

Overview

HPE FlexFabric 5800 Switch Series



HPE FlexFabric 5800-24G-PoE+ Switch



HPE FlexFabric 5800-24G Switch



HPE FlexFabric 5820X 24XG SFP+ Switch



HPE FlexFabric 5800 48G PoE+ 1-slot Switch

Overview



HPE FlexFabric 5800 48G 1-slot Switch



HPE FlexFabric 5800 48G POE+ 2-slot Switch



HPE FlexFabric 5800AF 48G Switch

Models

HPE FlexFabric 5800 24G PoE+ Switch	JC099B
HPE FlexFabric 5800 24G Switch	JC100B
HPE FlexFabric 5820X 24XG SFP+ Switch	JC103B
HPE FlexFabric 5800 48G PoE+ 1-slot Switch	JC104B
HPE FlexFabric 5800 48G 1-slot Switch	JC105B
HPE FlexFabric 5800 48G POE+ 2-slot Switch	JC101B
HPE FlexFabric 5800AF 48G Switch	JG225B

Key features

Overview

- For enterprise edge, distribution, data center
- Cut-through design with low latency
- Support for up to 84 ports
- OAA module for flexible deployment
- Redundant, hot-swappable power supplies, fans

Product overview

The HPE FlexFabric 5800 Switch Series offer an unmatched combination of Gigabit and 10-Gigabit Ethernet port density, high-availability architecture, and full Layer 2 and Layer 3 dual-stack IPv4 and IPv6 capabilities. In addition to wire-speed line-rate performance on all ports, the switches include patented Intelligent Resilient Fabric (IRF) technology and Rapid Ring Protection Protocol (RRPP), which allow local or geographically distributed HPE 5800 switches to be interconnected for higher resiliency and performance. Available in PoE and non-PoE models as well as 1 RU and 2 RU form factor configurations, HPE FlexFabric 5800 switches are built on open standards and include an open application architecture (OAA) module slot that enables flexible deployment options for new services. These versatile switches are ideal for use in the network core of buildings or departments, or as high-performance switches in the convergence layer or network edge of enterprise campus networks

Features and benefits

Quality of Service (QoS)

- **Powerful QoS feature**
creates traffic classes based on access control lists (ACLs), IEEE 802.1p precedence, IP, and DSCP or Type of Service (ToS) precedence; supports filter, redirect, mirror, or remark; supports the following congestion actions: strict priority (SP) queuing, weighted round robin (WRR), weighted fair queuing (WFQ), weighted random early discard (WRED), weighted deficit round robin (WDRR), and SP+WDRR
- **Integrated network services**
with support for open application architecture (OAA) modules, extends and integrates application capability into the network
- **Ring Resiliency Protection Protocol (RRPP)**
provides fast recovery for ring Ethernet-based topology; provides consistent application performance for applications such as VoIP

Management

- **Remote configuration and management**
is available through a secure Web browser or a command-line interface (CLI)
- **IEEE 802.1AB LLDP discovery**
advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications
- **USB support:**
 - **File copy**
allows users to copy switch files to and from a USB flash drive
- **DHCP options:**
 - DNS Relay and SMTP Redirection
 - DHCP: Server (RFC 2131), Client, and Option-82 Relay (RFC 3046)
- **sFlow**
provides scalable, ASIC-based network monitoring and accounting; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes
- **SNMPv1, v2c, and v3**
facilitate centralized discovery, monitoring, and secure management of networking devices
- **Network Time Protocol (NTP)**
synchronizes timekeeping among distributed time servers and clients; keeps consistent timekeeping among all clock-dependent devices within the network so that the devices can provide diverse applications based on the consistent time

Overview

Connectivity

- **High-density port connectivity**
supports up to 84 1-Gigabit ports per unit (612 per stack)
- **Auto-MDIX**
automatically adjusts for straight-through or crossover cables on all 10/100 ports
- **Jumbo frames**
on Gigabit Ethernet and 10-Gigabit ports, jumbo frames of 9k size allow high-performance remote backup and disaster-recovery services
- **IEEE 802.3af Power over Ethernet (PoE)**
provides up to 15.4 W per port to IEEE 802.3af-compliant PoE-powered devices such as IP phones, wireless access points, and security cameras
- **IEEE 802.3at Power over Ethernet (PoE+) support**
simplifies deployment and dramatically reduces installation costs by helping to eliminate the time and cost involved in supplying local power at each access point location
- **IPv6 native support**
 - **IPv6 host**
enables switches to be managed and deployed at the IPv6 network's edge
 - **Dual stack (IPv4/IPv6)**
transitions from IPv4 to IPv6, supporting connectivity for both protocols
 - **MLD snooping**
forwards IPv6 multicast traffic to the appropriate interface
 - **IPv6 ACL/QoS**
supports ACL and QoS for IPv6 network traffic, preventing traffic flooding
 - **IPv6 routing**
supports IPv6 static routes and IPv6 versions of RIP, OSPF, IS-IS, and BGP routing protocols

Performance

- **Hardware-based wire-speed access control lists (ACLs)**
feature-rich ACL implementation (TCAM-based) helps provide high levels of security and ease of administration without impacting network performance
- **Unique versatile architecture**
supports the best of both fixed-port and modular configurations

Resiliency and high availability

- **Data center-optimized design**
the HPE 5800AF-48G Switch (JG225B) supports front-to-back/back-to-front airflow for hot/cold aisles, rear rack mounts, and redundant hot-swappable AC or DC power and fans

Manageability

- **Full-featured console**
provides complete control of the switch with a familiar command-line interface (CLI)
- **Web interface**
allows configuration of the switch from any Web browser on the network
- **RMON and sFlow**
provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **Multiple configuration files**
allow multiple configuration files to be stored to a flash image
- **Troubleshooting**
 - **Ingress and egress port monitoring**
enable network problem solving

Overview

- **Traceroute and ping**
enable testing of network connectivity
- **Virtual cable tests**
provide visibility to cable problems

Layer 2 switching

- **GARP VLAN Registration Protocol:**
allows automatic learning and dynamic assignment of VLANs
- **32K MAC addresses**
provide access to many Layer 2 devices
- **4,094 port-based VLANs**
provide security between workgroups
- **IEEE 802.1ad QinQ and Selective QinQ**
increase the scalability of an Ethernet network by providing a hierarchical structure; connect multiple LANs on a high-speed campus or metro network
- **Gigabit Ethernet port aggregation**
allows grouping of ports to increase overall data throughput to a remote device
- **10 GbE port aggregation**
allows grouping of ports to increase overall data throughput to a remote device
- **Spanning Tree/MSTP, RSTP, and STP Root Guard**
prevent network loops
- **IPFIX/sFlow**
allows traffic sampling
- **Spanning Tree Protocols (STP, MSTP, and RSTP) and STP root guard**
helps prevent network loops; up to 32 MSTP instances available

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

Layer 3 routing

- **Layer 3 IPv4 routing**
provides routing of IPv4 at media speed; supports static routes, RIP and RIPv2, OSPF, IS-IS, and BGP
- **RIP and RIPv2 support**
provides complete support of RIP for both IPv4 and IPv6
- **OSPF and OSPFv3 support**
provides complete support of OSPF for both IPv4 and IPv6
- **IS-IS and IS-ISv6 support**
provides complete support of IS-IS for both IPv4 and IPv6
- **Layer 3 IPv6 routing**
provides routing of IPv6 at media speed; supports static routes, RIPv2, OSPFv3, IS-ISv6, and BGP4+
- **Bidirectional Forwarding Detection (BFD)**
enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP, IS-IS, VRRP, MPLS, and IRF
- **Virtual Router Redundancy Protocol (VRRP) and VRRP Extended**
allow quick failover of router ports

Overview

- **Policy-based routing**
makes routing decisions based on policies set by the network administrator
- **IGMPv1, v2, and v3**
allow individual hosts to be registered on a particular VLAN
- **PIM-SSM, PIM-DM, and PIM-SM** (for IPv4 and IPv6)
support IP Multicast address management and inhibition of DoS attacks
- **Equal-Cost Multipath** (ECMP)
enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth
- **NEW MPLS support**
provides extended support of MPLS, including MPLS VPNs and MPLS Traffic Engineering (MPLS TE)
- **NEW VPLS support**
provides extended support of VPLS for data center to data center communication at Layer 2; provides support of hierarchical VPLS for scalability

