QuickSpecs

Overview

HPE 5500 HI Switch Series



Models

HP 5500-24G-4SFP HI Switch with 2 Interface Slots	JG311A
HP 5500-48G-4SFP HI Switch with 2 Interface Slots	JG312A
HP 5500-24G-PoE+-4SFP HI Switch with 2 Interface Slots	JG541A
HP 5500-48G-PoE+-4SFP HI Switch with 2 Interface Slots	JG542A
HP 5500-24G-SFP HI Switch with 2 Interface Slots	JG543A

Key features

- High expandability for investment protection
- Premium resiliency and integrated management
- SDN readiness with OpenFlow support
- Full-featured IPv4/IPv6 dual stack
- 1440 W of PoE+ power using dual power supplies for high resiliency

Product overview

The HPE 5500 HI Switch Series comprises Gigabit Ethernet switches that deliver outstanding resiliency, security, and multiservice support capabilities at the edge layer of data center, large campus, and metro Ethernet networks. The switches can also be used in the core layer of SMB networks.

With Intelligent Resilient Fabric (IRF) support and available dual power supplies, the HPE 5500 HI Switch Series can deliver the highest levels of resiliency and manageability. In addition, the PoE+ models provide up to 1440 W of PoE+ power with the dual power supply configuration.

Designed with two fixed 10GbE ports and extension module flexibility, these switches can provide up to six 10GbE uplink or 70 GbE ports. With complete IPv4/IPv6, OpenFlow, and MPLS/VPLS features, the series provides investment protection with an easy transition from IPv4 to IPv6 networks



Overview

Features and benefits

Software-defined networking

OpenFlow

supports OpenFlow 1.3 specification to enable SDN by allowing separation of the data (packet forwarding) and control (routing decision) paths

Quality of Service (QoS)

Advanced classifier-based QoS

classifies traffic using multiple match criteria based on Layer 2, 3, and 4 information; applies QoS policies such as setting priority level and rate limit to selected traffic on a per-port or per-VLAN basis

Traffic policing

supports Committed Access Rate (CAR) and line rate

• 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), SP+WDRR, and SP+WFQ.

Storm restraint

allows limitation of broadcast, multicast, and unknown unicast traffic rate to reduce unwanted broadcast traffic on the network

Management

Friendly port names

allow assignment of descriptive names to ports

• **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

• Complete session logging

provides detailed information for problem identification and resolution

• Remote configuration and management

enables configuration and management through a secure Web browser or a CLI located on a remote device

• Manager and operator privilege levels

provides read-only (operator) and read/write (manager) access on CLI and Web browser management interfaces

Management VLAN

segments traffic to and from management interfaces, including CLI/Telnet, a Web browser interface, and SNMP

Command authorization

leverages RADIUS to link a custom list of CLI commands to an individual network administrator's login; an audit trail documents activity

Secure web GUI

provides a secure, easy-to-use graphical interface for configuring the module via HTTPS

SNMPv1. v2c. and v3

facilitate centralized discovery, monitoring, and secure management of networking devices

Remote monitoring (RMON)

uses standard SNMP to monitor essential network functions; supports events, alarm, history, and statistics group plus a private alarm extension group

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

In-service software upgrade (ISSU)

Overview

enables operators to perform upgrades in the shortest possible amount of time with minimal risk to network operations or traffic disruptions

Connectivity

Auto-MDIX

provides automatic adjustments for straight-through or crossover cables on all 10/100 and 10/100/1000 ports

• Packet storm protection

protects against broadcast, multicast, or unicast storms with user-defined thresholds

Ethernet operations, administration and maintenance (OAM)

detects data link layer problems that occurred in the "last mile" using the IEEE 802.3ah OAM standard; monitors the status of the link between two devices

Flow control

provides back pressure using standard IEEE 802.3x, reducing congestion in heavy traffic situations

• Fixed 10GbE ports

provides two fixed SFP+ ports for a 20 GbE connection to the network without the need for additional extension interface modules

Optional 10GbE ports

deliver, through the use of optional modules, additional 10GbE connections, which are available for uplinks or high-bandwidth server connections; flexibly support copper, XFP, SFP+, or CX4 local connections

Optional 8-port SFP module

adds up to eight additional wirespeed Gigabit Ethernet ports for unprecedented Gigabit density in a single 1U enclosure

