includes: 1 x J9582A 1 fan tray slot

Technical Specifications

Physical characteristics	Dimensions	17.43(w) x 18.4(d) x 1.7(h) in (44.27 x 46.74 x 4.32 cm) (1U height)
	Weight	16.01 lb (7.26 kg) switch chassis with 1 power supply and fan tray installed
Memory and processor	Processor	HP ProVision ASIC/ARM @ 350 MHz; Freescale P2020 @ 1200 MHz, 4 GB flash, 2 GB SDRAM; packet buffer size: 18 MB dynamic
	Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only
Performance	1000 Mb Latency	< 2.8 μ s (LIFO 64-byte packets)
	10 Gbps Latency	< 1.9 μ s (LIFO 64-byte packets)
	Throughput	up to 65.4 Mpps (64-byte packets)
	Switching capacity	88 Gbps
	Routing table size	10000 entries (IPv4)
	MAC address table size	65500 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing
	Altitude	up to 10,000 ft (3 km)
	Acoustic	Power: 36 dB, Pressure: 25 dB
Electrical characteristics	Maximum heat dissipation	434 BTU/hr (457.87 kJ/hr)
	AC Voltage	100-127/200-240 VAC
	Current	6/3 A
	Idle power	55 W
	Maximum power rating	127 W
	Frequency	50/60 Hz
	Notes	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.
	Safety	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	
Immunity	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3; 3 V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2

Technical Specifications

	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	HP PCM+; HP PCM; command-line interface; Web browser; configuration menu	
Notes	Supported 1G SFP transceivers are revision "B" or later (product number ends with the letter "B" or later, for example, J9142B, J8177C).	
Services	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	
Standards and protocols (applies to all products in series)	BGP	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
	Denial of service protection	
	CPU DoS Protection	
	Device management	
	RFC 1591 DNS (client)	
	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	
	MIBs	
	IEEE 802.1ap (MSTP and STP MIB's only)	
	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	

Technical Specifications

RFC 2548 (MS-RAS-Vendor only)
RFC 3046 DHCP Relay Agent Information Option
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)
UDLD (Uni-directional Link Detection)

IP multicast

RFC 3376 IGMPv3 (host joins only)
RFC 3973 PIM Dense Mode
RFC 4601 PIM Sparse Mode

IPv6

RFC 1981 IPv6 Path MTU Discovery
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 2925 Ping MIB
RFC 2932 IP (Multicast Routing MIB)
RFC 2933 IGMP MIB
RFC 4836 Managed Objects for 802.3 Medium Attachment Units (MAU)

Network management

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 5424 Syslog Protocol
ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
SNMPv1/v2c/v3
XRMON

OSPF

RFC 2328 OSPFv2
RFC 3101 OSPF NSSA
RFC 3623 Graceful OSPF Restart (Unplanned Outages only)
RFC 5340 OSPFv3 for IPv6

QoS/CoS

RFC 2474 DiffServ Precedence, including 8 queues/port
RFC 2597 DiffServ Assured Forwarding (AF)
RFC 2598 DiffServ Expedited Forwarding (EF)

Security

RFC 2328 OSPFv2
RFC 3101 OSPF NSSA
RFC 3623 Graceful OSPF Restart (Unplanned Outages only)
RFC 5340 OSPFv3 for IPv6