Security

- **Unicast Reverse Path Forwarding** (URPF)
allows normal packets to be forwarded correctly, but discards the attaching packet due to lack of reverse path route or incorrect inbound interface; prevents source spoofing and distributed attacks; supports distributed UFPF
- **Defense-in-depth security**
provides integrated and distributed security enforcement that can be managed from a central location, such as the HPE Intelligent Management Center (IMC)
- **Advanced processor queuing mechanism**
helps prevent denial-of-service (DoS) attacks, while DHCP snooping helps ensure that devices can only receive an IP address from a legitimate DHCP server on the network
- **IEEE 802.1X-based dynamic delivery of QoS, ACLs, and VLANs**
allows complete control over user network access
- **Guest VLAN**
similar to IEEE 802.1X, it provides a browser-based environment to authenticated clients
- **Port isolation**
secures and adds privacy, and prevents malicious attackers from obtaining user information
- **MAC-based authentication**
allows or denies access to the switch based on client MAC address
- **HTTPS management**
provides secure Web management
- **Multi-Customer Edge (MCE)-Multicast Virtual Routing and Forwarding (MVRF)**
provide MPLS Edge router support
- **Public Key Infrastructure** (PKI)
is used to control access
- **RADIUS/HWTACACS**
eases switch management security administration by using a password authentication server
- **Secure Shell** (SSHv2)
encrypts all transmitted data for secure, remote CLI access over IP networks
- **IP Source Guard**
helps prevent IP spoofing attacks; filters packets on a per-port basis, which prevents illegal packets from being forwarded
- **Access control lists** (ACLs)
helps provide high levels of security and ease of administration; 6k ingress entries and 1k egress entries (IPv4 and IPv6)

Convergence

- **Voice VLAN**
automatically assigns VLAN and priority for IP phones, simplifying network configuration and maintenance
- **Internet Group Management Protocol** (IGMP)
is used by IP hosts to establish and maintain multicast groups; supports v1, v2, and v3; utilizes Any-Source Multicast

Overview

- (ASM) or Source-Specific Multicast (SSM) to manage IPv4 multicast networks
- **Protocol Independent Multicast (PIM)**
defines modes of Internet multicasting to allow one-to-many and many-to-many transmission of information; supports PIM Dense Mode (DM), Sparse Mode (SM), and Source-Specific Multicast(SSM)
- **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

Monitor and diagnostics

- **Port mirroring**
enables traffic on a port to be simultaneously sent to a network analyzer for monitoring
- **OAM (IEEE 802.3ah)**
operational, administration and maintenance (OAM) management capabilities detects data link layer problems that occurred in the "last mile"; monitors the status of the link between the two devices
- **CFD (IEEE 802.1ag)**
connectivity fault detection (CFD) provides a Layer 2 link OAM mechanism used for link connectivity detection and fault locating

Additional information

- **HPE Intelligent Resilient Fabric (IRF)**
 - Creates virtual resilient switching fabrics, where two or more switches perform as a single Layer 2 switch and Layer 3 router
 - Switches do not have to be co-located and can be part of a disaster-recovery system
 - Servers or switches can be attached using standard LACP for automatic load balancing and high availability
 - Simplifies network operation by eliminating the complexity of Spanning Tree Protocol, ECMP, or VRRP
- **OAA modules**
support wireless network management and high-performance security applications; leverage network infrastructure investment
- **Green IT and power**
use the latest advances in silicon development, shut off unused ports, and use variable-speed fans to improve energy efficiency
- **Higher scalability with IRF**
simplifies the architecture of server access networks and reduces cost and complexity; up to nine 5800 Switches can be combined to deliver unmatched scalability of virtualized access layer switches and flatter, two-tier FlexFabric networks

Warranty and support

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

Configuration

Build To Order:

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

Standard Switch Chassis

HPE FlexFabric 5800 24G Switch	JC100B
<ul style="list-style-type: none"> • 24 RJ-45 autosensing 10/100/1000 ports • 1 extended module slot • 4 fixed 1000/10000 SFP+ ports • min=0 \ max=4 SFP+ Transceivers • Power Supply included • 1U - Height 	See Configuration NOTE:1, 3, 7
PDU Cable NA/MEX/TW/JP	JC100B#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JC100B#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JC100B#B2E
<ul style="list-style-type: none"> • NEMA L6-20P Cord (NA/MEX/JP/TW) 	
HPE FlexFabric 5800 24G PoE+ Switch	JC099B
<ul style="list-style-type: none"> • 24 RJ-45 autosensing 10/100/1000 ports • 1 extended module slot • 4 fixed 1000/10000 SFP+ ports • min=0 \ max=4 SFP+ Transceivers • Power Supply included • 1U - Height 	See Configuration NOTE:1, 3, 7
PDU Cable NA/MEX/TW/JP	JC099B#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JC099B#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JC099B#B2E
<ul style="list-style-type: none"> • NEMA L6-20P Cord (NA/MEX/JP/TW) 	
HPE FlexFabric 5820X 24XG SFP+ Switch	JC103B

Configuration

<ul style="list-style-type: none"> • 24 100/1000 SFP ports • min=0 \ max=24 SFP Transceivers • 1 extended module slot • 4 fixed 1000/10000 SFP+ ports • min=0 \ max=4 SFP+ Transceivers • Must select min 1 Power Supply • 1U - Height 	See Configuration NOTE:1, 4
HPE FlexFabric 5800 48G 1-slot Switch <ul style="list-style-type: none"> • 48 RJ-45 autosensing 10/100/1000 ports • 1 extended module slot • 4 fixed 1000/10000 SFP+ ports • min=0 \ max=4 SFP+ Transceivers • Power Supply included • 1U- Height 	JC105B See Configuration NOTE:1, 3, 7
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	JC105B#B2B
PDU Cable ROW <ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	JC105B#B2C
High Volt Switch to Wall Power Cord <ul style="list-style-type: none"> • NEMA L6-20P Cord (NA/MEX/JP/TW) 	JC105B#B2E
HPE FlexFabric 5800AF 48G Switch <ul style="list-style-type: none"> • 48 RJ-45 autosensing 10/100/1000 ports • 6 fixed 1000/10000 SFP+ ports • min=0 \ max=6 SFP+ Transceivers • Must select min 1 Power Supply • Must select min 2 Fan Trays • 1U- Height 	JG225B See Configuration NOTE:1
HPE FlexFabric 5800 48G PoE+ 1-slot Switch <ul style="list-style-type: none"> • 48 RJ-45 autosensing 10/100/1000 ports • 1 extended module slot • 4 fixed 1000/10000 SFP+ ports • min=0 \ max=4 SFP+ Transceivers • Power Supply included • 1U - Height 	JC104B See Configuration NOTE:1, 3, 7
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	JC104B#B2B

Configuration

PDU Cable ROW	JC104B#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JC104B#B2E
<ul style="list-style-type: none"> NEMA L6-20P Cord (NA/MEX/JP/TW) 	
HPE FlexFabric 5800 48G POE+ 2-slot Switch	JC101B
<ul style="list-style-type: none"> 48 RJ-45 autosensing 10/100/1000 ports 2 extended module slot 4 fixed 1000 SFP ports min=0 \ max=4 SFP Transceivers Must select min 1 Power Supply 2U - Height 	See Configuration NOTE:4

Configuration Rules

Note 1 The following Transceivers install into this switch:

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 X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
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 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

Note 3 Localization required on orders without #B2B, #B2C or #B2E options.

Note 4 The following Transceivers install into this Switch:

HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE X110 100M SFP LC LH40 Transceiver	JD090A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
HPE X125 1G SFP LC LH70 Transceiver	JD063B

Configuration

Note 7 #B2E is Offered only NA, Mexico, Taiwan, and Japan.