• Jumbo packet support

supports up to 12288-byte frame size to improve the performance of large data transfers

High-bandwidth CX4 local stacking

achieves 12 Gbps per connection when using local CX4 stacking, allowing for up to 96 Gbps total stacking bandwidth (full duplex) in a resilient stacking configuration

• IEEE 802.3at Power over Ethernet (PoE+)

provides up to 30 W per port that allows support of the latest PoE+-capable devices such as IP phones, wireless access points, and security cameras, as well as any IEEE 802.3af-compliant end device; eliminates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments

Performance

Hardware-based wirespeed access control lists (ACLs)

help provide high levels of security and ease of administration without impacting network performance with a feature-rich TCAM-based ACL implementation

Nonblocking architecture

delivers up to 224 Gb/s of wire-speed switching with a nonblocking switching fabric and up to 167 million pps throughput

Resiliency and high availability

• Separate data and control paths

separates control from services and keeps service processing isolated; increases security and performance

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

• Intelligent Resilient Fabric (IRF)

creates virtual resilient switching fabrics, where two or more switches perform as a single L2 switch and L3 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; can eliminate the need for complex protocols like Spanning Tree Protocol, Equal-Cost Multipath (ECMP), or VRRP, thereby simplifying network operation

• Rapid Ring Protection Protocol (RRPP)

connects multiple switches in a high-performance ring using standard Ethernet technology; traffic can be rerouted around

Overview

the ring in less than 50 ms, reducing the impact on traffic and applications

Smart link

allows 50 ms failover between links

• Virtual Router Redundancy Protocol (VRRP)

allows groups of two routers to back each other up dynamically to create highly available routed environments

Manageability

Dual flash images

provides independent primary and secondary operating system files for backup while upgrading

• Multiple configuration files

allow multiple configuration files to be stored to a flash image

• IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

facilitates easy mapping using network management applications with LLDP automated device discovery protocol

Troubleshooting

allows ingress and egress port monitoring enabling network problem solving; virtual cable tests provide visibility into cable problems

IPv6 management

future-proofs networking, as the switch is capable of being managed whether the attached network is running IPv4 or IPv6; supports pingv6, tracertv6, Telnetv6, TFTPv6, DNSv6, and ARPv6

Layer 2 switching

• GARP VLAN Registration Protocol

allows automatic learning and dynamic assignment of VLANs

IP multicast snooping and data-driven IGMP

automatically prevents flooding of IP multicast traffic

• Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) protocol snooping

controls and manages the flooding of multicast packets in a Layer 2 network

• 32K MAC addresses

provide access to many Layer 2 devices

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

10GbE 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

• 32 MSTP instances

allow multiple configurations of STP per VLAN group

Layer 3 services

Loopback interface address

defines an address in Routing Information Protocol (RIP) and Open Standard Path First (OSPF), improving diagnostic capability

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

User Datagram Protocol (UDP) helper function

Overview

allows UDP broadcasts to be directed across router interfaces to specific IP unicast or subnet broadcast addresses and prevents server spoofing for UDP services such as DHCP

Layer 3 routing

IPv4 routing protocols

support static routes, RIP, OSPF, ISIS, and BGP

• IPv6 routing protocols

provide routing of IPv6 at wire speed; support static routes, RIPng, OSPFv3, IS-ISv6, and BGP4+ for IPv6

• PIM-SSM, PIM-DM, and PIM-SM (for IPv4 and IPv6)

support IP Multicast address management and inhibition of DoS attacks

MPLS support

provides extended support of MPLS, including MPLS VPNs and MPLS Traffic Engineering (MPLS TE)

• Virtual Private LAN Service (VPLS)

establishes point-to-multipoint Layer 2 VPNs across a provider network

• Bidirectional Forwarding Detection (BFD)

enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP, IS-IS, VRRP, MPLS, and IRF

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

IPv6 tunneling

allows a smooth transition from IPv4 to IPv6 by encapsulating IPv6 traffic over an existing IPv4 infrastructure

Security

Access control lists (ACLs)

provide IP Layer 2 to Layer 4 traffic filtering; support global ACL, VLAN ACL, port ACL, and IPv6 ACL; up to 6144 ingress ACLs and 1024 egress ACLs are supported

• IEEE 802.1X

defines an industry-standard method of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server