Accessories

HP 3800 Switch Series accessories

Modules	
HP 3800 4-port Stacking Module	J9577A
Cables	
HP 3800 0.5m Stacking Cable	J9578A
HP 3800 1m Stacking Cable	J9665A
HP 3800 3m Stacking Cable	J9579A
Power Supply	
HP X311 400W 100-240VAC to 12VDC Power Supply	J9581A
HP X312 1000W 100-240VAC to 54VDC Power Supply	J9580A
Fan Tray	
HP 3800 Switch Fan Tray	J9582A
Mounting Kit	
HP X410 1U Universal 4-post Rack Mounting Kit	J9583A
HP 3800-24G-PoE+-2SFP+ Switch (J9573A)	
HP X132 10G SFP+ LC LRM Transceiver	J9152A
HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HP X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable	J9300A
HP X244 10G XFP to SFP+ 3m Direct Attach Copper Cable	J9301A
HP X244 10G XFP to SFP+ 5m Direct Attach Copper Cable	J9302A
HP X132 10G SFP+ LC ER Transceiver	J9153A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A
HP 3800-48G-PoE+-4SFP+ Switch (J9574A)	
HP X132 10G SFP+ LC LR Transceiver	J9151A
HP X132 10G SFP+ LC LRM Transceiver	J9152A
HP X132 10G SFP+ LC ER Transceiver	J9153A
HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HP X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable	J9300A
HP X244 10G XFP to SFP+ 3m Direct Attach Copper Cable	J9301A
HP X244 10G XFP to SFP+ 5m Direct Attach Copper Cable	J9302A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A
HP 3800-24G-2SFP+ Switch (J9575A)	
HP X132 10G SFP+ LC LR Transceiver	J9151A
HP X132 10G SFP+ LC LRM Transceiver	J9152A
HP X132 10G SFP+ LC ER Transceiver	J9153A
HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B

Accessories

HP X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable	J9300A
HP X244 10G XFP to SFP+ 3m Direct Attach Copper Cable	J9301A
HP X244 10G XFP to SFP+ 5m Direct Attach Copper Cable	J9302A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A
HP 3800-48G-4SFP+ Switch (J9576A)	
HP X132 10G SFP+ LC LR Transceiver	J9151A
HP X132 10G SFP+ LC LRM Transceiver	J9152A
HP X132 10G SFP+ LC ER Transceiver	J9153A
HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HP X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable	J9300A
HP X244 10G XFP to SFP+ 3m Direct Attach Copper Cable	J9301A
HP X244 10G XFP to SFP+ 5m Direct Attach Copper Cable	J9302A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A
HP 3800-24G-2XG Switch (J9585A)	
HP X311 400W 100-240VAC to 12VDC Power Supply	J9581A
HP 3800-48G-4XG Switch (J9586A)	
HP X311 400W 100-240VAC to 12VDC Power Supply	J9581A
HP 3800-24G-PoE+-2XG Switch (J9587A)	
HP X312 1000W 100-240VAC to 54VDC Power Supply	J9580A
HP 3800-48G-PoE+-4XG Switch (J9588A)	
HP X312 1000W 100-240VAC to 54VDC Power Supply	J9580A
HP 3800-24SFP-2SFP+ Switch (J9584A)	
HP X132 10G SFP+ LC LR Transceiver	J9151A
HP X132 10G SFP+ LC LRM Transceiver	J9152A
HP X132 10G SFP+ LC ER Transceiver	J9153A
HP X111 100M SFP LC FX Transceiver	J9054C
HP X112 100M SFP LC BX-D Transceiver	J9099B
HP X112 100M SFP LC BX-U Transceiver	J9100B
HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283B
HP X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285B
HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable	J9300A
HP X244 10G XFP to SFP+ 3m Direct Attach Copper Cable	J9301A
HP X244 10G XFP to SFP+ 5m Direct Attach Copper Cable	J9302A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A