Box Level Integration CTO Models

CTO Solution Sku

HPE FlexFabric 58xx Configure-to-order Switch Solution JG478A

- SSP trigger sku

CTO Base Sku

<p>HPE FlexFabric 5800 24G Switch</p> <ul style="list-style-type: none"> • 24 RJ-45 autosensing 10/100/1000 ports • 1 extended module slot • 4 fixed 1000/10000 SFP+ ports • min=0 \ max=4 SFP+ Transceivers • Power Supply included • 1U - Height 	<p>JC100B</p> <p>See Configuration NOTE:1, 3, 9, 10, 11</p>
<p>PDU Cable NA/MEX/TW/JP</p> <ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	<p>JC100B#B2B</p>
<p>PDU Cable ROW</p> <ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	<p>JC100B#B2C</p>
<p>High Volt Switch to Wall Power Cord</p> <ul style="list-style-type: none"> • NEMA L6-20P Cord (NA/MEX/JP/TW) 	<p>JC100B#B2E</p>
<p>HPE FlexFabric 5800 24G PoE+ Switch</p> <ul style="list-style-type: none"> • 24 RJ-45 autosensing 10/100/1000 ports • 1 extended module slot • 4 fixed 1000/10000 SFP+ ports • min=0 \ max=4 SFP+ Transceivers • Power Supply included • 1U - Height 	<p>JC099B</p> <p>See Configuration NOTE:1, 3, 9, 10, 11</p>
<p>PDU Cable NA/MEX/TW/JP</p> <ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	<p>JC099B#B2B</p>
<p>PDU Cable ROW</p> <ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	<p>JC099B#B2C</p>

Configuration

High Volt Switch to Wall Power Cord	JC099B#B2E
<ul style="list-style-type: none"> NEMA L6-20P Cord (NA/MEX/JP/TW) 	
HPE FlexFabric 5820X 24XG SFP+ Switch	JC103B
<ul style="list-style-type: none"> 24 100/1000 SFP ports min=0 \ max=24 SFP Transceivers 1 extended module slot 4 fixed 1000/10000 SFP+ ports min=0 \ max=4 SFP+ Transceivers Must select min 1 Power Supply 1U - Height 	See Configuration NOTE:1, 4, 5, 10
HPE FlexFabric 5800 48G 1-slot Switch	JC105B
<ul style="list-style-type: none"> 48 RJ-45 autosensing 10/100/1000 ports 1 extended module slot 4 fixed 1000/10000 SFP+ ports min=0 \ max=4 SFP+ Transceivers Power Supply included 1U- Height 	See Configuration NOTE:1, 3, 9, 10, 11
PDU Cable NA/MEX/TW/JP	JC105B#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JC105B#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JC105B#B2E
<ul style="list-style-type: none"> NEMA L6-20P Cord (NA/MEX/JP/TW) 	
HPE FlexFabric 5800AF 48G Switch	JG225B
<ul style="list-style-type: none"> 48 RJ-45 autosensing 10/100/1000 ports 6 fixed 1000/10000 SFP+ ports (min=0 \ max=6 SFP+ Transceivers) Must select min 1 Power Supply Must select min 2 Fan Trays 1U - Height 	See Configuration NOTE:1, 8, 10
HPE FlexFabric 5800 48G PoE+ 1-slot Switch	JC104B
<ul style="list-style-type: none"> 48 RJ-45 autosensing 10/100/1000 ports 1 extended module slot 4 fixed 1000/10000 SFP+ ports min=0 \ max=4 SFP+ Transceivers Power Supply included 1U - Height 	See Configuration NOTE:1, 3, 9, 10, 11

Configuration

PDU Cable NA/MEX/TW/JP	JC104B#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
C15 PDU ROW	JC104B#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JC104B#B2E
<ul style="list-style-type: none"> NEMA L6-20P Cord (NA/MEX/JP/TW) 	
HPE FlexFabric 5800 48G POE+ 2-slot Switch	JC101B
<ul style="list-style-type: none"> 48 RJ-45 autosensing 10/100/1000 ports 2 extended module slot 4 fixed 1000 SFP ports min=0 \ max=4 SFP Transceivers Must select min 1 Power Supply 2U - Height 	See Configuration NOTE:4, 5,10

Configuration Rules

Note 1 The following 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 LRM Transceiver	JD093B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
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 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

Note 3 Localization required on orders without #B2B, #B2C or #B2E options.

Note 4 The following Transceivers install into this Switch: (Use #0D1 if switch is CTO) If Applicable -

HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
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 X110 100M SFP LC LH40 Transceiver	JD090A
HPE X110 100M SFP LC LH80 Transceiver	JD091A

Configuration

HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
HPE X125 1G SFP LC LH70 Transceiver	JD063B

Note 5 If this Switch is selected at least one of these Power Supply with #0D1 is required:

HPE 5800 300W AC Power Supply	JC087A
HPE 5800 750W AC Power Supply	JC089A

Note 8 If this Switch is selected at least one of these Power Supply with #0D1 is required:

HPE 58x0AF 650W AC Power Supply	JC680A
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Note 9 B2E is Offered only in . NA, Mexico, Taiwan, and Japan.

Note 10 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 JG478A - HPE FlexFabric 58xx Configure-to-order Switch Solution. (Min 1/Max 1 Switch per SSP)

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

Rack Level Integration CTO Models

Standard Switch Chassis

HPE FlexFabric 5800 24G Switch	JC100B
<ul style="list-style-type: none"> 24 RJ-45 autosensing 10/100/1000 ports 1 extended module slot 4 fixed 1000/10000 SFP+ ports min=0 \ max=4 SFP+ Transceivers Power Supply included 1U - Height 	See Configuration NOTE:1, 3, 10
PDU Cable NA/MEX/TW/JP	JC100B#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JC100B#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
HPE FlexFabric 5800 24G PoE+ Switch	JC099B
<ul style="list-style-type: none"> 24 RJ-45 autosensing 10/100/1000 ports 1 extended module slot 4 fixed 1000/10000 SFP+ ports min=0 \ max=4 SFP+ Transceivers Power Supply included 	See Configuration NOTE:1, 3, 10

Configuration

<ul style="list-style-type: none"> • 1U - Height 	
PDU Cable NA/MEX/TW/JP	JC099B#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JC099B#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
HPE FlexFabric 5820X 24XG SFP+ Switch	JC103B
<ul style="list-style-type: none"> • 24 100/1000 SFP ports • min=0 \ max=24 SFP Transceivers • 1 extended module slot • 4 fixed 1000/10000 SFP+ ports • min=0 \ max=4 SFP+ Transceivers • Must select min 1 Power Supply • 1U - Height 	See Configuration NOTE:1, 4, 10
HPE FlexFabric 5800 48G 1-slot Switch	JC105B
<ul style="list-style-type: none"> • 48 RJ-45 autosensing 10/100/1000 ports • 1 extended module slot • 4 fixed 1000/10000 SFP+ ports • min=0 \ max=4 SFP+ Transceivers • Power Supply included • 1U- Height 	See Configuration NOTE:1, 3, 10
PDU Cable NA/MEX/TW/JP	JC105B#B2B
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JC105B#B2C
<ul style="list-style-type: none"> • C15 PDU Jumper Cord (ROW) 	
HPE FlexFabric 5800AF 48G Switch	JG225B
<ul style="list-style-type: none"> • 48 RJ-45 autosensing 10/100/1000 ports • 6 fixed 1000/10000 SFP+ ports (min=0 \ max=6 SFP+ Transceivers) • Must select min 1 Power Supply • Must select min 2 Fan Trays • 1U - Height 	See Configuration NOTE:1, 10
HPE FlexFabric 5800 48G PoE+ 1-slot Switch	JC104B
<ul style="list-style-type: none"> • 48 RJ-45 autosensing 10/100/1000 ports • 1 extended module slot • 4 fixed 1000/10000 SFP+ ports • min=0 \ max=4 SFP+ Transceivers 	See Configuration NOTE:1, 3, 10

Configuration

- Power Supply included
- 1U - Height

PDU Cable NA/MEX/TW/JP JC104B#B2B

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

PDU Cable ROW JC104B#B2C

- C15 PDU Jumper Cord (ROW)

HPE FlexFabric 5800 48G POE+ 2-slot Switch JC101B

- 48 RJ-45 autosensing 10/100/1000 ports
- 2 extended module slot
- 4 fixed 1000 SFP ports
- min=0 \ max=4 SFP Transceivers
- Must select min 1 Power Supply
- 2U - Height

See Configuration
NOTE:4, 10

Configuration Rules:

Note 1 The following Transceivers install into this switch:

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 X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
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 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

Note 3 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 4 The following Transceivers install into this Switch:

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

Configuration

HPE X110 100M SFP LC LH40 Transceiver	JD090A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
HPE X125 1G SFP LC LH70 Transceiver	JD063B

Note 10 If HPE CTO Switch Chassis is selected for Rack Level Integration, Then the Switch needs to integrate (with #0D1) to the HPE Rack.

