

Overview

HPE FlexFabric 5940 Switch Series



Models

HPE FlexFabric 5940 48SFP+ 6QSFP+ Switch	JH395A
HPE FlexFabric 5940 32QSFP+ Switch	JH396A
HPE FlexFabric 5940 48XGT 6QSFP+ Switch	JH394A
HPE FlexFabric 5940 48SFP+ 6QSFP28 Switch	JH390A
HPE FlexFabric 5940 48XGT 6QSFP28 Switch	JH391A
HPE FlexFabric 5940 2-slot Switch	JH397A
HPE FlexFabric 5940 4-slot Switch	JH398A
HPE FlexNetwork 5940 48p 10GbE SFP/SFP+ and 6p 40/100GbE QSFP28 with 2 Fans 2 PS Switch Bundle	JH684A
HPE FlexNetwork 5940 48p 10GBaseT and 6p 40/100GbE QSFP28 with 2 Fans 2 PS Switch Bundle	JH685A
HPE FlexNetwork 5940 32-port 40GbE QSFP+ with 2 Fans 2 Power Supply Switch Bundle	JH686A
HPE FlexNetwork 5940 2-slot Chassis with 2 Fans 2 Power Supply Bundle	JH691A
HPE FlexNetwork 5940 4-slot Chassis with 2 Fans 4 Power Supply Bundle	JH692A

Key features

- VXLAN L2 and L3 and EVPN support for virtualized environments
- OpenFlow support for investment protection and SDN environments
- High-density 10GbE, 40GbE with 40G or 100G uplink and modular for spine-and-leaf deployments
- Unify management of virtual and physical network with VEPA and IMC
- Data center convergence and resiliency with SPB, ISSU, DCB, FC/FCoE, IRF, and TRILL

Product overview

The HPE FlexFabric 5940 Switch Series is a family of high performance and low-latency 10GbE, 40GbE top-of-rack (ToR) data center switches. The switch series include also 100G uplink technology and also a 2-slot and 4-slot modular form factor providing

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ultimate flexibility for an ever-changing Data Center requirements. This entire series is part of the Hewlett Packard Enterprise FlexFabric data center solution, which is a cornerstone of the FlexNetwork architecture.

The FlexFabric 5940 Switch Series is ideally suited for deployment at the aggregation or server access layer of large enterprise data centers, or at the core layer of medium-sized enterprises.

With the increase pace of deploying virtualized applications, adopting software-defined networking, and the server-to-server traffic, many data centers now require spine and ToR switch innovations that will meet their requirements. The HPE FlexFabric 5940 is optimized to meet the increasing requirements for higher-performance server connectivity, convergence of Ethernet and storage traffic, the capability to handle virtual environments, and low-latency.

Features and benefits

Quality of Service (QoS)

- **Powerful QoS features**
 - **Flexible queue scheduling:** including Strict Priority (SP), WRR, WDRR, WFQ, SP+WRR, SP+WDRR, SP+WFQ, Configurable Buffer, Time range, Queue Shaping, CAR with 8kbps granularity.
 - **Packet filtering and remarking:** Packet filtering at L2 (Layer 2) through L4 (Layer 4); flow classification based on source MAC address, destination MAC address, source IP (IPv4/IPv6) address, destination IP (IPv4/IPv6) address, port, protocol, and VLAN.
provides nonblocking, lossless Clos architecture with VOQs and large buffers with the flexibility and scalability for future growth

Data center optimized

- **Flexible high port density**
5940 switch enables customers to scale their server-edge 10/40/100 GbE ToR deployments to new heights with high-density 48 x 10 GbE ports with 6 ports of 40G, 48 x 10 GbE ports with 6 ports of 100G and 32 x 40 GbE delivered in a 1RU design; the 5940 32 ports of 40G switch can also be configured as a 72 x 10 GbE port device by using a 40G-to-10 GbE splitter cable that turns each 40 GbE port into four 10-GbE ports. The 48 ports models comes in SFP+ or BASE-T
- **High-performance switching**
cut-through and nonblocking architecture delivers low latency (~1 microsecond for 10GbE) for very demanding enterprise applications; the switch delivers high-performance switching capacity and wire-speed packet forwarding
- **Higher scalability**
Hewlett Packard Enterprise Intelligent Resilient Fabric (IRF) technology simplifies the architecture of server access networks; up to nine HPE 5940 switches can be combined to deliver unmatched scalability of virtualized access layer switches and flatter two-tier networks using IRF, which reduces cost and complexity
- **Advanced modular operating system**
Comware v7 software's modular design and multiple processes bring native high stability, independent process monitoring, and restart; the OS also allows individual software modules to be upgraded for higher availability and supports enhanced serviceability functions like hitless software upgrades
- **Reversible airflow**
enhanced for data center hot-cold aisle deployment with reversible airflow—for either front-to-back or back-to-front airflow
- **Redundant fans and power supplies**
Internal redundant and hot-pluggable power supplies and dual fan trays enhance reliability and availability
- **Lower OPEX and greener data center**
provide reversible airflow and advanced chassis power management
- **Data Center Bridging (DCB) protocols**
provides support for IEEE 802.1Qbb Priority Flow Control (PFC), Data Center Bridging Exchange (DCBX), IEEE 802.1Qaz Enhanced Transmission Selection (ETS), Explicit Congestion Notification (ECN) for converged FCoE, iSCSI and RoCE environments
- **FCoE support**
provides support for T11 standards-compliant FC-BB-5 Fibre Channel over Ethernet (FCoE), including FCoE initialization

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protocol (FIP), FCP, Fiber Channel enhanced port types VE, TE and VF, NPV, NPIV, fabric name server, RSCN, login services, and name-server zoning, per-VSAN fabric services, FSPF, standard zoning and fiber channel ping

- **Jumbo frames**
with frame sizes of up to 10,000 bytes on Gigabit Ethernet and 10-Gigabit ports, allows high-performance remote backup and disaster-recovery services to be enabled
- **VXLAN hardware support**
VXLAN Layer 2 and Layer 3 gateway support for up to 4k tunnels
- **Dynamic VXLAN configuration**
OVSDB & ML2 support for dynamic VXLAN configuration
- **EVPN**
Control plane protocol for VXLAN based on industry standards. It enables Layer-2 and Layer-3 control-plane learning of end-host reachability information, enabling organizations to scale their VXLAN infrastructure better. Integration with Openstack Neutron plugin for overlay automation/orchestration

Manageability

- **Full-featured console**
provides complete control of the switch with a familiar CLI
- **Troubleshooting**
 - **Ingress and egress port monitoring:** enable network problem solving
 - **Traceroute and ping:** enable testing of network connectivity
- **Multiple configuration files**
allow multiple configuration files to be stored to a flash image
- **SNMP v1, v2c and v3**
facilitate centralized discovery, monitoring, and secure management of networking devices
- **Out-of-band interface**
isolates management traffic from user data plane traffic for complete isolation and total reachability, no matter what happens in the data plane
- **Remote configuration and management**
delivered through a secure command-line interface (CLI) over Telnet and SSH; role-based access control (RBAC) provides multiple levels of access; configuration rollback and multiple configurations on the flash provide ease of operation; remote visibility is provided with sFlow and SNMP v1/v2/v3, and is fully supported in HPE Intelligent Management Center (IMC)
- **ISSU and hot patching**
In Services Software Upgrade (ISSU) provides hitless software upgrades and hitless patching of the modular operating system
- **Autoconfiguration**
provides automatic configuration via DHCP autoconfiguration
- **NTP, SNTP**
synchronizes timekeeping among distributed time servers and clients; support for network time protocol (NTP), secure network time protocol (SNTP)

Resiliency and high availability

- **IRF technology**
enables an Hewlett Packard Enterprise FlexFabric to deliver resilient, scalable, and secured data center networks for physical and virtualized environments; groups up to nine HPE 5940 switches in an IRF configuration, allowing them to be configured and managed as a single switch with a single IP address; simplifies ToR deployment and management, reducing data center deployment and operating expenses
- **IEEE 802.1w Rapid Convergence Spanning Tree Protocol**
increases network uptime through faster recovery from failed links
- **IEEE 802.1s Multiple Spanning Tree**
provides high link availability in multiple VLAN environments by allowing multiple spanning trees
- **Virtual Router Redundancy Protocol (VRRP)**
allows groups of two routers to back each other up dynamically to create highly available routed environments

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- **Hitless patch upgrades**
allows patches and new service features to be installed without restarting the equipment, increasing network uptime and facilitating maintenance
- **Ultrafast protocol convergence (< 50 ms) with standard-based failure detection—Bidirectional Forwarding Detection (BFD)**
enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP, IS-IS, VRRP, MPLS, and IRF
- **Device Link Detection Protocol (DLDP)**
monitors link connectivity and shuts down ports at both ends if unidirectional traffic is detected, preventing loops in STP-based networks
- **Graceful restart**
allows routers to indicate to others their capability to maintain a routing table during a temporary shutdown and significantly reduces convergence times upon recovery; supports OSPF, BGP, and IS-IS

Layer 2 switching

- **MAC-based VLAN**
provides granular control and security; uses RADIUS to map a MAC address/user to specific VLANs
- **Address Resolution Protocol (ARP)**
supports static, dynamic, and reverse ARP and ARP proxy
- **IEEE 802.3x Flow Control**
provides intelligent congestion management via PAUSE frames
- **Ethernet Link Aggregation**
provides IEEE 802.3ad Link Aggregation of up to 128 groups of 32 ports; support for LACP, LACP Local Forwarding First, and LACP Short-time provides a fast, resilient environment that is ideal for the data center
- **Spanning Tree Protocol (STP)**
supports STP (IEEE 802.1D), Rapid STP (RSTP, IEEE 802.1w), and Multiple STP (MSTP, IEEE 802.1s)
- **VLAN support**
provides support for 4,096 VLANs based on port, MAC address, IPv4 subnet, protocol, and guest VLAN; supports VLAN mapping
- **IGMP support**
provides support for IGMP Snooping, Fast-Leave, and Group-Policy; IPv6 IGMP Snooping provides Layer 2 optimization of multicast traffic
- **DHCP support at Layer 2**
provides full DHCP Snooping support for DHCP Snooping Option 82, DHCP Relay Option 82, DHCP Snooping trust, and DHCP Snooping item backup

Layer 3 services

- **Address Resolution Protocol (ARP)**
determines the MAC address of another IP host in the same subnet; supports static ARPs; gratuitous ARP allows detection of duplicate IP addresses; proxy ARP allows normal ARP operation between subnets or when subnets are separated by a Layer 2 network
- **Dynamic Host Configuration Protocol (DHCP)**
simplifies the management of large IP networks and supports client and server; DHCP Relay enables DHCP operation across subnets
- **Operations, administration and maintenance (OAM) support**
provides support for Connectivity Fault Management (IEEE 802.1AG) and Ethernet in the First Mile (IEEE 802.3AH); provides additional monitoring that can be used for fast fault detection and recovery

Layer 3 routing

- **Virtual Router Redundancy Protocol (VRRP) and VRRP Extended**
allow quick failover of router ports

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- **Policy-based routing**
makes routing decisions based on policies set by the network administrator
- **Equal-Cost Multipath (ECMP)**
enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth
- **Layer 3 IPv4 routing**
provides routing of IPv4 at media speed; supports static routes, RIP and RIPv2, OSPF, BGP, and IS-IS
- **Open shortest path first (OSPF)**
delivers faster convergence; uses this link-state routing Interior Gateway Protocol (IGP), which supports ECMP, NSSA, and MD5 authentication for increased security and graceful restart for faster failure recovery
- **Border Gateway Protocol 4 (BGP-4)**
delivers an implementation of the Exterior Gateway Protocol (EGP) utilizing path vectors; uses TCP for enhanced reliability for the route discovery process; reduces bandwidth consumption by advertising only incremental updates; supports extensive policies for increased flexibility; scales to very large networks
- **Intermediate system to intermediate system (IS-IS)**
uses a path vector Interior Gateway Protocol (IGP), which is defined by the ISO organization for IS-IS routing and extended by IETF RFC 1195 to operate in both TCP/IP and the OSI reference model (Integrated IS-IS)
- **Static IPv6 routing**
provides simple manually configured IPv6 routing
- **Dual IP stack**
maintains separate stacks for IPv4 and IPv6 to ease the transition from an IPv4-only network to an IPv6-only network design
- **Routing Information Protocol next generation (RIPng)**
extends RIPv2 to support IPv6 addressing
- **OSPFv3**
provides OSPF support for IPv6
- **BGP+**
extends BGP-4 to support Multiprotocol BGP (MBGP), including support for IPv6 addressing
- **IS-IS for IPv6**
extends IS-IS to support IPv6 addressing
- **IPv6 tunneling**
allows IPv6 packets to traverse IPv4-only networks by encapsulating the IPv6 packet into a standard IPv4 packet; supports manually configured, 6to4, and Intra-Site Automatic Tunnel Addressing Protocol (ISATAP) tunnels; is an important element for the transition from IPv4 to IPv6
- **Policy routing**
allows custom filters for increased performance and security; supports ACLs, IP prefix, AS paths, community lists, and aggregate policies
- **Bidirectional Forwarding Detection (BFD)**
enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP, IS-IS, VRRP, MPLS, and IRF
- **Multicast Routing PIM Dense and Sparse modes**
provides robust support of multicast protocols
- **Layer 3 IPv6 routing**
provides routing of IPv6 at media speed; supports static routing, RIPng, OSPFv3, BGP4+ for IPv6, and IS-ISv6

Additional information

- **Green IT and power**
improves energy efficiency through the use of the latest advances in silicon development; shuts off unused ports and utilizes variable-speed fans, reducing energy costs

Management

- **USB support**
 - **File copy:** allows users to copy switch files to and from a USB flash drive

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- **Port mirroring**
enables traffic on a port to be simultaneously sent to a network analyzer for monitoring
- **Remote configuration and management**
is available through a CLI
- **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
- **sFlow (RFC 3176)**
provides scalable ASIC-based wirespeed network monitoring and accounting with no impact on network performance; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes
- **Command authorization**
leverages RADIUS to link a custom list of CLI commands to an individual network administrator's login; an audit trail documents activity
- **Dual flash images**
provides independent primary and secondary operating system files for backup while upgrading
- **Command-line interface (CLI)**
provides a secure, easy-to-use CLI for configuring the module via SSH or a switch console; provides direct real-time session visibility
- **Logging**
provides local and remote logging of events via SNMP (v2c and v3) and syslog; provides log throttling and log filtering to reduce the number of log events generated
- **Management interface control**
provides management access through a modem port and terminal interface, as well as in-band and out-of-band Ethernet ports; provides access through terminal interface, Telnet, or secure shell (SSH)
- **Industry-standard CLI with a hierarchical structure**
reduces training time and expenses, and increases productivity in multivendor installations
- **Management security**
restricts access to critical configuration commands; offers multiple privilege levels with password protection; ACLs provide Telnet and SNMP access; local and remote syslog capabilities allow logging of all access
- **Information center**
provides a central repository for system and network information; aggregates all logs, traps, and debugging information generated by the system and maintains them in order of severity; outputs the network information to multiple channels based on user-defined rules
- **Network management**
HPE IMC centrally configures, updates, monitors, and troubleshoots
- **Remote intelligent mirroring**
mirrors ingress/egress ACL-selected traffic from a switch port or VLAN to a local or remote switch port anywhere on the network

Security

- **Access control lists (ACLs)**
provide IP Layer 3 filtering based on source/destination IP address/subnet and source/destination TCP/UDP port number
- **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
- **IEEE 802.1X and RADIUS network logins**
controls port-based access for authentication and accountability
- **Port security**
allows access only to specified MAC addresses, which can be learned or specified by the administrator

Convergence

Overview

- **LLDP-MED (Media Endpoint Discovery)**

defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to configure automatically network devices such as IP phones

Warranty and support

- **1-year warranty**

see <http://www.hpe.com/networking/warrantysummary> for warranty and support information included with your product purchase.