Accessories

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

Accessory Product Details

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

HP 3800 4-port Stacking Module (J9577A)	Management Services	<p>HP PCM+; HP PCM; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)</p> <p>Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>
HP X410 1U Universal 4-post Rack Mounting Kit (J9583A)	Notes Services	<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> <p>Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>
HP X121 1G SFP LC SX Transceiver (J4858C) A small form-factor pluggable (SFP) Gigabit SX transceiver that provides a full-duplex Gigabit solution up to 550 m on multimode fiber.	Ports Physical characteristics Environment Electrical characteristics Cabling	<p>1 LC 1000BASE-SX port; Duplex: full only</p> <p>Dimensions: 2.24(d) x 0.54(w) x 0.48(h) in. (5.69 x 1.37 x 1.22 cm)</p> <p>Weight: 0.04 lb. (0.02 kg)</p> <p>Transceiver form factor: SFP</p> <p>Operating temperature: 32°F to 158°F (0°C to 70°C)</p> <p>Operating relative humidity: 5% to 85%, noncondensing</p> <p>Nonoperating/Storage temperature: -40°F to 203°F (-40°C to 85°C)</p> <p>Altitude: up to 10,000 ft. (3 km)</p> <p>Power consumption typical: 0.4 W</p> <p>Power consumption maximum: 0.7 W</p> <p>Type:</p> <ul style="list-style-type: none"> 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; <p>Maximum distance:</p> <ul style="list-style-type: none"> 2-220 m (62.5 µm core diameter, 160 MHz*km bandwidth) 2-275 m (62.5 µm core diameter, 200 MHz*km bandwidth) 2-500 m (50 µm core diameter, 400 MHz*km bandwidth) 2-550 m (50 µm core diameter, 500 MHz*km bandwidth) <p>Cable length: 2-550m</p> <p>Fiber type: Multi Mode</p> <p>Services</p> <p>Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>

Accessory Product Details

<p>HP X121 1G SFP LC LX Transceiver (J4859C)</p>	<p>Ports Physical characteristics</p>	<p>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)</p>
<p>HP X121 1G SFP LC LX Transceiver: An SFP format gigabit transceiver with LC connectors using LX technology.</p>	<p>Environment Cabling</p>	<p>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:</p> <ul style="list-style-type: none"> • 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; <p>Maximum distance:</p> <ul style="list-style-type: none"> • 2-550 m (multimode 62.5 μm core diameter, 500 MHz*km bandwidth) • 2-550 m (multimode 50 μm core diameter, 400 MHz*km bandwidth) • 2-550 m (multimode 50 μm core diameter, 500 MHz*km bandwidth) • 2-10,000 m (single-mode fiber)
	<p>Notes</p>	<p>A mode conditioning patch cord may be needed in some multimode fiber installations. Wavelength: 1310nm</p>
	<p>Services</p>	<p>Power Consumption: < 500mW Typical Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>

<p>HP X121 1G SFP LC LH Transceiver (J4860C)</p>	<p>Ports Physical characteristics</p>	<p>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)</p>
<p>A small form-factor pluggable (SFP) Gigabit LH transceiver that provides a full-duplex Gigabit solution up to 70 km on single-mode fiber.</p>	<p>Environment Cabling</p>	<p>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:</p> <ul style="list-style-type: none"> • Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1; <p>Maximum distance:</p>

Accessory Product Details

- 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 HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 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: <ul style="list-style-type: none"> • 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. 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 HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Accessory Product Details

<p>HP X122 1G SFP LC BX-D Transceiver (J9142B)</p> <p>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.</p>	<p>Ports</p> <p>1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-D); Duplex: full only</p> <p>Physical characteristics</p> <p>Dimensions 2.19(d) x 0.54(w) x 0.46(h) in. (5.57 x 1.37 x 1.18 cm)</p> <p>Weight 0.04 lb. (0.02 kg)</p> <p>Environment</p> <p>Operating temperature 32°F to 158°F (0°C to 70°C)</p> <p>Operating relative humidity 0% to 95%, non-condensing</p> <p>Non-operating/Storage temperature -40°F to 185°F -40°C to 85°C</p> <p>Cabling</p> <p>Type: Single-mode fiber optic, complying with ITU-T G.652;</p> <p>Maximum distance:</p> <ul style="list-style-type: none"> • 0.5-10,000 m (single-mode fiber) <p>Notes</p> <p>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.)</p> <p>Services</p> <p>Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>
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<p>HP X122 1G SFP LC BX-U Transceiver (J9143B)</p> <p>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 single-mode fiber. The J9143B connects to the J9142B "downstream" transceiver, or to any IEEE-standard 1000BASE-BX10-D ("downstream") device.</p>	<p>Ports</p> <p>1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-U); Duplex: full only</p> <p>Physical characteristics</p> <p>Dimensions 2.19(d) x 0.54(w) x 0.46(h) in. (5.57 x 1.37 x 1.18 cm)</p> <p>Weight 0.04 lb. (0.02 kg)</p> <p>Environment</p> <p>Operating temperature 32°F to 158°F (0°C to 70°C)</p> <p>Operating relative humidity 0% to 95%, non-condensing</p> <p>Non-operating/Storage temperature -40°F to 185°F -40°C to 85°C</p> <p>Cabling</p> <p>Type: Single-mode fiber optic, complying with ITU-T G.652;</p> <p>Maximum distance:</p> <ul style="list-style-type: none"> • 0.5-10,000 m (single-mode fiber) <p>Notes</p> <p>Transmit wavelength: 1310 nm. Receive wavelength: 1490 nm.</p>
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Accessory Product Details