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

Modules

Ethernet Modules

(JC101x, JG242x, Switch Only) System (std 0 // max 2) User Selection (min 0 // max 2) per chassis

(JC100x, JC099x, JC103x, JC105x, JC104x, JG254x, JG255x, JG256x, JG257x, JG258x, Switch Only) System (std 0 // max 1) User Selection (min 0 // max 1) per chassis

HPE 5800 16-port SFP Module

- min=0 \ max=16 SFP Transceivers

JC095A
See Configuration
NOTE:2

HPE 5800 4-port 10GbE SFP+ Module

- min=0 \ max=4 SFP and SFP + Transceivers

JC091A
See Configuration
NOTE:1

HPE 5800 2-port 10GbE SFP+ Module

- min=0 \ max=2 SFP and SFP + Transceivers

JC092B
See Configuration
NOTE:1

HPE 5800 16-port Gig-T Module

- No Transceivers

JC094A

Configuration Rules:

Note 1 The following Transceivers install into this Module: (Use #0D1 if switch is CTO) If Applicable -

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 X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X120 1G SFP LC SX Transceiver	JD118B

Configuration

HPE X120 1G SFP LC LX Transceiver	JD119B
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 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

Note 2 The following Transceivers install into this Module: (Use #0D1 if switch is CTO) If Applicable -

HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
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 X110 100M SFP LC LH40 Transceiver	JD090A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
HPE X125 1G SFP LC LH70 Transceiver	JD063B

Access Control Modules

(JC101x and JG242x Switch Only) System (std 0 // max 1) User Selection (min 0 // max 1) per chassis

HPE 5820 VPN Firewall Module

- No Transceivers

JD255A
See Configuration
NOTE:1

Configuration Rules:

Note 1 This Module install to the following switches only:
JC101x - HPE 5800-48G Switch with 2 Slots

PoE Modules

(JC101x and JG242x Switch Only) System (std 0 // max 1) User Selection (min 0 // max 1) per chassis

HPE 5800 PoE Module

- No Transceivers

JC097B

Transceivers

SFP+ Transceivers

HPE X130 10G SFP+ LC SR Transceiver

JD092B

Configuration

HPE X130 10G SFP+ LC LRM Transceiver	JD093B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C#B01
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C#B01
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C#B01
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C#B01

SFP Transceivers

HPE X110 100M SFP LC LH40 Transceiver	JD090A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
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 X125 1G SFP LC LH70 Transceiver	JD063B

Internal Power Supplies

(JC103x and JG256x Only) System (std 0 // max 2) User Selection (min 1 // max 2) per switch

(JC101x and JG242x Only) System (std 0 // max 2) User Selection (min 1 // max 2) per switch

(JG225B only) System (std 0 // max 2) User Selection (min 1 // max 2) per switch

HPE 5500 150WAC Power Supply	JD362A See Configuration NOTE:1, 2, 3
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> C13 PDU Jumper Cord (NA/MEX/TW/JP) 	JD362A#B2B
PDU Cable ROW <ul style="list-style-type: none"> C13 PDU Jumper Cord (ROW) 	JD362A#B2C
HPE X361 150W 100-240VAC to 12VDC Power Supply <ul style="list-style-type: none"> includes 1 x c13, 910w 	JD362B See Configuration NOTE:1, 2, 3
PDU Cable NA/MEX/TW/JP <ul style="list-style-type: none"> C13 PDU Jumper Cord (NA/MEX/TW/JP) 	JD362B#B2B
PDU Cable ROW	JD362B#B2C

Configuration

<ul style="list-style-type: none"> C13 PDU Jumper Cord (ROW) 	
High Volt Switch to Wall Power Cord	JD362B#B2E
<ul style="list-style-type: none"> HPE 2.3M C13 to NEMA L6-20P Power Cord (J9936A) 	
No Power Cord	JD362B#AC3
<ul style="list-style-type: none"> No Localized Power Cord Selected 	
HPE FlexNetwork 5500 150WDC Power Supply	JD366A See Configuration NOTE:1, 3
HPE X361 150W 48-60VDC to 12VDC Power Supply	JD366B See Configuration NOTE:1, 3
HPE 5800 300W AC Power Supply	JC087A See Configuration NOTE:1, 2, 4
PDU Cable NA/MEX/TW/JP	JC087A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JC087A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
HPE 5800 300W DC Power Supply	JC090A See Configuration NOTE:1, 4
HPE 5800 750W AC Power Supply	JC089A See Configuration NOTE:1, 2, 4
PDU Cable NA/MEX/TW/JP	JC089A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JC089A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
HPE 58x0AF 650W AC Power Supply	JC680A See Configuration NOTE:1, 2, 6
<ul style="list-style-type: none"> includes 1 x c13, 650w 	
PDU Cable NA/MEX/TW/JP	JC680A#B2B

Configuration

<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	JC680A#B2C
PDU Cable ROW	
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
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, 6
PDU Cable NA/MEX/TW/JP	JG900A#B2B
<ul style="list-style-type: none"> C15 PDU Jumper Cord (NA/MEX/TW/JP) 	
PDU Cable ROW	JG900A#B2C
<ul style="list-style-type: none"> C15 PDU Jumper Cord (ROW) 	
High Volt Switch/Router to Wall Power Cord	JG900A#B2E
<ul style="list-style-type: none"> NEMA L6-20P Cord (NA/MEX/JP/TW) 	
HPE A58x0AF Back (Power Side) to Front (Port Side) Airflow 300W DC Power Supply	JG901A
	See Configuration NOTE:1, 6, 7
HPE FlexFabric Switch 650W 48V Hot Plug NEBS-compliant DC Power Supply	JH336A
	See Configuration NOTE:1, 6

Configuration Rules:

Note 1 If 2 power supplies are selected then 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 only supported on JC103x and JG256x Only.

Note 4 This power supply only supported on JC101x and JG242x Only.

Note 6 This power supply only supported on JG225B Only.

Note 7 Watson Only - Add "(NEBS)" after the description on the PS table.

Remarks:

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

Configuration

Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO)

NOTE* Switch JG225B should default selection of Power Supply as JC680A but allow selection of JG900A, JG901A, and JC681A.

Switch Options

Fan Trays

(JG225B only) System (std 0 // max 2) User Selection (min 2 // max 2) per switch

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

JC682A
See Configuration
NOTE:1

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

JC683A
See Configuration
NOTE:1

Configuration Rules:

Note 1 Fan Trays cannot be mixed in the same switch enclosure

Remark: Watson Blue Text:

If there is any empty space below the switch in a rack when using Back to Front Fan Trays, 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.

Fan Options

HPE 5800 2RU Spare Fan Assembly

JC096A
See Configuration
NOTE:1

HPE 5800 1RU Spare Fan Assembly

JC098A
See Configuration
NOTE:2

Configuration Rules:

Note 1 This Spare Fan is only supported on switches JC101B and JG242B.

Note 2 This Spare Fan is only supported on switches JC099B, JC100B, JC103B, JC104B, JC105B, JG254B, JG255B, JG256B, JG257B and JG258B.

Opacity Shield Kit

System (std 0 // max 1) User Selection (min 0 // max 1)

Configuration

HPE 5800 24G/48G PoE Opacity Shield Kit

- Supported on JG254B, JG257B

JG560A
See Configuration
NOTE:1

HPE 58xx 2-slot Switch Opacity Shield Kit

- Supported on JG242B

JG561A
See Configuration
NOTE:1

HPE 5800 24G SFP Opacity Shield Kit

- Supported on JG256B

JG562A
See Configuration
NOTE:1

HPE 5800 24G/48G Opacity Shield Kit

- Supported on JG255B, JG258B

JG563A
See Configuration
NOTE:1

Configuration Rules:

Note 1 If selected with a CTO Switch Solution, Quantity 1 of JG585A#B01 must also be ordered.

Tamper Evidence Labels

System (std 0 // max 1) User Selection (min 0 // max 1)

HPE 12mm x 60mm Tamper Evidence (30) Labels

- Supported on JG254B, JG257B, JG242B, JG256B, JG255B, JG258B

JG585A
See
Configuration
NOTE:1

Configuration Rules:

Note 1 If selected with a CTO Switch Solution, Quantity 1 of JG560A#B01, JG561A#B01, JG562A#B01 or JG563A#B01 must also be ordered.

Remarks Each JG560A, JG561A, JG562A or JG563A would use 1 of JG585A.

License

HPE WX5000 32 Access Point License Upgrade

JD463A
See
Configuration
NOTE:1

Configuration Rules:

Note 1 If this license is selected, Then one of these modules should be selected or be on site:

- HPE 5800 Access Controller Module for 32-64 Access Points
- HPE 5800 Access Controller Module for 64-256 Access Points

JD443A
JD441A

Configuration

External Redundant Power Supplies

HPE RPS 800 Redundant Power Supply

- Height = 1U
- includes 1 x c13

JD183A
See
Configuration
NOTE:2, 4

HPE RPS1600 Redundant Power System

- Height = 1U
- includes 1 x c13, 1600w and Power Supply port

JG136A
See
Configuration
NOTE:2, 3, 5

HPE RPS1600 1600W AC Power Supply

- Installs into JG136A only

JG137A
See
Configuration
NOTE:1, 3

Configuration Rules:

Note 1 If this power supply is selected, The JG136A - HPE RPS1600 Redundant Power System must be on order or onsite.