- **Software releases**

to find software for your product, refer to <http://www.hpe.com/networking/support>; for details on the software releases available with your product purchase, refer to <http://www.hpe.com/networking/warrantysummary>

Configuration

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

Standard Switch Enclosures

HPE FlexFabric 5940 32QSFP+ Switch

- 32 QSFP+ ports (min=0 \ max=32)
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U - Height

JH396A
See Configuration
NOTE: 2

HPE FlexFabric 5940 2-slot Switch

- 2 QSFP+ ports (min=0 \ max=2)
- 2 port expansion module slots
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U - Height

JH397A
See Configuration
NOTE: 2

HPE FlexFabric 5940 4-slot Switch

- 4 port expansion module slots
- Must select min 2 Power Supply
- Must select min 2 Fan Trays
- 2U - Height

JH398A

HPE FlexFabric 5940 2-slot 2QSFP+ Front-to-Back AC Bundle

- 2 QSFP+ ports (min=0 \ max=2)
- 2 port expansion module slots
- Includes 2 Power Supply (JC680A)
- Includes 2 Fan Trays (JG552A)
- 1U - Height

JQ041A
See Configuration
NOTE: 2

PDU Cable NA/MEX/TW/JP

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

JQ041A#B2B

PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

JQ041A#B2C

High Volt Power Supply to Wall Power Cord

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

JQ041A#B2E

No Power Cord

- No Localized Power Cord Selected

JQ041A#AC3

HPE FlexFabric 5940 2-slot 2QSFP+ Back-to-Front AC Bundle

- 2 QSFP+ ports (min=0 \ max=2)
- 2 port expansion module slots
- Includes 2 Power Supply (JC680A)

JQ042A
See Configuration
NOTE: 2

Configuration

<ul style="list-style-type: none"> Includes 2 Fan Trays (JG553A) 1U - Height 	
PDU Cable NA/MEX/TW/JP	JQ042A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JQ042A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Power Supply to Wall Power Cord	JQ042A#B2E
<ul style="list-style-type: none"> NEMA L6-20P Cord (NA/MEX/JP/TW) 	
No Power Cord	JQ042A#AC3
<ul style="list-style-type: none"> No Localized Power Cord Selected 	
HPE FlexFabric 5940 4-slot Front-to-Back AC Bundle	JQ043A
<ul style="list-style-type: none"> 4 port expansion module slots Includes 4 Power Supply (JC680A) Includes 2 Fan Trays (JH186A) 2U - Height 	
PDU Cable NA/MEX/TW/JP	JQ043A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JQ043A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Power Supply to Wall Power Cord	JQ043A#B2E
<ul style="list-style-type: none"> NEMA L6-20P Cord (NA/MEX/JP/TW) 	
No Power Cord	JQ043A#AC3
<ul style="list-style-type: none"> No Localized Power Cord Selected 	
HPE FlexFabric 5940 4-slot Back-to-Front AC Bundle	JQ044A
<ul style="list-style-type: none"> 4 port expansion module slots Includes 4 Power Supply (JC680A) Includes 2 Fan Trays (JH185A) 2U - Height 	
PDU Cable NA/MEX/TW/JP	JQ044A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JQ044A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Power Supply to Wall Power Cord	JQ044A#B2E
<ul style="list-style-type: none"> NEMA L6-20P Cord (NA/MEX/JP/TW) 	
No Power Cord	JQ044A#AC3

Configuration

- No Localized Power Cord Selected

HPE FlexFabric 5940 48SFP+ 6QSFP+ Switch

- 48 SFP+ ports (min=0 \ max=48)
- 6 QSFP+ ports (min=0 \ max=6)
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U - Height

JH395A

See Configuration

NOTE: 1, 2, 4, 5

HPE FlexFabric 5940 48XGT 6QSFP+ Switch

- 48 1/10BaseT GbE ports (min=0 \ max=48)
- 6 QSFP+ ports (min=0 \ max=6)
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U - Height

JH394A

See Configuration

NOTE: 2, 5

HPE FlexFabric 5940 48SFP+ 6QSFP28 Switch

- 48 SFP+ ports (min=0 \ max=48)
- 6 QSFP28 ports (min=0 \ max=6)
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U - Height

JH390A

See Configuration

NOTE: 1, 3, 5, 7

HPE FlexFabric 5940 48XGT 6QSFP28 Switch

- 48 1/10BaseT GbE ports (min=0 \ max=48)
- 6 QSFP28 ports (min=0 \ max=6)
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U - Height

JH391A

See Configuration

NOTE: 3, 5, 7, 8

Configuration Rules

Note 1 The following SFP+ Transceivers install into this Switch:

HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X130 10G SFP+ LC SR Data Center Transceiver	JL437A
HPE X130 10G SFP+ LC LR Data Center Transceiver	JL439A
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A

Note 2 The following QSFP+ Transceivers install into this switch:

HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A

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HPE X140 40G QSFP+ LC LR4L 2km SM Transceiver	JL286A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A

Note 3 The following QSFP28 Transceivers install into this switch:

HPE X150 100G QSFP28 MPO SR4 100m MM Transceiver	JL274A
HPE X150 100G QSFP28 LC LR4 10km SM Transceiver	JL275A
HPE X2A0 100G QSFP28 to QSFP28 7m Active Optical Cable	JL276A
HPE X2A0 100G QSFP28 to QSFP28 10m Active Optical Cable	JL277A
HPE X2A0 100G QSFP28 to QSFP28 20m Active Optical Cable	JL278A
HPE X150 100G QSFP28 MPO PSM4 500m SM Transceiver	JH420A
HPE X150 100G QSFP28 CWDM4 2km SM Transceiver	JH673A
HPE X240 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable	JL271A
HPE X240 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable	JL272A
HPE X240 100G QSFP28 to QSFP28 5m Direct Attach Copper Cable	JL273A

Note 4 If this switch is configured for an NFV solution(Q0F04A - HPE NFV System V1.3 3Par Storage Block), default no less than the quantities specified below for the following components:

Qty 2 - JG553A (min 2)
 Qty 2 - JC680A (min 2)
 Qty 4 - JD092B (min 4)
 Qty 1 - JG326A (min 1)

Note 5 The following SFP Transceivers install into this Switch:

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

Note 6 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord) . (See Localization Menu)
 REMARK: When Switches/Routers are Factory Racked, Then #B2B, or #B2C should be the Defaulted Power Cable option on the Switches/Routers.

Note 7 The following 40G Transceivers install into this Module's QSFP+ Ports: (Use #OD1 or #B01 if switch is CTO) - if applicable

HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE X140 40G QSFP+ LC LR4L 2km SM Transceiver	JL286A

Configuration

HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A

Note 8 The following 100G Transceivers install into this Switch's QSFP28 Ports: (Use #0D1 or #B01 if switch is CTO) - if applicable

JH419A - HPE X150 100G QSFP28 SWDM4 100m MM XCVR

Remarks:

Drop down under power supply should offer the following options and results:

Switch/Router to PDU Power Cord - #B2B in NA, 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)

No Power Cord - #AC3 Option

OCA Only Model Selection Form -

HPE Offering > DataCenter Networking > FlexFabric Switches - Access: 5940 DCN Switch Series

Box Level Integration CTO Models

CTO Solution Sku

HPE 59xx CTO Switch Solution

- SSP trigger sku

JG505A
See Configuration
NOTE: 1

Configuration Rules

Note 1 Clic UNB - Min/Max 1 CTO switch per SSP.

CTO Switch Chassis

HPE FlexFabric 5940 32QSFP+ Switch

- 32 QSFP+ ports (min=0 \ max=32)
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U - Height

JH396A
See Configuration
NOTE: 2, 4

HPE FlexFabric 5940 2-slot Switch

- 2 QSFP+ ports (min=0 \ max=2)
- 2 port expansion module slots
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U - Height

JH397A
See Configuration
NOTE: 2, 4

Configuration

HPE FlexFabric 5940 4-slot Switch

- 4 port expansion module slots
- Must select min 2 Power Supply
- Must select min 2 Fan Trays
- 2U - Height

JH398A

See Configuration
NOTE: 4

HPE FlexFabric 5940 48SFP+ 6QSFP+ Switch

- 48 SFP+ ports (min=0 \ max=48)
- 6 QSFP+ ports (min=0 \ max=6)
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U - Height

JH395A

See Configuration
NOTE: 1, 2, 4, 5, 6

HPE FlexFabric 5940 48XGT 6QSFP+ Switch

- 48 1/10BaseT GbE ports (min=0 \ max=48)
- 6 QSFP+ ports (min=0 \ max=6)
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U - Height

JH394A

See Configuration
NOTE: 2, 4

HPE FlexFabric 5940 48SFP+ 6QSFP28 Switch

- 48 SFP+ ports (min=0 \ max=48)
- 6 QSFP28 ports (min=0 \ max=6)
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U - Height

JH390A

See Configuration
NOTE: 1, 3, 4, 6, 7

HPE FlexFabric 5940 48XGT 6QSFP28 Switch

- 48 1/10BaseT GbE ports (min=0 \ max=48)
- 6 QSFP28 ports (min=0 \ max=6)
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U - Height

JH391A

See Configuration
NOTE: 3, 4, 6, 7, 8

Configuration Rules

Note 1 The following SFP+ Transceivers install into this Switch: (Use #0D1 or #B01 if switch is CTO) - if applicable

HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X130 10G SFP+ LC SR Data Center Transceiver	JL437A
HPE X130 10G SFP+ LC LR Data Center Transceiver	JL439A
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A

Note 2 The following QSFP+ Transceivers install into this switch:

HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
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Configuration

HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A

Note 3 The following QSFP28 Transceivers install into this switch:

HPE X150 100G QSFP28 MPO SR4 100m MM Transceiver	JL274A
HPE X150 100G QSFP28 LC LR4 10km SM Transceiver	JL275A
HPE X2A0 100G QSFP28 to QSFP28 7m Active Optical Cable	JL276A
HPE X2A0 100G QSFP28 to QSFP28 10m Active Optical Cable	JL277A
HPE X2A0 100G QSFP28 to QSFP28 20m Active Optical Cable	JL278A
HPE X150 100G QSFP28 MPO PSM4 500m SM Transceiver	JH420A
HPE X240 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable	JL271A
HPE X240 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable	JL272A
HPE X240 100G QSFP28 to QSFP28 5m Direct Attach Copper Cable	JL273A

Note 4 If the Switch Chassis is to be Box Level Factory Integrated (CTO), Then the #0D1 is required on the Switch Chassis and integrated to the JG505A - HP 59xx CTO Switch Solution. (Min 1/Max 1 Router per SSP)

Note 5 If this switch is configured for an NFV solution(Q0F04A - HPE NFV System V1.3 3Par Storage Block), default no less than the quantities specified below for the following components:

Qty 2 - JG553A (min 2)

Qty 2 - JC680A (min 2)

Qty 4 - JD092B (min 4)

Qty 1 - JG326A (min 1)

Note 6 The following SFP Transceivers install into this Switch: (Use #0D1 or #B01 if switch is CTO) - if applicable

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

Note 7 The following 40G Transceivers install into this Module's QSFP+ Ports: (Use #0D1 or #B01 if switch is CTO) - if applicable

HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE X140 40G QSFP+ LC LR4L 2km SM Transceiver	JL286A

Configuration

HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A

Note 8 The following 100G Transceivers install into this Switch's QSFP28 Ports: (Use #0D1 or #B01 if switch is CTO) - if applicable

JH419A - HPE X150 100G QSFP28 SWDM4 100m MM XCVR

Remarks:

Clc UNB - If an option is ordered with #0D1/#B01, then the switch must have #0D1 option.