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 HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP X132 10G SFP+ LC SR Transceiver (J9150A)

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.

Ports

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

Connectivity

Connector type LC

Wavelength 850 nm

Physical characteristics

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 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;

Maximum distance:

- 2-26m with 62.5 µm multimode cable @ 160 MHz*km
- 2-33m with 62.5 µm multimode cable @ 200 MHz*km
- 2-66m with 50 µm multimode cable @ 400 MHz*km
- 2-82m with 50 µm multimode cable @ 500 MHz*km
- 2-300m with 50 µm 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 HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP

Accessory Product Details

sales office.

HP X132 10G SFP+ LC LR Transceiver (J9151A)	Ports	1 LC 10-GbE port (IEEE 802.3ae Type 10Gbase-LR); Duplex: full only	
	Connectivity	Connector type	LC
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.	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)	
Environment	Weight	0.04 lb. (.02 kg)	
	Transceiver form factor	SFP+	
Electrical characteristics	Operating temperature	32°F to 158°F (0°C to 70°C)	
	Operating relative humidity	0% to 85%, noncondensing	
Cabling	Nonoperating/Storage temperature	-40°F to 185°F (-40°C to 85°C)	
	Altitude	up to 10,000 ft. (3 km)	
Notes	Power consumption typical	0.9 W	
	Power consumption maximum	1 W	
Services	Cable type:	Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1;	
	Maximum distance:	<ul style="list-style-type: none"> 2m-10km with 9/125 μm single-mode cable 	

HP X132 10G SFP+ LC LRM Transceiver (J9152A)	Ports	1 LC 10-GbE port (IEEE 802.3aq Type 10Gbase-LRM); Duplex: full only	
	Connectivity	Connector type	LC
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.	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)	
Environment	Weight	0.04 lb. (.02 kg)	
	Transceiver form factor	SFP+	
Services	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)		

Accessory Product Details

	Altitude	up to 10,000 ft. (3 km)
Electrical characteristics	Power consumption typical	0.7 W
	Power consumption maximum	1 W
Cabling	Cable type: 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 (a mode conditioning patch cord may be needed in some multimode fiber installations); Maximum distance:	
	<ul style="list-style-type: none"> • 0.5-220m with 62.5 µm multimode cable @ 160/500 MHz*km • 0.5-220m with 62.5 µm multimode cable @ 200/500 MHz*km • 0.5-100m with 50 µm multimode cable @ 400/400 MHz*km • 0.5-220m with 50 µm multimode cable @ 500/500 MHz*km • 0.5-220m with 50 µm multimode cable @ 1500/500 MHz*km 	
Notes	Cable length	0.5m to 220m
	Fiber type	Multi Mode
Services	For OM3 cable (50 µm 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.	
	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

HP X132 10G SFP+ LC ER Transceiver (J9153A)

The SFP+ ER Transceiver will transmit 10Gbps over up to 40km using standard OM3 fiber cable. This product expands the HP Networking transceiver portfolio for connections from 0m to 40km. Use only genuine HP transceivers with your HP Networking equipment to ensure reliability and support.