Note 2 Localization required.

Note 3 Each switch will only support 1 JG136A and 1 JG137A Power supply systems.

Note 4 This power supply only supported on switches JC105B and JC100B.

Note 5 This power supply only supported on switches JC099B, JC101B, JC103B, JC104B.

Options for the HPE RPS 800 and 1600 External RPS Power Supplies

HPE X290 1000 A JD5 2m RPS Cable

JD187A
See
Configuration
NOTE:3

HPE X290 1000 A JD5 NonPoE 2m RPS Cable

JD188A
See
Configuration
NOTE:2

HPE X290 1000 B JD5 2m RPS Cable

JD189A
See
Configuration
NOTE:4

HPE X290 500/800 1m RPS Cable

JD190A
See

Configuration

Configuration

NOTE:1

Configuration Rules:

Note 1 This Cable is only supported on switches JC105B and JC100B when used with the RPS 800 (JD183A)

Note 2 This Cable is only supported on switch JC103B when used with the RPS 1600 (JG136A)

Note 3 This Cable is only supported on switches JC099B, JC101B, JC104B, and when used with the RPS 1600 (JG136A).

Note 4 This Cable is only supported on switches JC101B (Running On Non-PoE mode), JC103B when used with the RPS 1600 (JG136A)

Technical Specifications

HPE FlexFabric 5800 24G PoE+ Switch (JC099B)

Ports	24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 1 extended module slot 4 fixed 1000/10000 SFP+ ports 1 RJ-45 serial console port	
Physical characteristics	Dimensions	17.3(w) x 16.8(d) x 1.71(h) in (43.94 x 42.67 x 4.34 cm) (1U height)
	Weight	17.64 lb (8 kg)
Memory and processor	2048 MB SDRAM; Packet buffer size: 4 MB, 512 MB flash	
Performance	Latency	4.02 μ s (Store and Forward) (64-byte packets)
	Throughput	up to 155 Mpps
	Routing/Switching capacity	208 Gbps
	Routing table size	16000 entries
	MAC address table size	32000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	10% to 90%
	Acoustic	Low-speed fan: 47.5 dB, High-speed fan: 52.4 dB
Electrical characteristics	Maximum heat dissipation	2968 BTU/hr (3131.24 kJ/hr)
	Voltage	100 - 120 / 200 - 240 VAC, rated
	Frequency	50/60 Hz
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 CISPR22 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	
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; Web browser; SNMP Manager; Telnet;	

Technical Specifications

	HTTPS; RMON1; 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 FlexFabric 5800 24G Switch (JC100B)

Ports	24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 1 extended module slot 4 fixed 1000/10000 SFP+ ports 1 RJ-45 serial console port
Physical characteristics	Dimensions 17.32(w) x 14.35(d) x 1.72(h) in (44.0 x 36.45 x 4.36 cm) (1U height) Weight 13.23 lb (6 kg)
Memory and processor	2048 MB SDRAM; Packet buffer size: 4 MB, 512 MB flash
Performance	Latency 4.02 μ s (Store and Forward) (64-byte packets) Throughput up to 155 Mpps Routing/Switching capacity 208 Gbps Routing table size 16000 entries MAC address table size 32000 entries
Environment	Operating temperature 32°F to 113°F (0°C to 45°C) Operating relative humidity 10% to 90% Acoustic Low-speed fan: 42.3 dB, High-speed fan: 52.9 dB
Electrical characteristics	Maximum heat dissipation 358 BTU/hr (377.69 kJ/hr) Voltage 100 - 120 - 240 VAC, rated Frequency 50/60 Hz
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 CISPR22 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
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

Technical Specifications

	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS; RMON1; 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 FlexFabric 5820X 24XG SFP+ Switch (JC103B)

Ports	24 SFP fixed Gigabit Ethernet SFP ports 1 extended module slot 4 fixed 1000/10000 SFP+ ports 1 RJ-45 serial console port	
Power supplies	2 power supply slots 1 minimum power supplies required (ordered separately)	
Physical characteristics	Dimensions	17.32(w) x 16.81(d) x 1.72(h) in (44.0 x 42.7 x 4.36 cm) (1U height)
	Weight	18.74 lb (8.5 kg)
Memory and processor	2048 MB SDRAM; Packet buffer size: 8 MB, 512 MB flash	
Performance	Latency	4.02 μ s (Store and Forward) (64-byte packets)
	Throughput	up to 155 Mpps
	Routing/Switching capacity	208 Gbps
	Routing table size	16000 entries
	MAC address table size	32000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	10% to 90%
	Acoustic	Low-speed fan: 49.6 dB, High-speed fan: 58.1 dB
Electrical characteristics	Maximum heat dissipation	498 BTU/hr (525.39 kJ/hr)
	Voltage	100 - 120 / 200 - 240 VAC, rated
	DC voltage	-48 VDC to -60 VDC
	Frequency	50/60 Hz
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 CISPR22 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	
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

Technical Specifications

	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; Web browser; SNMP Manager; Telnet; HTTPS; RMON1; FTP	
Notes	The customer must order a power supply, as the device does not come with a PSU. At least one JD362A/JD362B or JD366A/JD366B 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 5800 48G PoE+ 1-slot Switch (JC104B)

Ports	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	
	1 extended module slot	
	4 fixed 1000/10000 SFP+ ports	
	1 RJ-45 serial console port	
Physical characteristics	Dimensions	17.32(w) x 16.81(d) x 1.72(h) in (44.0 x 42.7 x 4.36 cm) (1U height)
	Weight	18.74 lb (8.5 kg)
Memory and processor	2048 MB SDRAM; Packet buffer size: 8 MB, 512 MB flash	
Performance	Latency	4.02 μ s (Store and Forward) (64-byte packets)
	Throughput	up to 190 Mpps
	Routing/Switching capacity	256 Gbps
	Routing table size	16000 entries
	MAC address table size	32000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	10% to 90%
	Acoustic	Low-speed fan: 50.5 dB, High-speed fan: 57.9 dB
Electrical characteristics	Maximum heat dissipation	3320 BTU/hr (3502.6 kJ/hr)
	Voltage	100 - 120 / 200 - 240 VAC, rated
	Frequency	50/60 Hz
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 CISPR22 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	
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

Technical Specifications

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; Web browser; SNMP Manager; Telnet; HTTPS; RMON1; 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 FlexFabric 5800 48G 1-slot Switch (JC105B)

Ports	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 1 extended module slot 4 fixed 1000/10000 SFP+ ports 1 RJ-45 serial console port
Physical characteristics	Dimensions 17.32(w) x 14.45(d) x 1.72(h) in (44.0 x 36.7 x 4.36 cm) (1U height) Weight 14.33 lb (6.5 kg)
Memory and processor	2048 MB SDRAM; Packet buffer size: 8 MB, 512 MB flash
Performance	Latency 4.02 μ s (Store and Forward) (64-byte packets) Throughput up to 190 Mpps Routing/Switching capacity 256 Gbps Routing table size 16000 entries MAC address table size 32000 entries
Environment	Operating temperature 32°F to 113°F (0°C to 45°C) Operating relative humidity 10% to 90% Acoustic Low-speed fan: 45.3 dB, High-speed fan: 56.5 dB
Electrical characteristics	Maximum heat dissipation 557 BTU/hr (587.64 kJ/hr) Voltage 100 - 120 / 200 - 240 VAC, rated Frequency 50/60 Hz
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 CISPR22 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
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

Technical Specifications

	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; Web browser; SNMP Manager; Telnet; HTTPS; RMON1; 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 FlexFabric 5800 48G POE+ 2-slot Switch (JC101B)

Ports	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	
	2 extended module slots	
	1 open module slot	
	4 SFP fixed Gigabit Ethernet SFP ports	
	1 RJ-45 serial console port	
Power supplies	2 power supply slots	
	1 minimum power supplies required (ordered separately)	
Physical characteristics	Dimensions	17.32(w) x 18.31(d) x 3.39(h) in (44.0 x 46.5 x 8.61 cm) (2U height)
	Weight	39.7 lb (18.0 kg)
Memory and processor	2048 MB SDRAM; Packet buffer size: 8 MB, 512 MB flash	
Performance	Latency	4.02 μ s (Store and Forward) (64-byte packets)
	Throughput	up to 211 Mpps
	Routing/Switching capacity	284 Gbps
	Routing table size	16000 entries
	MAC address table size	32000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	10% to 90%
	Acoustic	Low-speed fan: 54 dB, High-speed fan: 58.5 dB
Electrical characteristics	Maximum heat dissipation	6278 BTU/hr (6623.29 kJ/hr)
	Voltage	100 - 120 / 200 - 240 VAC, rated
	DC Voltage	300 W DC: -48 VDC to -60 VDC; 750 W DC: -54 VDC to -57 VDC
	Frequency	50/60 Hz
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	