Rack Level Integration CTO Models

CTO Switch Chassis

HPE FlexFabric 5940 32QSFP+ Switch

- 32 QSFP+ ports (min=0 \ max=32)
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U - Height

JH396A

See Configuration
NOTE: 2, 4

HPE FlexFabric 5940 2-slot Switch

- 2 QSFP+ ports (min=0 \ max=2)
- 2 port expansion module slots
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U - Height

JH397A

See Configuration
NOTE: 2

HPE FlexFabric 5940 4-slot Switch

- 4 port expansion module slots
- Must select min 2 Power Supply
- Must select min 2 Fan Trays
- 2U - Height

JH398A

See Configuration
NOTE: 4

HPE FlexFabric 5940 2-slot 2QSFP+ Front-to-Back AC Bundle

- 2 QSFP+ ports (min=0 \ max=2)
- 2 port expansion module slots
- Includes 2 Power Supply (JC680A)
- Includes 2 Fan Trays (JG552A)
- 1U - Height

JQ041A

See Configuration
NOTE: 2

PDU Cable NA/MEX/TW/JP

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

JQ041A#B2B

PDU Cable ROW

JQ041A#B2C

Configuration

<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Power Supply to Wall Power Cord	JQ041A#B2E
<ul style="list-style-type: none"> • NEMA L6-20P Cord (NA/MEX/JP/TW) 	
No Power Cord	JQ041A#AC3
<ul style="list-style-type: none"> • No Localized Power Cord Selected 	
HPE FlexFabric 5940 2-slot 2QSFP+ Back-to-Front AC Bundle	JQ042A
<ul style="list-style-type: none"> • 2 QSFP+ ports (min=0 \ max=2) • 2 port expansion module slots • Includes 2 Power Supply (JC680A) • Includes 2 Fan Trays (JG553A) • 1U - Height 	See Configuration NOTE: 2
PDU Cable NA/MEX/TW/JP	JQ042A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JQ042A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Power Supply to Wall Power Cord	JQ042A#B2E
<ul style="list-style-type: none"> • NEMA L6-20P Cord (NA/MEX/JP/TW) 	
No Power Cord	JQ042A#AC3
<ul style="list-style-type: none"> • No Localized Power Cord Selected 	
HPE FlexFabric 5940 4-slot Front-to-Back AC Bundle	JQ043A
<ul style="list-style-type: none"> • 4 port expansion module slots • Includes 4 Power Supply (JC680A) • Includes 2 Fan Trays (JH186A) • 2U - Height 	
PDU Cable NA/MEX/TW/JP	JQ043A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JQ043A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Power Supply to Wall Power Cord	JQ043A#B2E
<ul style="list-style-type: none"> • NEMA L6-20P Cord (NA/MEX/JP/TW) 	
No Power Cord	JQ043A#AC3
<ul style="list-style-type: none"> • No Localized Power Cord Selected 	
HPE FlexFabric 5940 4-slot Back-to-Front AC Bundle	JQ044A
<ul style="list-style-type: none"> • 4 port expansion module slots • Includes 4 Power Supply (JC680A) • Includes 2 Fan Trays (JH185A) 	

Configuration

<ul style="list-style-type: none"> • 2U - Height 	
PDU Cable NA/MEX/TW/JP	JQ044A#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JQ044A#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Power Supply to Wall Power Cord	JQ044A#B2E
<ul style="list-style-type: none"> • NEMA L6-20P Cord (NA/MEX/JP/TW) 	
No Power Cord	JQ044A#AC3
<ul style="list-style-type: none"> • No Localized Power Cord Selected 	
HPE FlexFabric 5940 48SFP+ 6QSFP+ Switch	JH395A
<ul style="list-style-type: none"> • 48 SFP+ ports (min=0 \ max=48) • 6 QSFP+ ports (min=0 \ max=6) • Must select min 1 Power Supply • Must select min 2 Fan Trays • 1U - Height 	See Configuration NOTE: 1, 2, 4, 5, 6
HPE FlexFabric 5940 48XGT 6QSFP+ Switch	JH394A
<ul style="list-style-type: none"> • 48 1/10BaseT GbE ports (min=0 \ max=48) • 6 QSFP+ ports (min=0 \ max=6) • Must select min 1 Power Supply • Must select min 2 Fan Trays • 1U - Height 	See Configuration NOTE: 2, 4, 6
HPE FlexFabric 5940 48SFP+ 6QSFP28 Switch	JH390A
<ul style="list-style-type: none"> • 48 SFP+ ports (min=0 \ max=48) • 6 QSFP28 ports (min=0 \ max=6) • Must select min 1 Power Supply • Must select min 2 Fan Trays • 1U - Height 	See Configuration NOTE: 1, 3, 4, 6, 7
HPE FlexFabric 5940 48XGT 6QSFP28 Switch	JH391A
<ul style="list-style-type: none"> • 48 1/10BaseT GbE ports (min=0 \ max=48) • 6 QSFP28 ports (min=0 \ max=6) • Must select min 1 Power Supply • Must select min 2 Fan Trays • 1U - Height 	See Configuration NOTE: 3, 4, 6, 7

Configuration Rules

Note 1 The following SFP+ Transceivers install into this Switch: (Use #0D1 or #B01 if switch is CTO) - if applicable

HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X130 10G SFP+ LC SR Data Center Transceiver	JL437A
HPE X130 10G SFP+ LC LR Data Center Transceiver	JL439A
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C

Configuration

HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A

Note 2 The following QSFP+ Transceivers install into this switch:

HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE X140 40G QSFP+ LC LR4L 2km SM Transceiver	JL286A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A

Note 3 The following QSFP28 Transceivers install into this switch:

HPE X150 100G QSFP28 MPO SR4 100m MM Transceiver	JL274A
HPE X150 100G QSFP28 LC LR4 10km SM Transceiver	JL275A
HPE X2A0 100G QSFP28 to QSFP28 7m Active Optical Cable	JL276A
HPE X2A0 100G QSFP28 to QSFP28 10m Active Optical Cable	JL277A
HPE X2A0 100G QSFP28 to QSFP28 20m Active Optical Cable	JL278A
HPE X150 100G QSFP28 MPO PSM4 500m SM Transceiver	JH420A
HPE X240 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable	JL271A
HPE X240 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable	JL272A
HPE X240 100G QSFP28 to QSFP28 5m Direct Attach Copper Cable	JL273A
HPE X150 100G QSFP28 CWDM4 2km SM Transceiver	JH673A

Note 4 If HPE CTO Switch Chassis is selected for Rack Level Integration, Then the Switch needs to integrate (with #OD1) to the Rack.

Note 5 If this switch is configured for an NFV solution(Q0F04A - HPE NFV System V1.3 3Par Storage Block), default no less than the quantities specified below for the following components:

Qty 2 - JG553A (min 2)

Qty 2 - JC680A (min 2)

Qty 4 - JD092B (min 4)

Qty 1 - JG326A (min 1)

Note 6 The following SFP Transceivers install into this Switch: (Use #OD1 or #B01 if switch is CTO) - if applicable

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

Configuration

HPE X125 1G SFP LC LH70 Transceiver JD063B

Note 7 The following 40G Transceivers install into this Module's QSFP+ Ports: (Use #0D1 or #B01 if switch is CTO) - if applicable

HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE X140 40G QSFP+ LC LR4L 2km SM Transceiver	JL286A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A

Note 8 The following 100G Transceivers install into this Switch's QSFP28 Ports: (Use #0D1 or #B01 if switch is CTO) - if applicable

JH419A - HPE X150 100G QSFP28 SWDM4 100m MM XCVR

Remarks

Drop down under power supply should offer the following options and results:

Switch/Router to PDU Power Cord - #B2B in NA, 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)

No Power Cord - #AC3 Option

Clc UNB - If an option is ordered with #0D1/#B01, then the switch must have #0D1 option.

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

Switch Options

(JH397A, JQ041A, JQ042A) System (std 0 // max 2) User Selection (min 0 // max 2)

(JH398A, JQ043A, JQ044A) System (std 0 // max 4) User Selection (min 0 // max 4)

HPE FlexFabric 5930 24-port Converged-port and 2-port QSFP+ 2 Module Bundle

JH382A

- Module Bundle (Occupies 2 slots):
- 2 - JH184A 5930 24p Conv Port and 2p QSFP+ Mod
- 48 Converged SFP+/FC ports (min=0 \ max=48)
- 4 QSFP+ ports (min=0 \ max=4)

See Configuration

NOTE: 1, 2, 12

HPE FlexFabric 5930 8-port QSFP+ 2 Module Bundle

JH383A

- Module Bundle: (Bundle Occupies 2 slots)
- 2 - JH183A HP 5930 8-port QSFP+ Module
- Each Module Bundle: 16 QSFP+ ports (min=0 \ max=16)

See Configuration

NOTE: 2, 13

HPE FlexFabric 5950 8-port QSFP28 MACsec Module

JH957A

Configuration

<ul style="list-style-type: none"> 8 40G QSFP+ ports (min=0 \ max=8) 	See Configuration NOTE: 6
HPE 5940 2-port QSFP+ and 2-port QSFP28 Module	JH409A
<ul style="list-style-type: none"> 2 QSFP+ ports (min=0 \ max=2) 2 QSFP28 ports (min=0 \ max=2) 	See Configuration NOTE: 3, 6, 8, 9, 10
HPE 5930 24-port SFP+ and 2-port QSFP+ Module	JH180A
<ul style="list-style-type: none"> 24 SFP+ ports (min=0 \ max=24) 2 QSFP+ ports (min=0 \ max=2) 	See Configuration NOTE: 1, 3, 6, 7, 8
HPE 5930 24-port SFP+ and 2-port QSFP+ with MACsec Module	JH181A
<ul style="list-style-type: none"> 24 SFP+ ports (min=0 \ max=24) 2 QSFP+ ports (min=0 \ max=2) 	See Configuration NOTE: 3, 6, 7, 8, 11
HPE 5930 24-port 10GBASE-T and 2-port QSFP+ with MACsec Module	JH182A
<ul style="list-style-type: none"> 24 1/10GBase-T ports 2 QSFP+ ports (min=0 \ max=2) 	See Configuration NOTE: 3, 6, 8
HPE 5930 8-port QSFP+ Module	JH183A
<ul style="list-style-type: none"> 8 QSFP+ ports (min=0 \ max=8) 	See Configuration NOTE: 2, 3, 8
HPE 5930 24-port Converged Port and 2-port QSFP+ Module	JH184A
<ul style="list-style-type: none"> 24 Converged SFP+/FC ports (min=0 \ max=24) 2 QSFP+ ports (min=0 \ max=2) 	See Configuration NOTE: 1, 2, 3, 8, 12, 13

Configuration Rules

Note 1 The following SFP+ Transceivers install into this Switch: (Use #0D1 or #B01 if switch is CTO) - if applicable

HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X130 10G SFP+ LC SR Data Center Transceiver	JL437A
HPE X130 10G SFP+ LC LR Data Center Transceiver	JL439A
HPE X130 10G SFP+ LC LH80 tunable Transceiver	JL250A
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A

Note 2 The following 40G Transceivers install into this Module's QSFP+ Ports: (Use #0D1 or #B01 if switch is CTO) - if applicable

HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A

Configuration

HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE X140 40G QSFP+ LC LR4L 2km SM Transceiver	JL286A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A

Note 3 This Module can install into the following Switches: (Use #0D1 or #B01 if switch is CTO) - if applicable

HPE FlexFabric 5940 2-slot Switch	JH397A
HPE FlexFabric 5940 4-slot Switch	JH398A

Note 4 This Module Bundle takes up 2 slots, and is only offered on:

HPE FlexFabric 5940 2-slot 2QSFP+ Front-to-Back AC Bundle	JQ041A
HPE FlexFabric 5940 2-slot 2QSFP+ Back-to-Front AC Bundle	JQ042A
HPE FlexFabric 5940 4-slot Front-to-Back AC Bundle	JQ043A
HPE FlexFabric 5940 4-slot Back-to-Front AC Bundle	JQ044A

Note 6 The following 40G Transceivers install into this Module's QSFP+ Ports: (Use #0D1 or #B01 if switch is CTO) - if applicable

HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE X140 40G QSFP+ LC LR4L 2km SM Transceiver	JL286A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A

Note 7 The following 10G Transceivers install into this Module's SFP+ Ports: (Use #0D1 or #B01 if switch is CTO) - if applicable

HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A

Note 8 The following 40G Transceivers install into this Module's QSFP+ Ports: (Use #0D1 or #B01 if switch is CTO) - if applicable

HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A

Note 9 The following QSFP28 Transceivers install into this Module's QSFP28 Ports: (Use #0D1 or #B01 if switch is CTO) - if applicable

HPE X150 100G QSFP28 MPO SR4 100m MM Transceiver	JL274A
HPE X150 100G QSFP28 LC LR4 10km SM Transceiver	JL275A
HPE X2A0 100G QSFP28 to QSFP28 7m Active Optical Cable	JL276A
HPE X2A0 100G QSFP28 to QSFP28 10m Active Optical Cable	JL277A
HPE X150 100G QSFP28 LC SWDM4 100m MM Transceiver	JH419A

Configuration

HPE X2A0 100G QSFP28 to QSFP28 20m Active Optical Cable	JL278A
HPE X150 100G QSFP28 MPO PSM4 500m SM Transceiver	JH420A
HPE X150 100G QSFP28 CWDM4 2km SM Transceiver	JH673A
HPE X240 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable	JL271A
HPE X240 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable	JL272A
HPE X240 100G QSFP28 to QSFP28 5m Direct Attach Copper Cable	JL273A

Note 10 The following 40G Cables install into this Module's QSFP+ Ports ONLY: (Use #0D1 or #B01 if switch is CTO) - if applicable

HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A

Note 11 The following SFP+ Transceivers install into this Module's SFP+ Ports: (Use #0D1 or #B01 if switch is CTO) - if applicable

HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X130 10G SFP+ LC SR Data Center Transceiver	JL437A
HPE X130 10G SFP+ LC LR Data Center Transceiver	JL439A
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A

Note 12 The following FC Transceivers install into this Module's SFP+/FC Ports: (Use #0D1 or BTO if switch is CTO) - if applicable

HPE StoreFabric 16Gb FC/10GbE 100m SR SFP+ Transceiver	H6Z42A
HPE 8Gb Short Wave Fibre Channel SFP+ 1 Pack	AJ718A
HPE 8Gb Long Wave 10km Fibre Channel SFP+ 1 Pack Transceiver	AW584A

Note 13 OCA Blue **NOTE:**

Fibre channel support is 8Gb/4Gb/2Gb on any of the 24 converged ports of the JH184A Module. Note that a maximum of 8Gb FC is supported regardless of the FC optics used.

Transceivers

SFP Transceivers

HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
NOTE: Only supported on PHY switch ports	
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
NOTE: Only supported on PHY switch ports	
HPE X125 1G SFP LC LH70 Transceiver	JD063B

Configuration

Remarks

:

OCA Blue Note - The SFP Transceivers(JD061A, JD062A) are only supported in ports 1-8 for the JH390A Switch and ports 1-16 for the JH395A Switch.