Ports	1 LC 10-GbE port (IEEE 802.3ae Type 10Gbase-ER); Duplex: full only	
	Connectivity	Connector type
Physical characteristics	Wavelength	LC
	Dimensions	1550 nm
Environment	Weight	2.22(d) x 0.55(w) x 0.47(h) in. (5.65 x 1.39 x 1.19 cm)
	Transceiver form factor	.04 lb., Fully loaded
Electrical characteristics	Operating temperature	SFP+
	Operating relative humidity	32°F to 158°F (0°C to 70°C)
Electrical characteristics	Nonoperating/Storage temperature	5% to 95%, noncondensing
	Nonoperating/Storage relative humidity	-40°F to 185°F (-40°C to 85°C)
Electrical characteristics	Altitude	5% to 95%, noncondensing
	Power consumption typical	up to 10,000 ft. (3 km)
Electrical characteristics	Power consumption	1.3 W
	Power consumption	1.5 W

Accessory Product Details

Cabling	<p>maximum</p> <p>Cable type: Single-mode fiber optic, complying with ITU-T G.652; Maximum distance:</p> <ul style="list-style-type: none"> • 40km
Notes	<p>Fiber type Single Mode</p> <p>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.</p>
Services	<p>Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>

HP 0.5 m Multimode OM3 Cabling LC/LC Optical Cable (AJ833A)

Notes	<p>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</p> <p>Maximum distance: 10Gbps Transfer Rate (Ethernet): 300m</p> <p>Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 µm fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.</p> <ul style="list-style-type: none"> • Dimensions: Core diameter: 50 ± 3.0µm Cladding diameter: 125 ± 2.0µm Coating diameter: 245 ± 10µm • Optical glass: Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. • Optical glass: Bandwidth: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. • CABLE: The cable is duplex zipcord graded index 50/125µm 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	<p>Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about</p>

Accessory Product Details

services and response times in your area, please contact your local HP sales office.

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

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 μm fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

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

Services

Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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

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 μm 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: $245 \pm 10\mu\text{m}$

Accessory Product Details

- 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 HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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

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: This specification defines the detail requirements for a tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- 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.

Accessory Product Details

- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

Services

Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 15 m Multimode OM3 LC/LC Optical 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 µm fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.

- Dimensions: Core diameter: 50 ± 3.0µm Cladding diameter: 125 ± 2.0µm Coating diameter: 245 ± 10µm
- 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 50/125µm 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 HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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

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

Accessory Product Details

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 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 HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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

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

Accessory Product Details

- 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 HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 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 @ 1310nm @ 23°C as tested in accordance with EIA 455-45

Services

Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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

Notes

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

- Core diameter: 50um ±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

Accessory Product Details

	<p>Services</p>	<p>@ 23°C as tested in accordance with EIA 455-45</p> <p>Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>
<p>HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable (QK734A)</p>	<p>Notes</p> <p>Services</p>	<p>Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.</p> <ul style="list-style-type: none"> • 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 <p>Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>
<p>HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable (QK735A)</p>	<p>Notes</p> <p>Services</p>	<p>Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.</p> <ul style="list-style-type: none"> • 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 <p>Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>
<p>HP Premier Flex LC/LC Multi-mode OM4 2 fiber</p>	<p>Notes</p>	<p>Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors</p>

Accessory Product Details

30m Cable (QK736A)

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 HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 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 HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP X242 SFP+ SFP+ 1 m Direct Attach 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 5% to 95%, noncondensing