Technical Specifications

Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR22 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	
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; Web browser; SNMP Manager; Telnet; HTTPS; RMON1; FTP	
Notes	Customer must order power supply, as the device does not come with a PSU. At least one JC087A/JC090A/JC089A 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 5800AF 48G Switch (JG225B)

Ports	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	
	6 fixed 1000/10000 SFP+ ports	
	1 RJ-45 serial console port	
	1 RJ-45 out-of-band management port	
	1 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 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 (43.99 x 65.99 x 4.37 cm) (1U height)
	Weight	22.05 lb (10 kg), Fully loaded
Memory and processor	2048 MB flash; Packet buffer size: 8 MB, 512 MB SDRAM	
Performance	Latency	< 5 μs (64-byte packets)
	Throughput	up to 161 Mpps
	Routing/Switching capacity	216 Gbps
	Routing table size	16000 entries

Technical Specifications

	MAC address table size	32000 entries
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	10% to 90%
	Acoustic	Low-speed fan: 60.1 dB, High-speed fan: 69.9 dB
Electrical characteristics	Maximum heat dissipation	426 BTU/hr (449.43 kJ/hr)
	Voltage	100 - 120 / 200 - 240 VAC, rated
	DC Voltage	650W DC: -36 VDC to -72 VDC
	Frequency	50/60 Hz
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 CISPR22 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	
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; Web browser; SNMP Manager; Telnet; HTTPS; RMON1; FTP	
Notes	The customer must order a power supply, as the device does not come with a PSU. 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.	
Standards and protocols (applies to all products in series)	General protocols	RFC 4022 MIB for TCP
	IEEE 802.1ag Service Layer OAM	RFC 4251 SSHv6 Architecture
	IEEE 802.1D MAC Bridges	RFC 4252 SSHv6 Authentication
	IEEE 802.1p Priority	RFC 4253 SSHv6 Transport Layer
	IEEE 802.1Q VLANs	RFC 4254 SSHv6 Connection
	IEEE 802.1s (MSTP)	RFC 4293 MIB for IP
	IEEE 802.1v VLAN classification by Protocol and Port	RFC 4419 Key Exchange for SSH
	IEEE 802.1w Rapid Reconfiguration of Spanning Tree	RFC 4443 ICMPv6
	IEEE 802.1X PAE	RFC 4541 IGMP & MLD Snooping Switch
	IEEE 802.3ad Link Aggregation Control Protocol (LACP)	RFC 4861 IPv6 Neighbor Discovery
		RFC 4862 IPv6 Stateless Address Auto-configuration

Technical Specifications

IEEE 802.3ae 10-Gigabit Ethernet
 IEEE 802.3af Power over Ethernet
 IEEE 802.3at
 IEEE 802.3x Flow Control
 RFC 768 UDP
 RFC 792 ICMP
 RFC 793 TCP
 RFC 826 ARP
 RFC 854 TELNET
 RFC 925 Multi-LAN Address Resolution
 RFC 951 BOOTP
 RFC 1058 RIPv1
 RFC 1350 TFTP Protocol (revision 2)
 RFC 1519 CIDR
 RFC 1542 BOOTP Extensions
 RFC 1812 IPv4 Routing
 RFC 2131 DHCP
 RFC 2236 IGMP Snooping
 RFC 2370 OSPF Opaque LSA Option
 RFC 2385 TCP MD5 Authentication for BGPv4
 RFC 2453 RIPv2
 RFC 2475 Architecture for Differentiated Services
 RFC 2597 Assured Forwarding PHB Group
 RFC 3046 DHCP Relay Agent Information Option
 RFC 3209 RSVP-TE Extensions to RSVP for LSP
 Tunnels
 RFC 3576 Ext to RADIUS (CoA only)
 RFC 3584 Coexistence between Version 1 and
 Version 2 of the Internet-standard Network
 Management Framework
 RFC 3623 Graceful OSPF Restart
 RFC 3768 VRRP
 RFC 4090 Fast Reroute Extensions to RSVP-TE
 for LSP Tunnels
 RFC 4291 IP Version 6 Addressing Architecture
 RFC 4675 RADIUS VLAN & Priority
 RFC 4762 Virtual Private LAN Service (VPLS)
 Using Label Distribution Protocol (LDP) Signaling
 802.1r - GARP Proprietary Attribute Registration
 Protocol (GPRP)

IP multicast

RFC 2934 Protocol Independent Multicast MIB for
 IPv4
 RFC 3376 IGMPv3 (host joins only)
 RFC 3618 Multicast Source Discovery Protocol
 (MSDP)
 RFC 3973 Draft 2 PIM Dense Mode
 RFC 4601 PIM Sparse Mode

IPv6

RFC 2080 RIPng for IPv6
 RFC 2460 IPv6 Specification
 RFC 2710 Multicast Listener Discovery (MLD) for
 IPv6
 RFC 2740 OSPFv3 for IPv6

MIBs

IEEE 8021-PAE-MIB
 IEEE 8023-LAG-MIB
 RFC 1213 MIB II
 RFC 1493 Bridge MIB
 RFC 1657 BGP-4 MIB
 RFC 1724 RIPv2 MIB
 RFC 1850 OSPFv2 MIB
 RFC 2011 SNMPv2 MIB for IP
 RFC 2013 SNMPv2 MIB for UDP
 RFC 2233 Interface MIB
 RFC 2273 SNMP-NOTIFICATION-MIB
 RFC 2452 IPV6-TCP-MIB
 RFC 2454 IPV6-UDP-MIB
 RFC 2465 IPv6 MIB
 RFC 2466 ICMPv6 MIB
 RFC 2571 SNMP Framework MIB
 RFC 2572 SNMP-MPD MIB
 RFC 2573 SNMP-Notification MIB
 RFC 2618 RADIUS Client MIB
 RFC 2620 RADIUS Accounting MIB
 RFC 2665 Ethernet-Like-MIB
 RFC 2674 802.1p and IEEE 802.1Q Bridge MIB
 RFC 2688 MAU-MIB
 RFC 2787 VRRP MIB
 RFC 2819 RMON MIB
 RFC 2925 Ping MIB
 RFC 3414 SNMP-User based-SM MIB
 RFC 3415 SNMP-View based-ACM MIB
 RFC 3418 MIB for SNMPv3
 RFC 3621 Power Ethernet MIB
 RFC 3826 AES for SNMP's USM MIB
 RFC 4133 Entity MIB (Version 3)
 LLDP-EXT-DOT1-MIB
 LLDP-EXT-DOT3-MIB
 LLDP-MIB

Network management

IEEE 802.1AB Link Layer Discovery Protocol
 (LLDP)
 RFC 2819 Four groups of RMON: 1 (statistics), 2
 (history), 3 (alarm) and 9 (events)
 RFC 3176 sFlow
 ANSI/TIA-1057 LLDP Media Endpoint Discovery
 (LLDP-MED)
 SNMPv1/v2c/v3

OSPF

RFC 2328 OSPFv2
 RFC 3101 OSPF NSSA

Security

IEEE 802.1X Port Based Network Access Control
 RFC 1492 TACACS+
 RFC 2865 RADIUS (client only)
 RFC 2866 RADIUS Accounting

Technical Specifications

RFC 2925 Remote Operations MIB (Ping only)
RFC 3019 MLDv1 MIB
RFC 3162 RADIUS and IPv6
RFC 3315 DHCPv6 (client and relay)
RFC 3315 DHCPv6 (client only)
RFC 3810 MLDv2 (host joins only)

Access Control Lists (ACLs)
Secure Sockets Layer (SSL)
SSHv2 Secure Shell

Accessories

HPE FlexFabric 5800 Switch Series accessories

Transceivers

HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B
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 X130 10G SFP+ LC ER 40km Transceiver	JG234A
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

Cables

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

Power Supply

HPE RPS 800 Redundant Power Supply	JD183A
HPE RPS1600 Redundant Power System	JG136A
HPE RPS1600 1600W AC Power Supply	JG137A

HPE FlexFabric 5800 24G PoE+ Switch (JC099B)

HPE 5800 4-port 10GbE SFP+ Module	JC091A
HPE 5800 2-port 10GbE SFP+ Module	JC092B
HPE 5800 16-port Gig-T Module	JC094A
HPE 5800 16-port SFP Module	JC095A
HPE 5800 1RU Spare Fan Assembly	JC098A