SFP+ Transceivers

HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X130 10G SFP+ LC SR Data Center Transceiver	JL437A
HPE X130 10G SFP+ LC LR Data Center Transceiver	JL439A
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A

FC SFP+ Transceivers

HPE StoreFabric 16Gb FC/10GbE 100m SR SFP+ Transceiver	H6Z42A
HPE 8Gb Short Wave Fibre Channel SFP+ 1 Pack	AJ718A
HPE 8Gb Long Wave 10km Fibre Channel SFP+ 1 Pack Transceiver	AW584A

QSFP+ Transceivers

HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X140 40G QSFP+ LC LR4L 2km SM Transceiver	JL286A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A

Watson Blue Note - The QSFP+ Splitter Cables(JG329A, JG330A, JG331A, JH700A) are only supported in ports 5-28 for the JG396A Switch. Valid on all 40/100GbE ports for other 5940 Switches.

The QSFP+ Splitter Cables(JG329A, JG330A, JG331A, JH700A) are only supported on the first 6 ports of the JH183A Module when used in a 4 slot switch(JH398A).

These modules(JH180A, JH181A, JH183A, JH184A, JH182A) do not support the QSFP+ Splitter Cables(JG329A, JG330A, JG331A, JH700A) when used in a 4 slot switch(JH398A).

QSFP28 Transceivers

HPE X150 100G QSFP28 MPO SR4 100m MM Transceiver	JL274A
HPE X150 100G QSFP28 LC LR4 10km SM Transceiver	JL275A

Configuration

HPE X2A0 100G QSFP28 to QSFP28 7m Active Optical Cable	JL276A
HPE X2A0 100G QSFP28 to QSFP28 10m Active Optical Cable	JL277A
HPE X2A0 100G QSFP28 to QSFP28 20m Active Optical Cable	JL278A
HPE X150 100G QSFP28 MPO PSM4 500m SM Transceiver	JH420A
HPE X150 100G QSFP28 CWDM4 2km SM Transceiver	JH673A
HPE X150 100G QSFP28 LC SWDM4 100m MM Transceiver	JH419A
HPE X240 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable	JL271A
HPE X240 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable	JL272A
HPE X240 100G QSFP28 to QSFP28 5m Direct Attach Copper Cable	JL273A

Cables

Multi-Mode Cables

HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A

MPO Cables

HPE Multi Fiber Push On to 4 x Lucent Connector 5m Cable	K2Q46A
HPE Multi Fiber Push On to 4 x Lucent Connector 15m Cable	K2Q47A
HPE Premier Flex MPO/MPO Multi-mode OM4 12 fiber 10m Cable	QK729A
HPE Premier Flex MPO/MPO Multi-mode OM4 8 fiber 50m Cable	QK731A
HPE Premier Flex MPO/MPO OM4 100m (12ft) Cable	H6Z30A

Internal Power Supplies

(JH390A, JH391A, JH394A, JH395A, JH396A, JH397A) System (std 0 // max 2) User Selection (min 1 // max 2)

(JH398A) System (std 0 // max 4) User Selection (min 2 // max 4)

HPE A58x0AF Back (Power Side) to Front (Port Side) Airflow 300W AC Power Supply	JG900A
<ul style="list-style-type: none"> includes 1 x c13, 300w 	See Configuration NOTE: 1, 2, 3
PDU Cable NA/MEX/TW/JP	JG900A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MX/TW/JP) 	
HPE A58x0AF Back (Power Side) to Front (Port Side) Airflow 300W DC Power Supply	JG901A
<ul style="list-style-type: none"> includes 1 x c13, 300w 	See Configuration NOTE: 1, 3

Configuration

HPE 58x0AF 650W AC Power Supply	JC680A
<ul style="list-style-type: none"> includes 1 x c13, 300w 	See Configuration NOTE: 1, 2
PDU Cable NA/MEX/TW/JP	JC680A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MX/TW/JP) 	
HPE 58x0AF 650W AC Power Supply	JC680A
<ul style="list-style-type: none"> includes 1 x c13, 300w 	See Configuration NOTE: 1, 2
PDU Cable NA/MEX/TW/JP	JC680A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MX/TW/JP) 	
PDU Cable ROW	JC680A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JC680A#B2E
<ul style="list-style-type: none"> HPE 2.3M C13 to NEMA L6-20P Power Cord(J9936A) 	
No Power Cord Selected	JC680A#AC3
<ul style="list-style-type: none"> No Localized Power Cord Selected 	
HPE FlexFabric Switch 650W 48V Hot Plug NEBS-compliant DC Power Supply	JH336A
<ul style="list-style-type: none"> includes 1 x c13, 650w 	See Configuration NOTE: 1

Configuration Rules

Note 1 If 2 power supplies are selected they must be the same SKU number.

Note 2 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord) . (See Localization Menu)
REMARK: When Switches/Routers are Factory Racked, Then #B2B, or #B2C should be the Defaulted Power Cable option on the Switches/Routers.

Note 3 This power supply is only compatible with the following Switches:
JH390A
JH395A

Remarks: Drop down under power supply should offer the following options and results:

Switch/Router to PDU Power Cord - #B2B in NA, 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)

No Power Cord - #AC3 Option

Fan Trays

(JH390A, JH391A, JH394A, JH395A, JH396A, JH397A) System (std 0 // max 2) User Selection (min 2 // max 2)

(JH398A) System (std 0 // max 2) User Selection (min 2 // max 2)

HPE 58x0AF Back (Power Side) to Front (Port Side) Airflow Fan Tray

JC682A

Configuration

	See Configuration NOTE: 1, 6
HPE 58x0AF Front (Port Side) to Back (Power Side) Airflow Fan Tray	JC683A See Configuration NOTE: 1, 6
HPE X711 Front (Port Side) to Back (Power Side) Airflow High Volume Fan Tray	JG552A See Configuration NOTE: 1, 2
HPE X712 Back (Power Side) to Front (Port Side) Airflow High Volume Fan Tray	JG553A See Configuration NOTE: 1, 2
HPE 5930 4-slot Back (Power Side) to Front (Port Side) Airflow Fan Tray	JH185A See Configuration NOTE: 1, 3
HPE 5930 4-slot Front (Port Side) to Back (Power Side) Airflow Fan Tray	JH186A See Configuration NOTE: 1, 3

Configuration Rules

- Note 1** Fan Trays cannot be mixed in the same switch enclosure
- Note 2** This fan tray is only supported on JH390A, JH391A, JH394A, JH395A, JH396A, JH397A.
- Note 3** This fan tray is only supported on JH398A.
- Note 6** This power supply is only compatible with the following Switches:
JH390A
JH395A

Remarks: OCA Blue **NOTE:**

If there is any empty space below the switch in a rack when using Back to Front Fan Trays, JG553A, JH185A and JC682A, the rack will receive an Air Plenum kit that takes up 1U of additional space in the rack. The Air Plenum kit is not required on fully configured racks. This only applies for CTO Rack Level Integration. The Air Plenum Kit is a non-saleable SKU, and is brought in automatically for CTO Factory Rack Level Integration.

Technical Specifications

HPE FlexFabric 5940 48SFP+ 6QSFP+ Switch (JH395A)

I/O ports and slots	48 fixed 1000/10000 SFP+ ports 6 QSFP+ 40GbE ports	
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 USB 2.0 1 Mini USB 2.0	
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)	
Fan tray	2 fan tray slots The customer must order fan trays, as fan trays are not included with the switch. This system requires two same-direction airflow fan trays to function properly. The system should not be operated with only one fan tray for more than 24 hours. The system should not be operated without a fan tray for more than two minutes. The system should not be operated outside of the temperature range of 32°F (0°C) to 113°F (45°C). Failure to comply with these operating requirements may void the product warranty.	
Physical characteristics	Dimensions	17.32(w) x 18.11(d) x 1.72(h) in (44 x 46 x 4.36 cm)
	Weight	22.05 lb (10 kg) shipping weight
Memory and processor	1 GB flash; Packet buffer size: 12.2 MB, 4 GB SDRAM	
Performance	10 Gbps Latency	< 1 μ s (64-byte packets)
	Throughput	up to 1071 Mpps
	Routing/Switching capacity	1440 Gbps
	Routing table size	120000 entries (IPv4), 60000 entries (IPv6)
	MAC address table size	288000 entries
	Environment	Operating temperature
	Operating relative humidity	10% to 90%, noncondensing
	Acoustic	Low-speed fan: 65.7 dB, High-speed fan: 70.6 dB
Electrical characteristics	Maximum heat dissipation	887 BTU/hr (935.79 kJ/hr)
	Voltage	100 - 240 VAC, rated -40 to -60 VDC, rated (depending on power supply chosen)
	Maximum power rating	213 W
	Frequency	50/60 Hz
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2 IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance	
Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)	

Technical Specifications

Immunity	Generic	ETSI EN 300 386 V1.3.3
	EN	EN 55024:1998+ A1:2001 + A2:2003
	ESD	EN 61000-4-2; IEC 61000-4-2
	Radiated	EN 61000-4-3; IEC 61000-4-3
	EFT/Burst	EN 61000-4-4; IEC 61000-4-4
	Surge	EN 61000-4-5; IEC 61000-4-5
	Conducted	EN 61000-4-6; IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8; EN 61000-4-8
	Voltage dips and interruptions	EN 61000-4-11; IEC 61000-4-11
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	IMC - Intelligent Management Center; Command-line interface; Out-of-band management; SNMP manager; Telnet; FTP	
Notes	The customer must order a power supply, as the device does not come with one. At least one JC680A or JC681A is required.	
Services	Refer to the Hewlett Packard Enterprise website at: http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

HPE FlexFabric 5940 32QSFP+ Switch (JH396A)

I/O ports and slots	32 QSFP+ 40GbE ports	
Additional ports and slots	1 RJ-45 serial console port	
	1 RJ-45 out-of-band management port	
	1 USB 2.0	
	1 Mini USB 2.0	
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)	
Fan tray	2 fan tray slots	
	The customer must order fan trays, as fan trays are not included with the switch. This system requires two same-direction airflow fan trays to function properly. The system should not be operated with only one fan tray for more than 24 hours. The system should not be operated without a fan tray for more than two minutes. The system should not be operated outside of the temperature range of 32°F (0°C) to 113°F (45°C). Failure to comply with these operating requirements may void the product warranty.	
Physical characteristics	Dimensions	17.32(w) x 25.98(d) x 1.74(h) in (44.00 x 66.0 x 4.42 cm)
	Weight	35.27 lb (16 kg) shipping weight
	Full configuration weight	28.66 lb (13 kg)
Memory and processor	1 GB flash; Packet buffer size: 12.2 MB, 4 GB SDRAM	
Performance	10 Gbps Latency	< 1 μs (64-byte packets)
	Throughput	up to 1904Mpps
	Routing/Switching capacity	2560 Gbps
	Routing table size	120000 entries (IPv4), 60000 entries (IPv6)
	MAC address table size	288000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)

Technical Specifications

	Operating relative humidity	10% to 90%, noncondensing
	Acoustic	Low-speed fan: 59.8 dB, High-speed fan: 74.4 dB
Electrical characteristics	Maximum heat dissipation	597/1361 BTU/hr (629.83/1435.86 kJ/hr)
	Voltage	90 - 264 VAC, rated -40 to -75 VDC, rated (depending on power supply chosen)
	Maximum power rating	409 W
	Frequency	50/60 Hz
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2 IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance	
Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)	
Immunity	Generic	ETSI EN 300 386 V1.3.3
	EN	EN 55024:1998+ A1:2001 + A2:2003
	ESD	EN 61000-4-2; IEC 61000-4-2
	Radiated	EN 61000-4-3; IEC 61000-4-3
	EFT/Burst	EN 61000-4-4; IEC 61000-4-4
	Surge	EN 61000-4-5; IEC 61000-4-5
	Conducted	EN 61000-4-6; IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8; EN 61000-4-8
	Voltage dips and interruptions	EN 61000-4-11; IEC 61000-4-11
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	IMC - Intelligent Management Center; Command-line interface; Out-of-band management; SNMP manager; Telnet; FTP	
Notes	The customer must order a power supply, as the device does not come with one. At least one JC680A or JC681A is required.	
Services	Refer to the Hewlett Packard Enterprise website at: http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

HPE FlexFabric 5940 48XGT 6QSFP+ Switch (JH394A)

I/O ports and slots	48 1/10GBASE-T ports 6 QSFP+ 40GbE ports
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 USB 2.0

Technical Specifications

	1 Mini USB 2.0
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)
Fan tray	2 fan tray slots The customer must order fan trays, as fan trays are not included with the switch. This system requires two same-direction airflow fan trays to function properly. The system should not be operated with only one fan tray for more than 24 hours. The system should not be operated without a fan tray for more than two minutes. The system should not be operated outside of the temperature range of 32°F (0°C) to 113°F (45°C). Failure to comply with these operating requirements may void the product warranty.
Physical characteristics	Dimensions 17.32(w) x 25.98(d) x 1.72(h) in (44 x 66 x 4.36 cm) Weight 28.66 lb (13 kg) shipping weight
Memory and processor	1 GB flash; Packet buffer size: 12.2 MB, 4 GB SDRAM
Performance	10 Gbps Latency < 1 μs (64-byte packets) Throughput up to 1071 Mpps Routing/Switching capacity 1440 Gbps Routing table size 120000 entries (IPv4), 60000 entries (IPv6) MAC address table size 288000 entries
Environment	Operating temperature 32°F to 113°F (0°C to 45°C) Operating relative humidity 10% to 90%, noncondensing Acoustic Low-speed fan: 65.7 dB, High-speed fan: 70.6 dB
Electrical characteristics	Maximum heat dissipation 887 BTU/hr (935.79 kJ/hr) Voltage 100 - 240 VAC, rated -40 to -60 VDC, rated (depending on power supply chosen) Maximum power rating 370 W Frequency 50/60 Hz Notes Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2 IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance
Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
Immunity	Generic ETSI EN 300 386 V1.3.3 EN EN 55024:1998+ A1:2001 + A2:2003 ESD EN 61000-4-2; IEC 61000-4-2 Radiated EN 61000-4-3; IEC 61000-4-3 EFT/Burst EN 61000-4-4; IEC 61000-4-4 Surge EN 61000-4-5; IEC 61000-4-5 Conducted EN 61000-4-6; IEC 61000-4-6

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	Power frequency magnetic field	IEC 61000-4-8; EN 61000-4-8
	Voltage dips and interruptions	EN 61000-4-11; IEC 61000-4-11
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	IMC - Intelligent Management Center; Command-line interface; Out-of-band management; SNMP manager; Telnet; FTP	
Notes	The customer must order a power supply, as the device does not come with one. At least one JC680A or JC681A is required.	
Services	Refer to the Hewlett Packard Enterprise website at: http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

HPE FlexFabric 5940 48SFP+ 6QSFP28 Switch (JH390A)

I/O ports and slots	48 fixed 1000/10000 SFP+ ports 6 QSFP28 100GbE ports	
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 SFP GbE port 1 USB 2.0 1 Mini USB 2.0	
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)	
Fan tray	2 fan tray slots The customer must order fan trays, as fan trays are not included with the switch. This system requires two same-direction airflow fan trays to function properly. The system should not be operated with only one fan tray for more than 24 hours. The system should not be operated without a fan tray for more than two minutes. The system should not be operated outside of the temperature range of 32°F (0°C) to 113°F (45°C). Failure to comply with these operating requirements may void the product warranty.	
Physical characteristics	Dimensions	17.32(w) x 18.11(d) x 1.72(h) in (44 x 46 x 4.36 cm)
	Weight	24.25 lb (11 kg) shipping weight
Memory and processor	1 GB flash; Packet buffer size: 12.2 MB, 4 GB SDRAM	
Performance	10 Gbps Latency	< 1 μs (64-byte packets)
	Throughput	up to 1607 Mpps
	Routing/Switching capacity	2160 Gbps
	Routing table size	120000 entries (IPv4), 60000 entries (IPv6)
	MAC address table size	288000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	10% to 90%, noncondensing
	Acoustic	Low-speed fan: 65.7 dB, High-speed fan: 70.6 dB
Electrical characteristics	Maximum heat dissipation	887 BTU/hr (935.79 kJ/hr)
	Voltage	100 - 240 VAC, rated

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-40 to -60 VDC, rated
(depending on power supply chosen)

Maximum power rating 196 W

Frequency 50/60 Hz

Notes Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.