Accessory Product Details

		relative humidity	
		Altitude	up to 10,000 ft. (3 km)
Electrical characteristics	Notes		0.04 watts maximum per transceiver end
Notes	Electrical Properties		<ul style="list-style-type: none"> • Cable Characteristic Impedance: 100 ohms • Crosstalk between pairs: 2% max • Time delay: 1.31 nsec/ft
	Physical Properties		<ul style="list-style-type: none"> • Cable Diameter: 0.180" • Minimum Cable Bend Radius: 1.0"
Services			Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.
HP X242 SFP+ SFP+ 3 m Direct Attach Cable (J9283B)	Connectivity	Length	10 ft. (3 m)
	Physical characteristics	Weight	.49 lb. (0.22 kg), Fully loaded 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	<ul style="list-style-type: none"> • Cable Characteristic Impedance: 100 ohms • Crosstalk between pairs: 2% max • Time delay: 1.31 nsec/ft
		Physical Properties	<ul style="list-style-type: none"> • Cable Diameter: 0.180" • Minimum Cable Bend Radius: 1.0"
	Services		Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.
HP X242 SFP+ SFP+ 7 m Direct Attach Cable (J9285B)	Connectivity	Length	22.97 ft. (7 m)
	Physical characteristics	Weight	1.02 lb., Fully loaded 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	5% to 95%, noncondensing

Accessory Product Details

		relative humidity	
		Altitude	up to 10,000 ft. (3 km)
	Electrical characteristics	Notes	0.04 watts maximum per transceiver end
	Notes	Electrical Properties	<ul style="list-style-type: none"> • Cable Characteristic Impedance: 100 ohms • Crosstalk between pairs: 2% max • Time delay: 1.31 nsec/ft
		Physical Properties	<ul style="list-style-type: none"> • Cable Diameter: 0.180" • Minimum Cable Bend Radius: 1.0"
	Services	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	
<hr/>			
HP X244 XFP SFP+ 1 m Direct Attach Cable (J9300A)	Connectivity	Length	3.28 ft. (1 m)
	Physical characteristics	Weight	.27 lb. (0.12 kg), Fully loaded cable with XFP transceiver on one end and SFP+ on the other end
A 1m direct attach copper cable with an XFP connector attached on 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.	Environment	Operating temperature	32°F to 158°F (0°C to 70°C)
		Operating relative humidity	5% to 95%, noncondensing
		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)
	Notes	XFP end consumes 2 watts SFP+ end consumes 0.036 watts	
	Services	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	
<hr/>			
HP X244 XFP SFP+ 3 m Direct Attach Cable (J9301A)	Connectivity	Length	9.84 ft. (3 m)
	Physical characteristics	Weight	.51 lb. (0.23 kg), Fully loaded cable with XFP transceiver on one end and SFP+ on the other end
A 3m direct attach copper cable with an XFP connector attached on 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.	Environment	Operating temperature	32°F to 158°F (0°C to 70°C)
		Operating relative humidity	5% to 95%, noncondensing
		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)
	Cabling	Maximum distance:	<ul style="list-style-type: none"> • 3m Direct Attach Cable
	Notes	XFP end consumes 2 watts SFP+ end consumes 0.036 watts	

Accessory Product Details

factors.	Services	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.		
HP X244 XFP SFP+ 5 m Direct Attach Cable (J9302A) A 5m direct attach copper cable with an XFP connector attached on 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.	Connectivity	Length	16.4 ft. (5 m)	
		Physical characteristics	Weight	.74 lb. (0.34 kg), Fully loaded cable with XFP transceiver on one end and SFP+ on the other end
	Environment		Operating temperature	32°F to 158°F (0°C to 70°C)
		Operating relative humidity	5% to 95%, noncondensing	
		Nonoperating/Storage temperature	32°F to 158°F (0°C to 70°C)	
		Nonoperating/Storage relative humidity	5% to 95%, noncondensing	
	Notes	Altitude	up to 10,000 ft. (3 km)	
		Services	XFP end consumes 2 watts SFP+ end consumes 0.036 watts Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	
	HP X111 100M SFP LC FX Transceiver (J9054C)	Ports	1 LC 100BASE-FX port (IEEE 802.3u Type 100BASE-FX); Duplex: half or full	
			Physical characteristics	Dimensions
Environment		Weight		0.06 lb. (0.03 kg)
		Operating temperature	32°F to 158°F (0°C to 70°C)	
		Operating relative humidity	5% to 95%	
		Nonoperating/Storage temperature	-40°F to 185°F (-40°C to 85°C)	
Cabling		Nonoperating/Storage relative humidity	5% to 85%	
		Altitude	up to 10,000 ft. (3 km)	
		Notes	Cable type: 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; Maximum distance: • 2 km (full duplex) or 412 m (half duplex)	
Services		Transmitter wavelength: 1310nm Power consumption is 1.1 watt maximum. 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. Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.		