HPE FlexFabric 5800 24G Switch (JC100B)

HPE 5800 4-port 10GbE SFP+ Module	JC091A
HPE 5800 2-port 10GbE SFP+ Module	JC092B
HPE 5800 16-port Gig-T Module	JC094A

Accessories

HPE 5800 16-port SFP Module	JC095A
HPE 5800 1RU Spare Fan Assembly	JC098A

HPE FlexFabric 5800 48G POE+ 2-slot Switch (JC101B)

HPE 5800 4-port 10GbE SFP+ Module	JC091A
HPE 5800 2-port 10GbE SFP+ Module	JC092B
HPE 5800 16-port Gig-T Module	JC094A
HPE 5800 16-port SFP Module	JC095A
HPE 5800 300W AC Power Supply	JC087A
HPE 5800 750W AC Power Supply	JC089A
HPE 5800 300W DC Power Supply	JC090A
HPE 5800 PoE Module	JC097B
HPE 5800 2RU Spare Fan Assembly	JC096A

HPE FlexFabric 5820X 24XG SFP+ Switch (JC103B)

HPE 5800 4-port 10GbE SFP+ Module	JC091A
HPE 5800 2-port 10GbE SFP+ Module	JC092B
HPE 5800 16-port Gig-T Module	JC094A
HPE 5800 16-port SFP Module	JC095A
HPE FlexNetwork 5500 150WDC Power Supply	JD366A
HPE X361 150W 100-240VAC to 12VDC Power Supply	JD362B
HPE X361 150W 48-60VDC to 12VDC Power Supply	JD366B
HPE 5800 1RU Spare Fan Assembly	JC098A

HPE FlexFabric 5800 48G PoE+ 1-slot Switch (JC104B)

HPE 5800 4-port 10GbE SFP+ Module	JC091A
HPE 5800 2-port 10GbE SFP+ Module	JC092B
HPE 5800 16-port Gig-T Module	JC094A
HPE 5800 16-port SFP Module	JC095A
HPE 5800 1RU Spare Fan Assembly	JC098A

HPE FlexFabric 5800 48G 1-slot Switch (JC105B)

HPE 5800 4-port 10GbE SFP+ Module	JC091A
HPE 5800 2-port 10GbE SFP+ Module	JC092B
HPE 5800 16-port Gig-T Module	JC094A
HPE 5800 16-port SFP Module	JC095A
HPE 5800 1RU Spare Fan Assembly	JC098A

HPE FlexFabric 5800AF 48G Switch (JG225B)

HPE 58x0AF 650W AC Power Supply	JC680A
HPE 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

Accessory Product Details

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

HPE X125 1G SFP LC LH40 1310nm Transceiver (JD061A) A small form-factor pluggable SFP Gigabit LH40 transceiver that provides a full duplex Gigabit solution up to 40km on a single-mode fiber.	Ports	1 LC 1000Base-LH port (no IEEE standard exists for 1550 nm optics)
	Connectivity	Connector type LC Wavelength 1310 nm
	Physical characteristics	Dimensions 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) Full configuration weight 0.04 lb. (0.02 kg)
	Electrical characteristics	Power consumption typical 0.8 W Power consumption maximum 1.0 W
	Cabling	Cable type: Single-mode fiber optic, complying with ITU-T G.652; Maximum distance: <ul style="list-style-type: none">• 40km distance
	Services	Fiber type Single Mode 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 X120 1G SFP LC LH40 1550nm Transceiver (JD062A) A small form-factor pluggable (SFP) Gigabit LH40 transceiver that provides a full-duplex Gigabit solution up to 40 km on a single mode fiber.	Ports	1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)
	Connectivity	Connector type LC Wavelength 1550 nm
	Physical characteristics	Dimensions 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) Full configuration weight 0.04 lb. (0.02 kg)
	Electrical characteristics	Power consumption typical 0.8 W Power consumption maximum 1.0 W
	Cabling	Cable type: Single-mode fiber optic, complying with ITU-T G.652; Maximum distance: <ul style="list-style-type: none">• 40km distance
	Services	Fiber type Single Mode 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 X125 1G SFP LC	Ports	1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)

Accessory Product Details

LH70 Transceiver (JD063B)	Connectivity	Connector type	LC
		Wavelength	1550 nm
A small form-factor pluggable (SFP) Gigabit LH70 transceiver that provides a full-duplex Gigabit solution up to 70km on a single-mode fiber.	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)
		Full configuration weight	0.04 lb. (0.02 kg)
	Electrical characteristics	Power consumption typical	0.8 W
		Power consumption maximum	1.0 W
	Cabling	Cable type: Single-mode fiber optic, complying with ITU-T G.652;	
		Maximum distance: • 70km	
		Fiber type	Single Mode
	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

HPE X120 1G SFP LC SX Transceiver (JD118B)	Ports	1 LC 1000BASE-SX port	
	Connectivity	Connector type	LC
A small form-factor pluggable (SFP) Gigabit SX transceiver that provides a full-duplex Gigabit solution up to 550m on a Multimode fiber.	Physical characteristics	Wavelength	850 nm
		Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)
		Full configuration weight	0.04 lb. (0.02 kg)
	Electrical characteristics	Power consumption typical	0.8 W
		Power consumption maximum	1.0 W
	Cabling	Maximum distance: • FDDI Grade distance = 220m • OM1 = 275m • OM2 = 500m • OM3 = Not Specified by standard	
		Cable length	up to 550m
		Fiber type	Multi Mode
	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

HPE X120 1G SFP LC LX Transceiver (JD119B)	Ports	1 SFP 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX)	
	Connectivity	Connector type	LC
A small form-factor pluggable (SFP) Gigabit	Physical characteristics	Wavelength	1300 nm
		Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)

Accessory Product Details

LX transceiver that provides a full duplex Gigabit solution up to 550m on MMF or 10Km on SMF

Electrical characteristics	Full configuration weight	0.04 lb. (0.02 kg)
	Power consumption typical	0.8 W
Cabling	Power consumption maximum	1.0 W
	Cable type:	Either single mode or multimode;
Services	Maximum distance:	
	• 550m for Multimode	
	• 10km for Singlemode	
	Fiber type	Both
	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 X120 1G SFP RJ45 T Transceiver (JD089B)	Ports	1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T)	
	Connectivity	Connector type	RJ-45
A small form factor pluggable (SFP) Gigabit 1000Base-T transceiver that provides a full duplex Gigabit solution up to 100m on a Cat-5+ cable.	Physical characteristics	Dimensions	2.71(d) x 0.54(w) x 0.55(h) in. (6.88 x 1.37 x 1.4 cm)
	Electrical characteristics	Full configuration weight	0.07 lb. (0.03 kg)
Cabling	Power consumption typical	0.8 W	
	Power consumption maximum	1.0 W	
Services	Cable type:	1000BASE-T: Category 5 (5E or better recommended), 100 Ω differential 4-pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;	
	Maximum distance:	• 100m	
	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.		

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

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

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

Accessory Product Details

Services

- Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45

Refer to the Hewlett Packard Enterprise website at

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

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

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

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

Services

Refer to the Hewlett Packard Enterprise website at

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

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

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

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

Services

Refer to the Hewlett Packard Enterprise website at

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

Accessory Product Details

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

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

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

Services

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

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

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

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

Services

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

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

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

- Core diameter: 50um \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um

Accessory Product Details

		<ul style="list-style-type: none"> • Bandwidth: 3000 MHz-km @ 850nm (Laser) • Jacket Color: Blue • Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic • Boot Color: White • Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable. • Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths > 30m • Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45
	Services	<p>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.</p>
HPE RPS1600 Redundant Power System (JG136A)	Ports	8 redundant power supply ports Restrictions: two -56V/25A DC(PoE); six -56V/8A DC(non-PoE)
	Physical characteristics	<p>Dimensions 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm)</p> <p>Weight 14.11 lb. (6.4 kg)</p> <p>Full configuration weight 16.75 lb. (7.6 kg)</p>
	Environment	<p>Operating temperature 14°F to 122°F (-10°C to 50°C)</p> <p>Operating relative humidity 5% to 95%</p> <p>Nonoperating/Storage temperature -40°F to 158°F (-40°C to 70°C)</p> <p>Nonoperating/Storage relative humidity 5% to 95%</p> <p>Altitude up to 13,123 ft. (4 km)</p> <p>Acoustic Pressure: 53 dB; ISO 7779, ISO 9296</p>
	Electrical characteristics	<p>Voltage 100-120/200-240 VAC</p> <p>Current 30/60 A</p> <p>Idle power 38 W</p> <p>Maximum power rating 3550 W</p> <p>RPS power 3200 W</p> <p>PoE power 2800 W</p> <p>RPS -55 V</p> <p>PoE -55 V</p> <p>Frequency 50/60 Hz</p> <p>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.</p>

Accessory Product Details

With one RPS1600 Power Supply, the PRS1600 Redundant Power System can provide 1600W power output; With two PRS1600 Power Supplies, the output power is 3200W.