Safety UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)

Immunity

Generic ETSI EN 300 386 V1.3.3

EN EN 55024:1998+ A1:2001 + A2:2003

ESD EN 61000-4-2; IEC 61000-4-2

Radiated EN 61000-4-3; IEC 61000-4-3

EFT/Burst EN 61000-4-4; IEC 61000-4-4

Surge EN 61000-4-5; IEC 61000-4-5

Conducted EN 61000-4-6; IEC 61000-4-6

Power frequency magnetic field IEC 61000-4-8; EN 61000-4-8

Voltage dips and interruptions EN 61000-4-11; IEC 61000-4-11

Harmonics EN 61000-3-2, IEC 61000-3-2

Flicker EN 61000-3-3, IEC 61000-3-3

Management IMC - Intelligent Management Center; Command-line interface; Out-of-band management; SNMP manager; Telnet; FTP

Notes The customer must order a power supply, as the device does not come with one. At least one JC680A or JC681A is required.

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

HPE FlexFabric 5940 48XGT 6QSFP28 Switch (JH391A)

I/O ports and slots 48 1/10GBASE-T ports
6 QSFP28 100GbE ports

Additional ports and slots 1 RJ-45 serial console port
1 RJ-45 out-of-band management port
1 SFP GbE port
1 USB 2.0
1 Mini USB 2.0

Power supplies 2 power supply slots
1 minimum power supply required (ordered separately)

Fan tray 2 fan tray slots
The customer must order fan trays, as fan trays are not included with the switch. This system requires two same-direction airflow fan trays to function properly. The system should not be operated with

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only one fan tray for more than 24 hours. The system should not be operated without a fan tray for more than two minutes. The system should not be operated outside of the temperature range of 32°F (0°C) to 113°F (45°C). Failure to comply with these operating requirements may void the product warranty.

Physical characteristics	Dimensions	17.32(w) x 25.98(d) x 1.72(h) in (44 x 66 x 4.36 cm)
	Weight	28.66 lb (13 kg) shipping weight
Memory and processor	1 GB flash; Packet buffer size: 12.2 MB, 4 GB SDRAM	
Performance	10 Gbps Latency	< 1 μ s (64-byte packets)
	Throughput	up to 1607 Mpps
	Routing/Switching capacity	2160 Gbps
	Routing table size	120000 entries (IPv4), 60000 entries (IPv6)
	MAC address table size	288000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	10% to 90%, noncondensing
	Acoustic	Low-speed fan: 65.7 dB, High-speed fan: 70.6 dB
Electrical characteristics	Maximum heat dissipation	887 BTU/hr (935.79 kJ/hr)
	Voltage	100 - 240 VAC, rated -40 to -60 VDC, rated (depending on power supply chosen)
	Maximum power rating	320 W
	Frequency	50/60 Hz
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
	Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance
Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)	
Immunity	Generic	ETSI EN 300 386 V1.3.3
	EN	EN 55024:1998+ A1:2001 + A2:2003
	ESD	EN 61000-4-2; IEC 61000-4-2
	Radiated	EN 61000-4-3; IEC 61000-4-3
	EFT/Burst	EN 61000-4-4; IEC 61000-4-4
	Surge	EN 61000-4-5; IEC 61000-4-5
	Conducted	EN 61000-4-6; IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8; EN 61000-4-8
	Voltage dips and interruptions	EN 61000-4-11; IEC 61000-4-11
	Harmonics	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	

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Management	IMC - Intelligent Management Center; Command-line interface; Out-of-band management; SNMP manager; Telnet; FTP
Notes	The customer must order a power supply, as the device does not come with one. At least one JC680A or JC681A is required.
Services	Refer to the Hewlett Packard Enterprise website at: http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

HPE FlexFabric 5940 2-slot Switch (JH397A)

I/O ports and slots	2 module slots 2 QSFP+ 40GbE ports Supports a maximum of 18 40GbE ports or 48 1/10GBASE-T ports or 48 SFP+ ports or 48 Converged ports, or a combination
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 USB 2.0 1 Mini USB 2.0
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)
Fan tray	2 fan tray slots The customer must order fan trays, as fan trays are not included with the switch. This system requires two same-direction airflow fan trays to function properly. The system should not be operated with only one fan tray for more than 24 hours. The system should not be operated without a fan tray for more than two minutes. The system should not be operated outside of the temperature range of 32°F (0°C) to 113°F (45°C). Failure to comply with these operating requirements may void the product warranty.
Physical characteristics	Dimensions 17.32(w) x 25.98(d) x 1.74(h) in (44.00 x 66.0 x 4.42 cm) (1U height) Weight 39.68 lb (18 kg) shipping weight Full configuration weight 35.27 lb (16 kg)
Memory and processor	1 GB flash; Packet buffer size: 12.2 MB, 4 GB SDRAM
Performance	10 Gbps Latency < 1 μs (64-byte packets) Throughput up to 1071 Mpps Routing/Switching capacity 1440 Gbps Routing table size 128000 entries (IPv4), 64000 entries (IPv6) MAC address table size 288000 entries
Reliability	MTBF (years) 47.2 MTTR (hours) 1
Environment	Operating temperature 32°F to 113°F (0°C to 45°C) Operating relative humidity 10% to 90%, noncondensing Acoustic Low-speed fan: 59.8 dB, High-speed fan: 74.4 dB
Electrical characteristics	Voltage 90 - 264 VAC, rated -40 to -75 VDC, rated (depending on power supply chosen) Maximum power rating 508 W Idle power 105 W Frequency 50/60 Hz

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	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	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance	
Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)	
Immunity	Generic	ETSI EN 300 386 V1.3.3
	EN	EN 55024:1998+ A1:2001 + A2:2003
	ESD	EN 61000-4-2; IEC 61000-4-2
	Radiated	EN 61000-4-3; IEC 61000-4-3
	EFT/Burst	EN 61000-4-4; IEC 61000-4-4
	Surge	EN 61000-4-5; IEC 61000-4-5
	Conducted	EN 61000-4-6; IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8; EN 61000-4-8
	Voltage dips and interruptions	EN 61000-4-11; IEC 61000-4-11
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	IMC - Intelligent Management Center; Command-line interface; Out-of-band management; SNMP manager; Telnet; FTP	
Notes	The customer must order a power supply, as the device does not come with one. At least one JC680A or JC681A is required.	
Services	Refer to the Hewlett Packard Enterprise website at: http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

HPE FlexFabric 5940 4-slot Switch (JH398A)

I/O ports and slots	4 module slots Supports a maximum of 32 40GbE ports or 96 1/10GBASE-T ports or 96 SFP+ ports or 96 Converged ports, or a combination
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 USB 2.0 1 Mini USB 2.0
Power supplies	4 power supply slots 2 minimum power supply required (ordered separately)
Fan tray	2 fan tray slots The customer must order fan trays, as fan trays are not included with the switch. This system requires two same-direction airflow fan trays to function properly. The system should not be operated with only one fan tray for more than 24 hours. The system should not be operated without a fan tray for more than two minutes. The system should not be operated outside of the temperature range of

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32°F (0°C) to 113°F (45°C). Failure to comply with these operating requirements may void the product warranty.

Physical characteristics	Dimensions	17.32(w) x 25.98(d) x 3.47(h) in (44.00 x 66.0 x 8.81 cm) (2U height)	
	Weight	66.14 lb (30 kg) shipping weight	
	Full configuration weight	59.52 lb (27 kg)	
Memory and processor	1 GB flash; Packet buffer size: 12.2 MB, 4 GB SDRAM		
Performance	10 Gbps Latency	< 1 μs (64-byte packets)	
	Throughput	up to 1429 Mpps	
	Routing/Switching capacity	2560 Gbps	
	Routing table size	128000 entries (IPv4), 64000 entries (IPv6)	
	MAC address table size	288000 entries	
Reliability	MTBF (years)	35.8	
	MTTR (hours)	1	
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)	
	Operating relative humidity	10% to 90%, noncondensing	
	Acoustic	Low-speed fan: 59.8 dB, High-speed fan: 74.4 dB	
Electrical characteristics	Voltage	90 - 264 VAC, rated -40 to -75 VDC, rated (depending on power supply chosen)	
	Maximum power rating	888 W	
	Idle power	139 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	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance	
	Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)	
Immunity	Generic	ETSI EN 300 386 V1.3.3	
	EN	EN 55024:1998+ A1:2001 + A2:2003	
	ESD	EN 61000-4-2; IEC 61000-4-2	
	Radiated	EN 61000-4-3; IEC 61000-4-3	
	EFT/Burst	EN 61000-4-4; IEC 61000-4-4	
	Surge	EN 61000-4-5; IEC 61000-4-5	
	Conducted	EN 61000-4-6; IEC 61000-4-6	
	Power frequency magnetic field	IEC 61000-4-8; EN 61000-4-8	
	Voltage dips and interruptions	EN 61000-4-11; IEC 61000-4-11	

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	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	IMC - Intelligent Management Center; Command-line interface; Out-of-band management; SNMP manager; Telnet; FTP	
Services	Refer to the Hewlett Packard Enterprise website at: http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	
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HPE FlexNetwork 5940 48p 10GbE SFP/SFP+ and 6p 40/100GbE QSFP28 with 2 Fans 2 PS Switch Bundle (JH684A)		
Includes	1 HPE FlexFabric 5940 2-slot Switch (JH390A) 2 HPE 58x0AF 650W AC Power Supplies (JC680A) (2) HPE X711 Front (Port Side) to Back (Power Side) Airflow High Volume Fan Trays (JG552A)	
I/O ports and slots	48 fixed 1000/10000 SFP+ ports 6 QSFP28 100GbE ports	
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 SFP GbE port 1 USB 2.0 1 Mini USB 2.0	
Power supplies	2 power supply slots	
Fan tray	2 fan tray slots This system requires two same-direction airflow fan trays to function properly. The system should not be operated with only one fan tray for more than 24 hours. The system should not be operated without a fan tray for more than two minutes. The system should not be operated outside of the temperature range of 32°F (0°C) to 113°F (45°C). Failure to comply with these operating requirements may void the product warranty.	
Physical characteristics	Dimensions	17.32(w) x 18.11(d) x 1.72(h) in (44 x 46 x 4.36 cm)
	Weight	24.25 lb (11 kg) shipping weight
Memory and processor	1 GB flash; Packet buffer size: 12.2 MB, 4 GB SDRAM	
Performance	10 Gbps Latency	< 1 μs (64-byte packets)
	Throughput	up to 1607 Mpps
	Routing/Switching capacity	2160 Gbps
	Routing table size	120000 entries (IPv4), 60000 entries (IPv6)
	MAC address table size	288000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	10% to 90%, noncondensing
	Acoustic	Low-speed fan: 65.7 dB, High-speed fan: 70.6 dB
Electrical characteristics	Maximum heat dissipation	887 BTU/hr (935.79 kJ/hr)
	Voltage	100 - 240 VAC, rated -40 to -60 VDC, rated (depending on power supply chosen)
	Maximum power rating	196 W
	Frequency	50/60 Hz
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the

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

Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance
Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
Immunity	<p>Generic EN 55024:1998+ A1:2001 + A2:2003</p> <p>EN EN 61000-4-2; IEC 61000-4-2</p> <p>ESD EN 61000-4-3; IEC 61000-4-3</p> <p>Radiated EN 61000-4-4; IEC 61000-4-4</p> <p>EFT/Burst EN 61000-4-5; IEC 61000-4-5</p> <p>Surge EN 61000-4-6; IEC 61000-4-6</p> <p>Conducted EN 55024:1998+ A1:2001 + A2:2003</p> <p>Power frequency magnetic field IEC 61000-4-8; EN 61000-4-8</p> <p>Voltage dips and interruptions EN 61000-4-11; IEC 61000-4-11</p> <p>Harmonics EN 61000-3-2, IEC 61000-3-2</p> <p>Flicker EN 61000-3-3, IEC 61000-3-3</p>
Management	IMC - Intelligent Management Center; Command-line interface; Out-of-band management; SNMP manager; Telnet; FTP
Services	Refer to the Hewlett Packard Enterprise website at: http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

HPE FlexNetwork 5940 48p 10GBaseT and 6p 40/100GbE QSFP28 with 2 Fans 2 PS Switch Bundle (JH685A)