Accessory Product Details

HP X112 100M SFP LC BX-D Transceiver (J9099B)

A small form-factor pluggable (SFP) 100-Megabit BX (bi-directional) "downstream" transceiver that provides 100 Mbps full-duplex connectivity up to 10 km on one strand of singlemode fiber. The J9099B connects to the J9100B "upstream" transceiver, or to any IEEE-standard 100BASE-BX10-U ("upstream") device.

Ports	1 LC 100BASE-BX10 port (IEEE 802.3ah Type 100BASE-BX10-D); Duplex: full only						
Physical characteristics	<table border="0"> <tr> <td style="vertical-align: top;">Dimensions</td> <td>2.7(d) x 0.55(w) x 0.48(h) in. (6.86 x 1.39 x 1.22 cm)</td> </tr> <tr> <td style="vertical-align: top;">Weight</td> <td>0.04 lb. (0.03 kg)</td> </tr> </table>	Dimensions	2.7(d) x 0.55(w) x 0.48(h) in. (6.86 x 1.39 x 1.22 cm)	Weight	0.04 lb. (0.03 kg)		
Dimensions	2.7(d) x 0.55(w) x 0.48(h) in. (6.86 x 1.39 x 1.22 cm)						
Weight	0.04 lb. (0.03 kg)						
Environment	<table border="0"> <tr> <td style="vertical-align: top;">Operating temperature</td> <td>32°F to 158°F (0°C to 70°C)</td> </tr> <tr> <td style="vertical-align: top;">Operating relative humidity</td> <td>0% to 95%, noncondensing</td> </tr> <tr> <td style="vertical-align: top;">Nonoperating/Storage temperature</td> <td>-40°F to 185°F (-40°C to 85°C)</td> </tr> </table>	Operating temperature	32°F to 158°F (0°C to 70°C)	Operating relative humidity	0% to 95%, noncondensing	Nonoperating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
Operating temperature	32°F to 158°F (0°C to 70°C)						
Operating relative humidity	0% to 95%, noncondensing						
Nonoperating/Storage temperature	-40°F to 185°F (-40°C to 85°C)						
Cabling	<p>Type:</p> <p>Single-mode fiber optic, complying with ITU-T G.652;</p> <p>Maximum distance:</p> <ul style="list-style-type: none"> • 0.5-10,000 m (single-mode fiber) 						
Notes	<p>Transmit wavelength: 1550 nm. Receive wavelength: 1310 nm. 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 HP BX Transceivers" on the "HP Mini-GBICs and SFPs" Manuals Web page.</p> <p>The J9099B connects to the J9100B "upstream" transceiver, or to any IEEE-standard 100BASE-BX10-U ("upstream") device. (A 100-BX-D transceiver can only connect to a 100-BX-U product. You cannot connect two 100-BX-D transceivers together.)</p>						
Services	<p>Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.</p>						

HP X112 100M SFP LC BX-U Transceiver (J9100B)

A small form-factor pluggable (SFP) 100-Megabit BX (bi-directional) "upstream" transceiver that provides 100 Mbps full-duplex connectivity up to 10 km on one strand of singlemode fiber. The J9100B connects to the J9099B "downstream" transceiver, or to any IEEE-standard 100BASE-BX10-D ("downstream")