Safety	CE Labeled; UL 60950-1; IEC 60950-1; ICES-003; FCC Part 15, Subpart B; EU RoHS Compliant; EN 60950-1/A11; C-Tick; VCCI Class A; ROHS Compliance; EN 300386
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

HPE RPS1600 1600W AC Power Supply (JG137A)	Physical characteristics	Dimensions	8.19(d) x 4.96(w) x 1.63(h) in. (20.8 x 12.6 x 4.15 cm)
		Weight	3.02 lb. (1.37 kg)
	Environment	Operating temperature	14°F to 122°F (-10°C to 50°C)
		Operating relative humidity	5% to 95%
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	5% to 95%
	Electrical characteristics	Voltage	100-120/200-240 VAC
		Current	15/30 A
		Maximum power rating	1600 W
		Frequency	50/60 Hz
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.		

Standards and protocols	IPv6	RFC 2405 The ESP DES-CBC Cipher Algorithm With Explicit IV
	RFC 1981 IPv6 Path MTU Discovery	RFC 2406 IP Encapsulating Security Payload (ESP)
	RFC 2460 IPv6 Specification	RFC 2410 The NULL Encryption Algorithm and Its Use With IPsec
	RFC 2465 Management Information Base for IP Version 6: Textual Conventions and General Group (partially support, only "IPv6 Interface Statistics table")	RFC 2411 IP Security Document Roadmap
	RFC 3484 Default Address Selection for IPv6	RFC 2451 The ESP CBC-Mode Cipher Algorithms
	RFC 3513 IPv6 Addressing Architecture	RFC 2473 Generic Packet Tunneling in IPv6 Specification
	RFC 3587 IPv6 Global Unicast Address Format	RFC 2529 Transmission of IPv6 over IPv4
	RFC 4007 IPv6 Scoped Address Architecture	
	RFC 4862 IPv6 Stateless Address Auto-	

Accessory Product Details

configuration

Security

RFC 1321 The MD5 Message-Digest Algorithm
 RFC 1334 PPP Authentication Protocols (PAP)
 RFC 1994 PPP Challenge Handshake Authentication Protocol (CHAP)
 RFC 2104 Keyed-Hashing for Message Authentication
 RFC 2138 RADIUS Authentication
 RFC 2618 RADIUS Authentication Client MIB
 RFC 2620 RADIUS Accounting Client MIB
 RFC 2716 PPP EAP TLS Authentication Protocol
 RFC 2865 RADIUS Authentication
 RFC 2866 RADIUS Accounting
 RFC 2867 RADIUS Accounting Modifications for Tunnel Protocol Support
 RFC 2868 RADIUS Attributes for Tunnel Protocol Support
 RFC 2869 RADIUS Extensions
 draft-grant-tacacs-02 (TACACS)

VPN

RFC 1701 Generic Routing Encapsulation (GRE)
 RFC 1702 Generic Routing Encapsulation over IPv4 networks.
 RFC 1828 IP Authentication using Keyed MD5
 RFC 1829 The ESP DES-CBC Transform
 RFC 1853 IP in IP Tunneling
 RFC 2085 HMAC-MD5 IP Authentication with Replay Prevention
 RFC 2401 Security Architecture for the Internet Protocol
 RFC 2402 IP Authentication Header
 RFC 2403 The Use of HMAC-MD5-96 within ESP and AH
 RFC 2404 The Use of HMAC-SHA-1-96 within ESP and AH

Domains

without Explicit Tunnels

RFC 2661 Layer Two Tunneling Protocol "L2TP"
 RFC 2784 Generic Routing Encapsulation (GRE)
 RFC 2868 RADIUS Attributes for Tunnel Protocol Support
 RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers
 RFC 3602 The AES-CBC Cipher Algorithm and Its Use with IPsec
 RFC 4214 Intra-Site Automatic Tunnel Addressing Protocol (ISATAP)

IKEv1

RFC 2407 The Internet IP Security Domain of Interpretation for ISAKMP
 RFC 2408 Internet Security Association and Key Management Protocol (ISAKMP).
 RFC 2409 The Internet Key Exchange (IKE)
 RFC 2412 The OAKLEY Key Determination Protocol
 RFC 3526 More Modular Exponential (MODP) Diffie-Hellman groups for Internet Key Exchange (IKE)
 RFC 3706 A Traffic-Based Method of Detecting Dead Internet Key Exchange (IKE) Peers

PKI

RFC 2510 Internet X.509 Public Key Infrastructure Certificate Management Protocols
 RFC 2511 Internet X.509 Certificate Request Message Format
 RFC 3279 Algorithms and Identifiers for the Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile
 RFC 3280 Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile
 draft-nourse-scep-06:
 PKCS#1
 PKCS#10
 PKCS#12
 PKCS#7

Summary of Changes

Date	Version History	Action	Description of Change:
03-Oct-2016	From Version 35 to 36	Added	SKUs added: JD362B, JD366B
		Changed	Overview and Technical Specifications updated
19-Aug-2016	From Version 34 to 35	Changed	Minor changes made on Configuration section
06-June-2016	From Version 33 to 34	Changed	Product description updated. Document name changed to HPE FlexFabric 5800 Switch Series.
22-Apr-2016	From Version 32 to 33	Changed	SKUs descriptions updated on the document
01-Dec-2015	From Version 31 to 32	Changed	Overview and Technical Specifications updated
12-Oct-2015	From Version 30 to 31	Added	Added new DC power supply: JH336A
12-Jun-2015	From Version 29 to 30	Changed	Images changed to real photos. Configuration menu updated.
20- Apr-2015	From Version 28 to 29	Deleted	SKUs deleted from Transceivers: JD098B, JD099B
		Changed	A to B Product Roll on the Switch Series , Technical Specifications updated Accessories Section updated
01-Dec-2014	From Version 27 to 28	Changed	Warranty and support updated
10-Jun-2014	From Version 26 to 27	Changed	Switch Options were revised in Configuration.
15-Apr-2014	From Version 25 to 26	Changed	Notes section for Box Level Integration CTO Models were revised in Configuration.
19-Mar-2014	From Version 24 to 25	Changed	Transceivers and Modules were revised.
16-Jan-2014	From Version 23 to 24	Removed	HPE X240 10G SFP+ 7m DAC Cable was removed from Configuration.
17-Dec-2013	From Version 21 to 23	Changed	Configuration was revised and Configuration - AF Models was removed
11-Nov-2013	From Version 19 to 21	Changed	Configuration - AF Models notes and transceivers were revised.
15-Oct-2013	From Version 18 to 19	Changed	Configuration was revised.
19-Aug-2013	From Version 17 to 18	Changed	Configuration was revised.
05-Jul-2013	From Version 16 to 17	Added	Accessories: Added two options.
27-Jun-2013	From Version 15 to 16	Changed	Features and benefits and Standards and protocols were revised HPE 5800 Access Controller Modules for 64-256 and 32-64 Access Points were removed
10-Jun-2013	From Version 14 to 15	Changed	Configuration Rules was revised throughout Configuration and Configuration - AF Models was added.
24-Apr-2013	From Version 13 to 14	Added	Overview: Added Images.
10-Apr-2013	From Version 12 to 13	Changed	Updated the Configuration section.
25-Mar-2013	From Version 11 to 12	Added	Overview: Added Build to Order section to the Features and benefits section.
24-Aug-2012	From Version 10 to 11	Changed	Updated the Features and Benefits, Introduction and Accessories sections.

Summary of Changes

20-Aug-2012	August 20, 2012- From Version 9 to 10	Changed	Updated Accessories and Features and Benefits.
14-May-2012	From Version 8 to 9	Changed	Features and Benefits, Accessories, and the weight and dimensions for each spec were revised.
20-Apr-2012	From Version 7 to 8	Changed	Features and Benefits and Accessories were revised.
16-Nov-2011	From Version 6 to 7	Changed	Updated the Connectivity section of Features and Benefits.
26-Sep-2011	From Version 4 to 6	Added	New models were added.
24-May-2011	From Version 3 to 4	Changed	Accessories were revised.
17-Mar-2011	From Version 2 to 3	Changed	Monitors and Diagnostics was revised.
01-Feb-2011	From Version 1 to 2	Changed	Models and Accessories were revised.



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