Includes	<ul style="list-style-type: none"> 1 HPE FlexFabric 5940 48XGT 6QSFP28 Switch (JH391A) 2 HPE 58xOAF 650W AC Power Supplies (JC680A) 2 HPE X711 Front (Port Side) to Back (Power Side) Airflow High Volume Fan Trays (JG552A)
I/O ports and slots	<ul style="list-style-type: none"> 48 1/10GBASE-T ports 6 QSFP28 100GbE 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 SFP GbE port 1 USB 2.0 1 Mini USB 2.0
Power supplies	2 power supply slots
Fan tray	<ul style="list-style-type: none"> 2 fan tray slots This system requires two same-direction airflow fan trays to function properly. The system should not be operated with only one fan tray for more than 24 hours. The system should not be operated without a fan tray for more than two minutes. The system should not be operated outside of the temperature range of 32°F (0°C) to 113°F (45°C). Failure to comply with these operating requirements may void the product warranty.
Physical characteristics	<p>Dimensions 17.32(w) x 25.98(d) x 1.72(h) in (44 x 66 x 4.36 cm)</p> <p>Weight 28.66 lb (13 kg) shipping weight</p>
Memory and processor	1 GB flash; Packet buffer size: 12.2 MB, 4 GB SDRAM

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Performance	10 Gbps Latency	< 1 μ s (64-byte packets)
	Throughput	up to 1607 Mpps
	Routing/Switching capacity	2160 Gbps
	Routing table size	120000 entries (IPv4), 60000 entries (IPv6)
	MAC address table size	288000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	10% to 90%, noncondensing
	Acoustic	Low-speed fan: 65.7 dB, High-speed fan: 70.6 dB
Electrical characteristics	Maximum heat dissipation	887 BTU/hr (935.79 kJ/hr)
	Voltage	100 - 240 VAC, rated -40 to -60 VDC, rated (depending on power supply chosen)
	Maximum power rating	320 W
	Frequency	50/60 Hz
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
	Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance
Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)	
Immunity	Generic	EN 55024:1998+ A1:2001 + A2:2003
	EN	EN 61000-4-2; IEC 61000-4-2
	ESD	EN 61000-4-3; IEC 61000-4-3
	Radiated	EN 61000-4-4; IEC 61000-4-4
	EFT/Burst	EN 61000-4-5; IEC 61000-4-5
	Surge	EN 61000-4-6; IEC 61000-4-6
	Conducted	EN 55024:1998+ A1:2001 + A2:2003
	Power frequency magnetic field	IEC 61000-4-8; EN 61000-4-8
	Voltage dips and interruptions	EN 61000-4-11; IEC 61000-4-11
	Harmonics	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	
Management	IMC - Intelligent Management Center; Command-line interface; Out-of-band management; SNMP manager; Telnet; FTP	
Services	Refer to the Hewlett Packard Enterprise website at: http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

Technical Specifications

Includes	1 HPE FlexFabric 5940 48SFP+ 6QSFP28 Switch (JH396A) 2 HPE 58x0AF 650W AC Power Supplies (JC680A) 2 HPE X711 Front (Port Side) to Back (Power Side) Airflow High Volume Fan Trays (JG552A)
I/O ports and slots	32 QSFP+ 40GbE ports
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 USB 2.0 1 Mini USB 2.0
Power supplies	2 power supply slots
Fan tray	2 fan tray slots This system requires two same-direction airflow fan trays to function properly. The system should not be operated with only one fan tray for more than 24 hours. The system should not be operated without a fan tray for more than two minutes. The system should not be operated outside of the temperature range of 32°F (0°C) to 113°F (45°C). Failure to comply with these operating requirements may void the product warranty.
Physical characteristics	Dimensions 17.32(w) x 25.98(d) x 1.74(h) in (44.00 x 66.0 x 4.42 cm) Weight 35.27 lb (16 kg) shipping weight Full configuration weight 28.66 lb (13 kg)
Memory and processor	1 GB flash; Packet buffer size: 12.2 MB, 4 GB SDRAM
Performance	10 Gbps Latency < 1 μs (64-byte packets) Throughput up to 1904Mpps Routing/Switching capacity 2560 Gbps Routing table size 120000 entries (IPv4), 60000 entries (IPv6) MAC address table size 288000 entries
Environment	Operating temperature 32°F to 113°F (0°C to 45°C) Operating relative humidity 10% to 90%, noncondensing Acoustic Low-speed fan: 59.8 dB, High-speed fan: 74.4 dB
Electrical characteristics	Maximum heat dissipation 597/1361 BTU/hr (629.83/1435.86 kJ/hr) Voltage 90 - 264 VAC, rated -40 to -75 VDC, rated (depending on power supply chosen) Maximum power rating 409 W Frequency 50/60 Hz Notes Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance
Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
Immunity	Generic EN 55024:1998+ A1:2001 + A2:2003 EN EN 61000-4-2; IEC 61000-4-2

Technical Specifications

ESD	EN 61000-4-3; IEC 61000-4-3
Radiated	EN 61000-4-4; IEC 61000-4-4
EFT/Burst	EN 61000-4-5; IEC 61000-4-5
Surge	EN 61000-4-6; IEC 61000-4-6
Conducted	EN 55024:1998+ A1:2001 + A2:2003
Power frequency magnetic field	IEC 61000-4-8; EN 61000-4-8
Voltage dips and interruptions	EN 61000-4-11; IEC 61000-4-11
Harmonics	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3
Management	IMC - Intelligent Management Center; Command-line interface; Out-of-band management; SNMP manager; Telnet; FTP
Services	Refer to the Hewlett Packard Enterprise website at: http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

HPE FlexNetwork 5940 2-slot Chassis with 2 Fans 2 Power Supply Bundle (JH691A)

Includes	1 HPE FlexFabric 5940 2-slot Switch (JH397A) 2 HPE 58x0AF 650W AC Power Supplies (JC680A) 2 HPE X711 Front (Port Side) to Back (Power Side) Airflow High Volume Fan Trays (JG552A)
I/O ports and slots	2 module slots 1 QSFP+ 40GbE ports Supports a maximum of 18 40GbE ports or 48 1/10GBASE-T ports or 48 SFP+ ports or 48 Converged ports, or a combination
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 USB 2.0 1 Mini USB 2.0
Power supplies	2 power supply slots
Fan tray	2 fan tray slots This system requires two same-direction airflow fan trays to function properly. The system should not be operated with only one fan tray for more than 24 hours. The system should not be operated without a fan tray for more than two minutes. The system should not be operated outside of the temperature range of 32°F (0°C) to 113°F (45°C). Failure to comply with these operating requirements may void the product warranty.
Physical characteristics	Dimensions 17.32(w) x 25.98(d) x 1.74(h) in (44.00 x 66.0 x 4.42 cm) (1U height) Weight 39.68 lb (18 kg) shipping weight Full configuration weight 35.27 lb (16 kg)
Memory and processor	1 GB flash; Packet buffer size: 12.2 MB, 4 GB SDRAM
Performance	10 Gbps Latency < 1 μs (64-byte packets) Throughput up to 1071 Mpps Routing/Switching capacity 1440 Gbps Routing table size 128000 entries (IPv4), 64000 entries (IPv6) MAC address table size 288000 entries

Technical Specifications

Reliability	MTBF (years)	47.2
	MTTR (hours)	1
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	10% to 90%, noncondensing
	Acoustic	Low-speed fan: 59.8 dB, High-speed fan: 74.4 dB
Electrical characteristics	Voltage	90 - 264 VAC, rated -40 to -75 VDC, rated (depending on power supply chosen)
	Maximum power rating	508 W
	Idle power	105 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	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance
	Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
Immunity	Generic	EN 55024:1998+ A1:2001 + A2:2003
	EN	EN 61000-4-2; IEC 61000-4-2
	ESD	EN 61000-4-3; IEC 61000-4-3
	Radiated	EN 61000-4-4; IEC 61000-4-4
	EFT/Burst	EN 61000-4-5; IEC 61000-4-5
	Surge	EN 61000-4-6; IEC 61000-4-6
	Conducted	EN 55024:1998+ A1:2001 + A2:2003
	Power frequency magnetic field	IEC 61000-4-8; EN 61000-4-8
	Voltage dips and interruptions	EN 61000-4-11; IEC 61000-4-11
Management	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	IMC - Intelligent Management Center; Command-line interface; Out-of-band management; SNMP manager; Telnet; FTP	
Services	Refer to the Hewlett Packard Enterprise website at: http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

HPE FlexNetwork 5940 4-slot Chassis with 2 Fans 4 Power Supply Bundle (JH692A)

Includes	1 HPE FlexFabric 5940 4-slot Switch (JH398A)
	4 HPE 58x0AF 650W AC Power Supplies (JC680A)
	2 HPE 5930 4-slot Front (Port Side) to Back (Power Side) Airflow Fan Trays (JH186A)

Technical Specifications

I/O ports and slots	4 module slots Supports a maximum of 32 40GbE ports or 96 1/10GBASE-T ports or 96 SFP+ ports or 96 Converged ports, or a combination
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 USB 2.0 1 Mini USB 2.0
Power supplies	4 power supply slots
Fan tray	2 fan tray slots This system requires two same-direction airflow fan trays to function properly. The system should not be operated with only one fan tray for more than 24 hours. The system should not be operated without a fan tray for more than two minutes. The system should not be operated outside of the temperature range of 32°F (0°C) to 113°F (45°C). Failure to comply with these operating requirements may void the product warranty.
Physical characteristics	Dimensions 17.32(w) x 25.98(d) x 3.47(h) in (44.00 x 66.0 x 8.81 cm) (2U height) Weight 66.14 lb (30 kg) shipping weight Full configuration weight 59.52 lb (27 kg)
Memory and processor	1 GB flash; Packet buffer size: 12.2 MB, 4 GB SDRAM
Performance	10 Gbps Latency < 1 μs (64-byte packets) Throughput up to 1429 Mpps Routing/Switching capacity 2560 Gbps Routing table size 128000 entries (IPv4), 64000 entries (IPv6) MAC address table size 288000 entries
Reliability	MTBF (years) 35.8 MTTR (hours) 1
Environment	Operating temperature 32°F to 113°F (0°C to 45°C) Operating relative humidity 10% to 90%, noncondensing Acoustic Low-speed fan: 59.8 dB, High-speed fan: 74.4 dB
Electrical characteristics	Voltage 90 - 264 VAC, rated -40 to -75 VDC, rated (depending on power supply chosen) Maximum power rating 888 W Idle power 139 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	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance
Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A; ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)

Technical Specifications

Immunity	Generic	EN 55024:1998+ A1:2001 + A2:2003
	EN	EN 61000-4-2; IEC 61000-4-2
	ESD	EN 61000-4-3; IEC 61000-4-3
	Radiated	EN 61000-4-4; IEC 61000-4-4
	EFT/Burst	EN 61000-4-5; IEC 61000-4-5
	Surge	EN 61000-4-6; IEC 61000-4-6
	Conducted	EN 55024:1998+ A1:2001 + A2:2003
	Power frequency magnetic field	IEC 61000-4-8; EN 61000-4-8
	Voltage dips and interruptions	EN 61000-4-11; IEC 61000-4-11
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
	Management	IMC - Intelligent Management Center; Command-line interface; Out-of-band management; SNMP manager; Telnet; FTP
Services	Refer to the Hewlett Packard Enterprise website at: http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

Standards and protocols (applies to all products in series)

BGP	RFC 1163 Border Gateway Protocol (BGP) RFC 1771 BGPv4 RFC 1997 BGP Communities Attribute RFC 2918 Route Refresh Capability RFC 3392 Capabilities Advertisement with BGP-4 RFC 4271 A Border Gateway Protocol 4 (BGP-4) RFC 4360 BGP Extended Communities Attribute RFC 4456 BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP) RFC 4760 Multiprotocol Extensions for BGP-4 RFC 7432 BGP MPLS-Based Ethernet VPN
Device Management	RFC 1157 SNMPv1/v2c RFC 1305 NTPv3 RFC 1591 DNS (client) RFC 1902 (SNMPv2) RFC 1908 (SNMP v1/2 Coexistence) RFC 2573 (SNMPv3 Applications) RFC 2576 (Coexistence between SNMP V1, V2, V3) RFC 2819 RMON Multiple Configuration Files Multiple Software Images SSHv1/SSHv2 Secure Shell TACACS/TACACS+
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

Technical Specifications

IEEE 802.1s Multiple Spanning Trees
IEEE 802.1w Rapid Reconfiguration of Spanning Tree
IEEE 802.3ad Link Aggregation Control Protocol (LACP)
IEEE 802.3ae 10-Gigabit Ethernet
IEEE 802.3ag Ethernet OAM
IEEE 802.3ah Ethernet in First Mile over Point to Point Fiber - EFMF
IEEE 802.3x Flow Control
RFC 768 UDP
RFC 783 TFTP Protocol (revision 2)
RFC 791 IP
RFC 792 ICMP
RFC 793 TCP
RFC 826 ARP
RFC 854 TELNET
RFC 856 TELNET
RFC 868 Time Protocol
RFC 896 Congestion Control in IP/TCP Internetworks
RFC 950 Internet Standard Subnetting Procedure
RFC 1027 Proxy ARP
RFC 1058 RIPv1
RFC 1091 Telnet Terminal-Type Option
RFC 1141 Incremental updating of the Internet checksum
RFC 1142 OSI IS-IS Intra-domain Routing Protocol
RFC 1191 Path MTU discovery
RFC 1213 Management Information Base for Network Management of TCP/IP-based internets
RFC 1253 (OSPF v2)
RFC 1531 Dynamic Host Configuration Protocol
RFC 1533 DHCP Options and BOOTP Vendor Extensions
RFC 1534 DHCP/BOOTP Interoperation
RFC 1541 DHCP
RFC 1542 Clarifications and Extensions for the Bootstrap Protocol
RFC 1591 DNS (client only)
RFC 1624 Incremental Internet Checksum
RFC 1723 RIP v2
RFC 1812 IPv4 Routing
RFC 2030 Simple Network Time Protocol (SNTP) v4
RFC 2131 DHCP
RFC 2236 IGMP Snooping
RFC 2338 VRRP
RFC 2453 RIPv2
RFC 2581 TCP Congestion Control
RFC 2644 Directed Broadcast Control
RFC 2767 Dual Stack Hosts using BIS
RFC 2865 Remote Authentication Dial In User Service (RADIUS)
RFC 2868 RADIUS Attributes for Tunnel Protocol Support
RFC 2890 Key and Sequence Number Extensions to GRE
RFC 2929 DNS IANA Considerations
RFC 3046 DHCP Relay Agent Information Option
RFC 3411 An Architecture for Describing Simple Network Management Protocol (SNMP) Management Frameworks
RFC 3412 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)
RFC 3413 Simple Network Management Protocol (SNMP) Applications
RFC 3416 Protocol Operations for SNMP
RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP)