MAC-based authentication

authenticates the client with the RADIUS server based on the client's MAC address

• Identity-driven security and access control

o Per-user ACLs

permit or deny user access to specific network resources based on user identity and time of day, allowing multiple types of users on the same network to access specific network services without risking network security or providing unauthorized access to sensitive data

o Automatic VLAN assignment

assigns users automatically to the appropriate VLAN based on their identities

Port security

allows access only to specified MAC addresses, which can be learned or specified by the administrator

Secure FTP

allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file

• STP BPDU port protection

blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks

DHCP protection

blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks

DHCP snooping

helps ensure that DHCP clients receive IP addresses from authorized DHCP servers and maintain a list of DHCP entries for trusted ports; prevents reception of fake IP addresses and reduces ARP attacks, improving security

DHCPv6 snooping

Overview

ensures that DHCPv6 clients obtain IPv6 addresses from authorized DHCPv6 servers and record IP-to-MAC mappings of DHCPv6 clients

• Dynamic ARP protection

blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data

STP root guard

protects the root bridge from malicious attacks or configuration mistakes

Guest VLAN

provides a browser-based environment to authenticated clients that is similar to IEEE 802.1X

Port isolation

secures and adds privacy, and prevents malicious attackers from obtaining user information

IP source guard

helps prevent IP spoofing attacks

• IPv6 source guard

help prevent IPv6 spoofing attacks using ND Snooping as well as DHCPv6 Snooping

ND Snooping

allows only packets with a legally obtained IPv6 address to pass

• Endpoint Admission Defense (EAD)

provides security policies to users accessing a network

RADIUS/HWTACACS

eases switch management security administration by using a password authentication server

• Secure management access

delivers secure encryption of all access methods (CLI, GUI, or MIB) through SSHv2 and SNMPv3

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

Convergence

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

• Internet Group Management Protocol (IGMP)

utilizes Any-Source Multicast (ASM) or Source-Specific Multicast (SSM) to manage IPv4 multicast networks; supports IGMPv1, v2, and v3

Multicast Source Discovery Protocol (MSDP)

allows multiple PIM-SM domains to interoperate; is used for inter-domain multicast applications

Multicast Border Gateway Protocol (MBGP)

allows multicast traffic to be forwarded across BGP networks and kept separate from unicast traffic

Multicast VLAN

allows multiple VLANs to receive the same IPv4 or IPv6 multicast traffic, lessening network bandwidth demand by reducing or eliminating multiple streams to each VLAN

• LLDP-CDP compatibility

receives and recognizes CDP packets from Cisco's IP phones for seamless interoperation

Additional information

• Green initiative support

provides support for RoHS and WEEE regulations

• 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

Warranty and support

Overview

• 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.

Switch Chassis

HP 5500-24G-4SFP HI Switch with 2 Interface Slots

JG311A

- 24 RJ-45 autosensing 10/100/1000 ports
- 4 fixed Gigabit Ethernet SFP ports(min=0 \ max=4 SFP Transceivers)
- 2 SFP+ ports(min=0 \ max=2 SFP+ Transceivers)
- 2 port expansion module slots
- Must select min 1 power supply
- 1U Height

HP 5500-24G-SFP HI Switch with 2 Interface Slots

JG543A See Configuration

- 4 RJ-45 autosensing 10/100/1000 ports
- 24 SFP fixed Gigabit Ethernet SFP ports (min=0 \ max=24 SFP Transceivers)
- 2 fixed SFP+ ports (min=0 \ max=2 SFP+ Transceivers)
- 2 open module slots, or a combination
- Must select min 1 power supply
- 1U Height

NOTE:1, 2

HP 5500-24G-PoE+-4SFP HI Switch with 2 Interface Slots

- 24 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 SFP fixed Gigabit Ethernet SFP ports (min=0 \ max=4 SFP Transceivers)
- 2 SFP+ ports (min=0 \ max=2 SFP+ Transceivers)
- 2 port expansion module slots
- Must select min 1 power supply
- 1U Height

JG541A

See Configuration NOTE:1, 2

HP 5500-48G-4SFP HI Switch with 2 Interface Slots

- 48 RJ-45 autosensing 10/100/1000 ports
- 4 fixed Gigabit Ethernet SFP ports(min=0 \ max=4 SFP Transceivers)
- 2 SFP+ ports(min=0 \ max=2 SFP+ Transceivers)
- 2 port expansion module slots
- Must select min 1 power supply
- 1U Height