Ports	1 LC 100BASE-BX10 port (IEEE 802.3ah Type 100BASE-BX10-U); Duplex: full only						
Physical characteristics	<table border="0"> <tr> <td style="vertical-align: top;">Dimensions</td> <td>2.7(d) x 0.55(w) x 0.48(h) in. (6.86 x 1.39 x 1.22 cm)</td> </tr> <tr> <td style="vertical-align: top;">Weight</td> <td>0.07 lb. (.03 kg)</td> </tr> </table>	Dimensions	2.7(d) x 0.55(w) x 0.48(h) in. (6.86 x 1.39 x 1.22 cm)	Weight	0.07 lb. (.03 kg)		
Dimensions	2.7(d) x 0.55(w) x 0.48(h) in. (6.86 x 1.39 x 1.22 cm)						
Weight	0.07 lb. (.03 kg)						
Environment	<table border="0"> <tr> <td style="vertical-align: top;">Operating temperature</td> <td>32°F to 158°F (0°C to 70°C)</td> </tr> <tr> <td style="vertical-align: top;">Operating relative humidity</td> <td>0% to 95%, noncondensing</td> </tr> <tr> <td style="vertical-align: top;">Nonoperating/Storage temperature</td> <td>-40°F to 185°F (-40°C to 85°C)</td> </tr> </table>	Operating temperature	32°F to 158°F (0°C to 70°C)	Operating relative humidity	0% to 95%, noncondensing	Nonoperating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
Operating temperature	32°F to 158°F (0°C to 70°C)						
Operating relative humidity	0% to 95%, noncondensing						
Nonoperating/Storage temperature	-40°F to 185°F (-40°C to 85°C)						
Cabling	<p>Type:</p> <p>Single-mode fiber optic, complying with ITU-T G.652;</p> <p>Maximum distance:</p>						

Accessory Product Details

device.

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

Notes

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 J9100B connects to the J9099B "downstream" transceiver, or to any IEEE-standard 100BASE-BX10-D ("downstream") device. (A 100-BX-U transceiver can only connect to a 100-BX-D product. You cannot connect two 100-BX-U transceivers together.)

Transmit wavelength: 1310 nm. Receive wavelength: 1550 nm.

Power consumption is 1.1 watts maximum.

Services

Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Summary of Changes

Date	Version History	Action	Description of Change:
December 12, 2014	From Version 18 to 19	Changed	Added Power Supply SKUs on the Accessories section: <ul style="list-style-type: none"> • HP X311 400W 100-240VAC to 12VDC Power Supply (J9581A) • HP X312 1000W 100-240VAC to 54VDC Power Supply (J9580A)
December 1, 2014	From Version 17 to 18	Changed	Overview, Features and benefits, Specifications, Warranty and support, Accessories were revised.
July 3, 2014	From Version 16 to 17	Changed	Configuration menu updated.
February 17, 2014	From Version 14 to 16	Changed	SFP+ Transceivers were revised.
November 12, 2013	From Version 13 to 14	Changed	Note was revised in Box Level Integration CTO Models in Configuration.
October 18, 2013	From Version 12 to 13	Changed	Configuration was revised.
September 27, 2013	From Version 11 to 12	Changed	Notes section was reconfigured in Configuration.
July 2, 2013	From Version 10 to 11	Added	Added J9150A - HP X132 10G SFP+ LC SR Transceiver to Note 1 in the Configuration section.
June 10, 2013	From Version 9 to 10	Added	OM4 cables were added.
May 14, 2013	From Version 8 to 9	Changed	Updated the Configuration section.
April 22, 2013	From Version 7 to 8	Added	Overview: Added an image.
March 25, 2013	From Version 6 to 7	Added	Added the Configuration section.
March 1, 2013	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.
September 24, 2012	From Version 4 to 5	Changed	The Introduction and Features and Benefits. Minor changes were made to the specifications for the switches.
June 25, 2012	From Version 3 to 4	Changed	Features and Benefits and the weight and dimensions for each spec were revised.
May 14, 2012	From Version 2 to 3	Changed	Features and Benefits, Accessories, and the weight and dimensions for each spec were revised.
October 4, 2011	From Version 1 to 2	Changed	Accessories, Accessory Product Details, Models, Features and Benefits, and the Specifications were updated.

Summary of Changes

To learn more, visit: www.hp.com/networking

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