Technical Specifications

RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)
RFC 3768 Virtual Router Redundancy Protocol (VRRP)
RFC 4250 The Secure Shell (SSH) Protocol Assigned Numbers
RFC 4251 The Secure Shell (SSH) Protocol Architecture
RFC 4252 The Secure Shell (SSH) Authentication Protocol
RFC 4253 The Secure Shell (SSH) Transport Layer Protocol
RFC 4254 The Secure Shell (SSH) Connection Protocol
RFC 4292 IP Forwarding Table MIB
RFC 4293 Management Information Base for the Internet Protocol (IP)
RFC 4364 BGP/MPLS IP Virtual Private Networks (VPNs)
RFC 4419 Diffie-Hellman Group Exchange for the Secure Shell (SSH) Transport Layer Protocol
RFC 4594 Configuration Guidelines for DiffServ Service Classes
RFC 4601 Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification (Revised)
RFC 4604 Using Internet Group Management Protocol Version 3 (IGMPv3) and Multicast Listener Discovery Protocol Version 2 (MLDv2) for Source-Specific Multicast
RFC 4607 Source-Specific Multicast for IP
RFC 4941 Privacy Extensions for Stateless Address Autoconfiguration in IPv6
RFC 5340 OSPF for IPv6
RFC 5905 Network Time Protocol Version 4: Protocol and Algorithms Specification

IPv6

RFC 2080 RIPng for IPv6
RFC 2460 IPv6 Specification
RFC 2461 IPv6 Neighbor Discovery
RFC 2462 IPv6 Stateless Address Auto-configuration
RFC 2463 ICMPv6
RFC 2464 Transmission of IPv6 over Ethernet Networks
RFC 2473 Generic Packet Tunneling in IPv6
RFC 2545 Use of MP-BGP-4 for IPv6
RFC 2563 ICMPv6
RFC 2711 IPv6 Router Alert Option
RFC 2740 OSPFv3 for IPv6
RFC 2767 Dual Stack Hosts using BIS
RFC 3315 DHCPv6 (client and relay)
RFC 3484 Default Address Selection for IPv6
RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6
RFC 4213 Basic Transition Mechanisms for IPv6 Hosts and Routers
RFC 4291 IP Version 6 Addressing Architecture
RFC 4443 ICMPv6
RFC 4552 Authentication/Confidentiality for OSPFv3
RFC 4862 IPv6 Stateless Address Auto-configuration
RFC 5095 Deprecation of Type 0 Routing Headers in IPv6

MIBs

RFC 1213 MIB II
RFC 1907 SNMPv2 MIB
RFC 2571 SNMP Framework MIB
RFC 2572 SNMP-MPD MIB
RFC 2573 SNMP-Notification MIB
RFC 2573 SNMP-Target MIB
RFC 2574 SNMP USM MIB
RFC 2737 Entity MIB (Version 2)
RFC 3414 SNMP-User based-SM MIB
RFC 3415 SNMP-View based-ACM MIB
LLDP-EXT-DOT1-MIB
LLDP-EXT-DOT3-MIB

Technical Specifications

LLDP-MIB

Network Management RFC 2580 Conformance Statements for SMIv2
RFC 3164 BSD syslog Protocol

OSPF RFC 1587 OSPF NSSA
RFC 2328 OSPFv2
RFC 3101 OSPF NSSA
RFC 3137 OSPF Stub Router Advertisement
RFC 3623 Graceful OSPF Restart
RFC 4577 OSPF as the Provider/Customer Edge Protocol for BGP/MPLS IP Virtual Private Networks (VPNs)
RFC 4811 OSPF Out-of-Band LSDB Resynchronization
RFC 4812 OSPF Restart Signaling
RFC 4813 OSPF Link-Local Signaling

QoS/CoS IEEE 802.1p (CoS)
RFC 2475 DiffServ Architecture
RFC 2597 DiffServ Assured Forwarding (AF)
RFC 3247 Supplemental Information for the New Definition of the EF PHB (Expedited Forwarding Per-Hop Behavior)
RFC 3260 New Terminology and Clarifications for DiffServ

Security RFC 1321 The MD5 Message-Digest Algorithm
RFC 2818 HTTP Over TLS
RFC 6192 Partial Support - Protecting the Router Control Plane
Access Control Lists (ACLs)
SSHv2 Secure Shell

Accessories

HPE FlexFabric 5940 Switch Series accessories

HPE FlexFabric 5940 48SFP+ 6QSFP+ Switch (JH395A)

HPE X130 10G SFP+ LC LRM Transceiver	JD093B
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE X130 10G SFP+ LC LH80 tunable Transceiver	JL250A
HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HPE X130 10G SFP+ LC LH 80km Transceiver	JG915A
HPE A58x0AF Back (Power Side) to Front (Port Side) Airflow 300W AC Power Supply	JG900A
HPE A58x0AF Back (Power Side) to Front (Port Side) Airflow 300W DC Power Supply	JG901A
HPE 58x0AF 650W AC Power Supply	JC680A
HP 58x0AF 650W DC Power Supply	JC681A
HPE 58x0AF Back (Power Side) to Front (Port Side) Airflow Fan Tray	JC682A
HPE 58x0AF Front (Port Side) to Back (Power Side) Airflow Fan Tray	JC683A
HPE X711 Front (Port Side) to Back (Power Side) Airflow High Volume Fan Tray	JG552A
HPE X712 Back (Power Side) to Front (Port Side) Airflow High Volume Fan Tray	JG553A

HPE FlexFabric 5940 32QSFP+ Switch (JH396A)

Accessories

HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A
HPE X140 40G QSFP+ LC LR4L 2km SM Transceiver	JL286A
HPE 58x0AF 650W AC Power Supply	JC680A
HP 58x0AF 650W DC Power Supply	JC681A
HPE X711 Front	
HPE X712 Back	

HPE FlexFabric 5940 48XGT 6QSFP+ Switch (JH394A)

HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A
HPE 58x0AF 650W AC Power Supply	JC680A
HP 58x0AF 650W DC Power Supply	JC681A
HPE X711 Front (Port Side) to Back (Power Side) Airflow High Volume Fan Tray	JG552A
HPE X712 Back (Power Side) to Front (Port Side) Airflow High Volume Fan Tray	JG553A

HPE FlexFabric 5940 48SFP+ 6QSFP28 Switch (JH390A)

HPE X130 10G SFP+ LC LRM Transceiver	JD093B
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X150 100G QSFP28 CWDM4 2km SM Transceiver	JH673A
HPE X150 100G QSFP28 LC SWDM4 100m MM Transceiver	JH419A
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A

Accessories

HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE X130 10G SFP+ LC LH80 tunable Transceiver	JL250A
HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A
HPE X240 QSFP28 4xSFP28 1m Direct Attach Copper Cable	JL282A
HPE X240 QSFP28 4xSFP28 3m Direct Attach Copper Cable	JL283A
HPE X240 QSFP28 4xSFP28 5m Direct Attach Copper Cable	JL284A
HPE X240 100G QSFP28 to QSFP28 5m Direct Attach Copper Cable	JL273A
HPE X240 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable	JL271A
HPE X240 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable	JL272A
HPE X150 100G QSFP28 MPO PSM4 500m SM Transceiver	JH420A
HPE X150 100G QSFP28 MPO SR4 100m MM Transceiver	JL274A
HPE X150 100G QSFP28 LC LR4 10km SM Transceiver	JL275A
HPE X2A0 100G QSFP28 to QSFP28 7m Active Optical Cable	JL276A
HPE X2A0 100G QSFP28 to QSFP28 10m Active Optical Cable	JL277A
HPE X2A0 100G QSFP28 to QSFP28 20m Active Optical Cable	JL278A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE X130 10G SFP+ LC LH 80km Transceiver	JG915A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A
HPE A58x0AF Back (Power Side) to Front (Port Side) Airflow 300W AC Power Supply	JG900A
HPE A58x0AF Back (Power Side) to Front (Port Side) Airflow 300W DC Power Supply	JG901A
HPE 58x0AF 650W AC Power Supply	JC680A
HP 58x0AF 650W DC Power Supply	JC681A
HPE 58x0AF Back (Power Side) to Front (Port Side) Airflow Fan Tray	JC682A
HPE 58x0AF Front (Port Side) to Back (Power Side) Airflow Fan Tray	JC683A
HPE X711 Front (Port Side) to Back (Power Side) Airflow High Volume Fan Tray	JG552A
HPE X712 Back (Power Side) to Front (Port Side) Airflow High Volume Fan Tray	JG553A

HPE FlexFabric 5940 48XGT 6QSFP28 Switch (JH391A)

HPE X240 100G QSFP28 to QSFP28 5m Direct Attach Copper Cable	JL273A
HPE X240 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable	JL271A

Accessories

HPE X240 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable	JL272A
HPE X150 100G QSFP28 MPO PSM4 500m SM Transceiver	JH420A
HPE X150 100G QSFP28 MPO SR4 100m MM Transceiver	JL274A
HPE X150 100G QSFP28 LC LR4 10km SM Transceiver	JL275A
HPE X150 100G QSFP28 CWDM4 2km SM Transceiver	JH673A
HPE X150 100G QSFP28 LC SWDM4 100m MM Transceiver	JH419A
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A
HPE 58x0AF 650W AC Power Supply	JC680A
HP 58x0AF 650W DC Power Supply	JC681A
HPE X711 Front (Port Side) to Back (Power Side) Airflow High Volume Fan Tray	JG552A
HPE X712 Back (Power Side) to Front (Port Side) Airflow High Volume Fan Tray	JG553A

HPE FlexFabric 5940 2-slot Switch (JH397A)

HPE 5940 2-port QSFP+ and 2-port QSFP28 Module	JH409A
HPE 5930 24-port SFP+ and 2-port QSFP+ Module	JH180A
HPE 5930 24-port SFP+ and 2-port QSFP+ with MACsec Module	JH181A
HPE 5930 24-port 10GBASE-T and 2-port QSFP+ with MACsec Module	JH182A
HPE 5930 8-port QSFP+ Module	JH183A
HPE 5930 24-port Converged Port and 2-port QSFP+ Module	JH184A
HPE FlexFabric 5950 8-port QSFP28 MACsec Module	JH957A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LRM Transceiver	JD093B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE X130 10G SFP+ LC LH80 tunable Transceiver	JL250A
HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B

Accessories

HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X140 40G QSFP+ LC LR4L 2km SM Transceiver	JL286A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A
HPE X240 QSFP28 4xSFP28 1m Direct Attach Copper Cable	JL282A
HPE X240 QSFP28 4xSFP28 3m Direct Attach Copper Cable	JL283A
HPE X240 QSFP28 4xSFP28 5m Direct Attach Copper Cable	JL284A
HPE X240 100G QSFP28 to QSFP28 5m Direct Attach Copper Cable	JL273A
HPE X240 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable	JL271A
HPE X240 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable	JL272A
HPE X150 100G QSFP28 MPO PSM4 500m SM Transceiver	JH420A
HPE X150 100G QSFP28 MPO SR4 100m MM Transceiver	JL274A
HPE X150 100G QSFP28 LC LR4 10km SM Transceiver	JL275A
HPE X150 100G QSFP28 CWDM4 2km SM Transceiver	JH673A
HPE X150 100G QSFP28 LC SWDM4 100m MM Transceiver	JH419A
HPE X2A0 100G QSFP28 to QSFP28 7m Active Optical Cable	JL276A
HPE X2A0 100G QSFP28 to QSFP28 10m Active Optical Cable	JL277A
HPE X2A0 100G QSFP28 to QSFP28 20m Active Optical Cable	JL278A
HPE 58x0AF 650W AC Power Supply	JC680A
HP 58x0AF 650W DC Power Supply	JC681A
HPE X711 Front (Port Side) to Back (Power Side) Airflow High Volume Fan Tray	JG552A
HPE X712 Back (Power Side) to Front (Port Side) Airflow High Volume Fan Tray	JG553A

HPE FlexFabric 5940 4-slot Switch (JH398A)

HPE 5940 2-port QSFP+ and 2-port QSFP28 Module	JH409A
HPE 5930 24-port SFP+ and 2-port QSFP+ Module	JH180A
HPE 5930 24-port SFP+ and 2-port QSFP+ with MACsec Module	JH181A
HPE 5930 24-port 10GBASE-T and 2-port QSFP+ with MACsec Module	JH182A
HPE 5930 8-port QSFP+ Module	JH183A
HPE 5930 24-port Converged Port and 2-port QSFP+ Module	JH184A
HPE FlexFabric 5950 8-port QSFP28 MACsec Module	JH957A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LRM Transceiver	JD093B

Accessories

HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE X130 10G SFP+ LC LH80 tunable Transceiver	JL250A
HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A
HPE X140 40G QSFP+ MPO SR4 Transceiver	JG325B
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable	JG330A
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Transceiver	JG661A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Transceiver	JG709A
HPE X140 40G QSFP+ LC BiDi 100m MM Transceiver	JL251A
HPE X140 40G QSFP+ LC LR4L 2km SM Transceiver	JL286A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A
HPE X240 QSFP28 4xSFP28 1m Direct Attach Copper Cable	JL282A
HPE X240 QSFP28 4xSFP28 3m Direct Attach Copper Cable	JL283A
HPE X240 QSFP28 4xSFP28 5m Direct Attach Copper Cable	JL284A
HPE X240 100G QSFP28 to QSFP28 5m Direct Attach Copper Cable	JL273A
HPE X150 100G QSFP28 LC SWDM4 100m MM Transceiver	JH419A
HPE X240 100G QSFP28 to QSFP28 1m Direct Attach Copper Cable	JL271A
HPE X240 100G QSFP28 to QSFP28 3m Direct Attach Copper Cable	JL272A
HPE X150 100G QSFP28 MPO PSM4 500m SM Transceiver	JH420A
HPE X150 100G QSFP28 MPO SR4 100m MM Transceiver	JL274A
HPE X150 100G QSFP28 LC LR4 10km SM Transceiver	JL275A
HPE X150 100G QSFP28 CWDM4 2km SM Transceiver	JH673A
HPE X2A0 100G QSFP28 to QSFP28 7m Active Optical Cable	JL276A
HPE X2A0 100G QSFP28 to QSFP28 10m Active Optical Cable	JL277A
HPE X2A0 100G QSFP28 to QSFP28 20m Active Optical Cable	JL278A
HPE 58x0AF 650W AC Power Supply	JC680A
HP 58x0AF 650W DC Power Supply	JC681A
HPE 5930 4-slot Back (Power Side) to Front (Port Side) Airflow Fan Tray	JH185A
HPE 5930 4-slot Front (Port Side) to Back (Power Side) Airflow Fan Tray	JH186A

HPE FlexNetwork 5940 48p 10GbE SFP/SFP+ and 6p 40/100GbE QSFP28 with 2 Fans 2 PS Switch Bundle (JH684A)

HPE X130 10G SFP+ LC LRM Transceiver	JD093B
HPE X240 10G SFP+ to SFP+ 7m Direct Attach Copper Campus-Cable	JH696A
HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Campus-Cable	JH694A
HPE X240 10G SFP+ to SFP+ 3m Direct Attach Copper Campus-Cable	JH695A
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A

Accessories

HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE X130 10G SFP+ LC LH80 tunable Transceiver	JL250A
HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A
HPE X240 QSFP28 4xSFP28 1m Direct Attach Copper Cable	JL282A
HPE X240 QSFP28 4xSFP28 3m Direct Attach Copper Cable	JL283A
HPE X150 100G QSFP28 CWDM4 2km SM Transceiver	JH673A
HPE X150 100G QSFP28 LC SWDM4 100m MM Transceiver	JH419A
HPE X240 QSFP28 4xSFP28 5m Direct Attach Copper Cable	JL284A
HPE X240 100G QSFP28 to QSFP28 5m Direct Attach Copper Campus-Cable	JH703A
HPE X240 100G QSFP28 to QSFP28 1m Direct Attach Copper Campus-Cable	JH701A
HPE X240 100G QSFP28 to QSFP28 3m Direct Attach Copper Campus-Cable	JH702A
HPE X150 100G QSFP28 MPO SR4 100m MM Campus-Transceiver	JH682A
HPE X150 100G QSFP28 LC LR4 10km SM Campus-Transceiver	JH683A
HPE X2A0 100G QSFP28 to QSFP28 7m Active Optical Cable	JL276A
HPE X2A0 100G QSFP28 to QSFP28 10m Active Optical Cable	JL277A
HPE X2A0 100G QSFP28 to QSFP28 20m Active Optical Cable	JL278A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Campus-Cable	JH693A
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HPE X140 40G QSFP+ MPO SR4 Campus-Transceiver	JH679A
HPE X240 40G QSFP+ to QSFP+ 1m Direct Attach Copper Campus-Cable	JH697A
HPE X240 40G QSFP+ to QSFP+ 3m Direct Attach Copper Campus-Cable	JH698A
HPE X240 40G QSFP+ to QSFP+ 5m Direct Attach Copper Campus-Cable	JH699A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Campus-Cable	JH700A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Campus-Transceiver	JH677A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Campus-Transceiver	JH681A
HPE X130 10G SFP+ LC LH 80km Transceiver	JG915A
HPE X140 40G QSFP+ LC BiDi 100m MM Campus-Transceiver	JH678A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A
HPE A58x0AF Back (Power Side) to Front (Port Side) Airflow 300W AC Power Supply	JG900A
HPE A58x0AF Back (Power Side) to Front (Port Side) Airflow 300W DC Power Supply	JG901A
HPE 58x0AF 650W AC Power Supply	JC680A
HP 58x0AF 650W DC Power Supply	JC681A
HPE 58x0AF Back (Power Side) to Front (Port Side) Airflow Fan Tray	JC682A
HPE 58x0AF Front (Port Side) to Back (Power Side) Airflow Fan Tray	JC683A
HPE X711 Front (Port Side) to Back (Power Side) Airflow High Volume Fan Tray	JG552A
HPE X712 Back (Power Side) to Front (Port Side) Airflow High Volume Fan Tray	JG553A

HPE FlexNetwork 5940 48p 10GBaseT and 6p 40/100GbE QSFP28 with 2 Fans 2 PS Switch Bundle (JH685A)

HPE X240 100G QSFP28 to QSFP28 5m Direct Attach Copper Campus-Cable	JH703A
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Accessories

HPE X240 100G QSFP28 to QSFP28 1m Direct Attach Copper Campus-Cable	JH701A
HPE X240 100G QSFP28 to QSFP28 3m Direct Attach Copper Campus-Cable	JH702A
HPE X150 100G QSFP28 MPO SR4 100m MM Campus-Transceiver	JH682A
HPE X150 100G QSFP28 LC LR4 10km SM Campus-Transceiver	JH683A
HPE X150 100G QSFP28 CWDM4 2km SM Transceiver	JH673A
HPE X150 100G QSFP28 LC SWDM4 100m MM Transceiver	JH419A
HPE X140 40G QSFP+ MPO SR4 Campus-Transceiver	JH679A
HPE X240 40G QSFP+ to QSFP+ 1m Direct Attach Copper Campus-Cable	JH697A
HPE X240 40G QSFP+ to QSFP+ 3m Direct Attach Copper Campus-Cable	JH698A
HPE X240 40G QSFP+ to QSFP+ 5m Direct Attach Copper Campus-Cable	JH699A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Campus-Cable	JH700A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Campus-Transceiver	JH677A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Campus-Transceiver	JH681A
HPE X140 40G QSFP+ LC BiDi 100m MM Campus-Transceiver	JH678A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A
HPE 58x0AF 650W AC Power Supply	JC680A
HP 58x0AF 650W DC Power Supply	JC681A
HPE X711 Front (Port Side) to Back (Power Side) Airflow High Volume Fan Tray	JG552A
HPE X712 Back (Power Side) to Front (Port Side) Airflow High Volume Fan Tray	JG553A

HPE FlexNetwork 5940 32-port 40GbE QSFP+ with 2 Fans 2 Power Supply Switch Bundle (JH686A)

HPE X140 40G QSFP+ MPO SR4 Campus-Transceiver	JH679A
HPE X240 40G QSFP+ to QSFP+ 1m Direct Attach Copper Campus-Cable	JH697A
HPE X240 40G QSFP+ to QSFP+ 3m Direct Attach Copper Campus-Cable	JH698A
HPE X240 40G QSFP+ to QSFP+ 5m Direct Attach Copper Campus-Cable	JH699A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Campus-Cable	JH700A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Campus-Transceiver	JH677A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Campus-Transceiver	JH681A
HPE X140 40G QSFP+ LC BiDi 100m MM Campus-Transceiver	JH678A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A
HPE X140 40G QSFP+ LC LR4L 2km SM Transceiver	JL286A
HPE 58x0AF 650W AC Power Supply	JC680A
HP 58x0AF 650W DC Power Supply	JC681A

HPE FlexNetwork 5940 2-slot Chassis with 2 Fans 2 Power Supply Bundle (JH691A)

HPE 5940 2-port QSFP+ and 2-port QSFP28 Module	JH409A
HPE FlexNetwork 5930 24-port 10GbE SFP/SFP+ and 2-port 40GbE QSFP+ Module	JH689A
HPE 5930 24-port SFP+ and 2-port QSFP+ with MACsec Module	JH181A
HPE FlexNetwork 5930 24-port 10GBASE-T and 2-port 40GbE QSFP+ MACsec Module	JH690A
HPE 5930 8-port QSFP+ Module	JH183A

Accessories

HPE 5930 24-port Converged Port and 2-port QSFP+ Module	JH184A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LRM Transceiver	JD093B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Campus-Cable	JH694A
HPE X240 10G SFP+ to SFP+ 3m Direct Attach Copper Campus-Cable	JH695A
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE X130 10G SFP+ LC LH80 tunable Transceiver	JL250A
HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A
HPE X140 40G QSFP+ MPO SR4 Campus-Transceiver	JH679A
HPE X240 40G QSFP+ to QSFP+ 1m Direct Attach Copper Campus-Cable	JH697A
HPE X240 40G QSFP+ to QSFP+ 3m Direct Attach Copper Campus-Cable	JH698A
HPE X240 40G QSFP+ to QSFP+ 5m Direct Attach Copper Campus-Cable	JH699A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Campus-Cable	JH700A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Campus-Transceiver	JH677A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Campus-Transceiver	JH681A
HPE X140 40G QSFP+ LC BiDi 100m MM Campus-Transceiver	JH678A
HPE X140 40G QSFP+ LC LR4L 2km SM Campus-Transceiver	JH680A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A
HPE 58x0AF 650W AC Power Supply	JC680A
HP 58x0AF 650W DC Power Supply	JC681A
HPE X711 Front (Port Side) to Back (Power Side) Airflow High Volume Fan Tray	JG552A
HPE X712 Back (Power Side) to Front (Port Side) Airflow High Volume Fan Tray	JG553A

HPE FlexNetwork 5940 4-slot Chassis with 2 Fans 4 Power Supply Bundle (JH692A)

HPE 5940 2-port QSFP+ and 2-port QSFP28 Module	JH409A
HPE FlexNetwork 5930 24-port 10GbE SFP/SFP+ and 2-port 40GbE QSFP+ Module	JH689A
HPE 5930 24-port SFP+ and 2-port QSFP+ with MACsec Module	JH181A
HPE FlexNetwork 5930 24-port 10GBASE-T and 2-port 40GbE QSFP+ MACsec Module	JH690A
HPE 5930 8-port QSFP+ Module	JH183A
HPE 5930 24-port Converged Port and 2-port QSFP+ Module	JH184A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC SX Transceiver	JD118B

Accessories

HPE X120 1G SFP LC LX Transceiver	JD119B
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC SR Data Center Transceiver	JL437A
HPE X130 10G SFP+ LC LRM Transceiver	JD093B
HPE X130 10G SFP+ LC LRM Data Center Transceiver	JL438A
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X130 10G SFP+ LC LR Data Center Transceiver	JL439A
HPE X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Campus-Cable	JH694A
HPE X240 10G SFP+ to SFP+ 3m Direct Attach Copper Campus-Cable	JH695A
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE X130 10G SFP+ LC LH80 tunable Transceiver	JL250A
HPE X2A0 10G SFP+ to SFP+ 7m Active Optical Cable	JL290A
HPE X2A0 10G SFP+ to SFP+ 10m Active Optical Cable	JL291A
HPE X2A0 10G SFP+ to SFP+ 20m Active Optical Cable	JL292A
HPE X140 40G QSFP+ MPO SR4 Campus-Transceiver	JH679A
HPE X240 40G QSFP+ to QSFP+ 1m Direct Attach Copper Campus-Cable	JH697A
HPE X240 40G QSFP+ to QSFP+ 3m Direct Attach Copper Campus-Cable	JH698A
HPE X240 40G QSFP+ to QSFP+ 5m Direct Attach Copper Campus-Cable	JH699A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable	JG329A
HPE X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Campus-Cable	JH700A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable	JG331A
HPE X140 40G QSFP+ LC ER4 40km SM Transceiver	JL306A
HPE X140 40G QSFP+ LC LR4 SM 10km 1310nm Campus-Transceiver	JH677A
HPE X140 40G QSFP+ MPO MM 850nm CSR4 300m Campus-Transceiver	JH681A
HPE X140 40G QSFP+ LC BiDi 100m MM Campus-Transceiver	JH678A
HPE X140 40G QSFP+ LC LR4L 2km SM Campus-Transceiver	JH680A
HPE X2A0 40G QSFP+ to QSFP+ 7m Active Optical Cable	JL287A
HPE X2A0 40G QSFP+ to QSFP+ 10m Active Optical Cable	JL288A
HPE X2A0 40G QSFP+ to QSFP+ 20m Active Optical Cable	JL289A
HPE 58x0AF 650W AC Power Supply	JC680A
HP 58x0AF 650W DC Power Supply	JC681A
HPE 5930 4-slot Back (Power Side) to Front (Port Side) Airflow Fan Tray	JH185A
HPE 5930 4-slot Front (Port Side) to Back (Power Side) Airflow Fan Tray	JH186A

Switch Bundles

Select HPE FlexFabric Switch 5940 models are available with power supplies and fan trays included.

HPE FlexFabric 5940 2-slot 2QSFP+ Front-to-Back AC Bundle Includes (1) HPE FlexFabric 5940 2-slot Switch (JH397A), (2) power supplies (JC680A), (2) front-to-back fan trays (JG552A)	JQ041A
HPE FlexFabric 5940 2-slot 2QSFP+ Back-to-Front AC Bundle Includes (1) HPE FlexFabric 5940 2-slot Switch (JH397A), (2) power supplies (JC680A), (2) back-to-front fan trays (JG553A)	JQ042A
HPE FlexFabric 5940 4-slot Front-to-Back AC Bundle Includes (1) HPE FlexFabric 5940 4-slot Switch (JH398A), (4) power supplies (JC680A), (2) front-to-back fan trays (JH186A)	JQ043A

Accessories

HPE FlexFabric 5940 4-slot Back-to-Front AC Bundle

JQ044A

Includes (1) HPE FlexFabric 5940 4-slot Switch (JH398A), (4) power supplies (JC680A), (2) back-to-front fan trays (JH185A)

Summary of Changes

Date	Version History	Action	Description of Change
07-May-2018	Version 11	Added	SKU added: JH419A
02-Apr-2018	Version 10	Changed	Changes made on Configuration section
04-Dec-2017	Version 9	Added	SKU added: JH957A, JQ041A, JQ042A, JQ043A, JQ044A
05-Jun-2017	Version 8	Added	SKU added: JH673A
03-Apr-2017	Version 7	Changed	Changes made on Configuration section
06-Mar-2017	Version 6	Added	SKUs added: JL437A; JL438A; JL439A
		Changed	Configuration Section updated
06-Feb-2017	Version 5	Changed	Accessories updated
09-Jan-2017	Version 4	Added	Models added: JH684A, JH685A, JH686A, JH691A, JH692A
			SKUs added: JH689A, JH690A, JH409A, JH677A, JH678A, JH679A, JH680A, JH681A, JH682A, JH683A, JH693A, JH694A, JH695A, JH696A, JH697A, JH698A, JH699A, JH700A, JH701A, JH702A, JH703A
07-Nov-2016	Version 3	Added	Models added: JH397A; JH398A
		Changed	Edits made on Configuration and Accessories sections
05-Sep-2016	Version 2	Added	SKUs added: JL273A, JL282A, JL283A, JL284A
		Changed	Overview and Technical Specifications updated
01-Aug-2016	Version 1	Creation	Document creation

Summary of Changes



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