JG312A

See Configuration

NOTE:1, 2

HP 5500-48G-PoE+-4SFP HI Switch with 2 Interface Slots

- 48 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 SFP fixed Gigabit Ethernet SFP ports (min=0 \ max=4 SFP Transceivers)
- 2 SFP+ ports (min=0 \ max=2 SFP+ Transceivers)
- 2 port expansion module slots
- Must select min 1 power supply
- 1U Height

JG542A

See Configuration NOTE:1, 2

Configuration

Configuration Rules:

Note 1

HPE X125 1G SFP LC LH40 1310nm Transceiver
HPE X120 1G SFP LC LH40 1550nm Transceiver
HPE X120 1G SFP LC SX Transceiver

The following Transceivers install into this Switch: (SFP Ports)

HPE X120 1G SFP LC LX Transceiver

HPE X120 1G SFP RJ45 T Transceiver

JD089B

HPE X120 1G SFP LC BX 10-U Transceiver

JD098B

HPE X120 1G SFP LC BX 10-D Transceiver

JD099B

HPE X115 100M SFP LC BX 10-U Transceiver

JD100A

HPE X115 100M SFP LC BX 10-D Transceiver

JD101A

HPE X110 100M SFP LC LH80 Transceiver JD091A
HPE X115 100M SFP LC FX Transceiver JD102B

HPE X110 100M SFP LC LX Transceiver JD120B

Note 2 The following Transceivers install into this Switch: (SFP Ports)

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 LH 80km Transceiver	JG915A
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
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 X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B

Box Level Integration CTO Models

CTO Solution Sku

HP 55xx CTO Switch Solution

• SSP trigger sku JG506A

CTO Switch Chassis

JD061A JD062A JD118B

Configuration

HP 5500-24G-4SFP HI Switch with 2 Interface Slots

- 24 RJ-45 autosensing 10/100/1000 ports
- 4 fixed Gigabit Ethernet SFP ports(min=0 \ max=4 SFP Transceivers)
- 2 SFP+ ports(min=0 \ max=2 SFP+ Transceivers)
- 2 port expansion module slots
- Must select min 1 power supply
- 1U Height

HP 5500-24G-SFP HI Switch with 2 Interface Slots

- 4 RJ-45 autosensing 10/100/1000 ports
- 24 SFP fixed Gigabit Ethernet SFP ports (min=0 \ max=24 SFP Transceivers)
- 2 fixed SFP+ ports (min=0 \ max=2 SFP+ Transceivers)
- 2 open module slots, or a combination
- Must select min 1 power supply
- 1U Height

HP 5500-24G-PoE+-4SFP HI Switch with 2 Interface Slots

- 24 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 SFP fixed Gigabit Ethernet SFP ports (min=0 \ max=4 SFP Transceivers)
- 2 SFP+ ports (min=0 \ max=2 SFP+ Transceivers)
- 2 port expansion module slots
- Must select min 1 power supply
- 1U Height

HP 5500-48G-4SFP HI Switch with 2 Interface Slots

- 48 RJ-45 autosensing 10/100/1000 ports
- 4 fixed Gigabit Ethernet SFP ports(min=0 \ max=4 SFP Transceivers)
- 2 SFP+ ports(min=0 \ max=2 SFP+ Transceivers)
- 2 port expansion module slots
- Must select min 1 power supply
- 1U Height

HP 5500-48G-PoE+-4SFP HI Switch with 2 Interface Slots

- 48 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 SFP fixed Gigabit Ethernet SFP ports (min=0 \ max=4 SFP Transceivers)
- 2 SFP+ ports (min=0 \ max=2 SFP+ Transceivers)
- 2 port expansion module slots
- Must select min 1 power supply
- 1U Height

Configuration Rules:

Note 1 The following Transceivers install into this Switch: (SFP Ports) (Use #0D1 quoted to switch if switch is CTO) - if applicable

HPE X125 1G SFP LC LH40 1310nm Transceiver

HPE X120 1G SFP LC LH40 1550nm Transceiver

JD061A

JD062A

JG543A

JG311A

See Configuration

NOTE:1, 2, 10

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

JG541A

See Configuration NOTE:1, 2, 10

JG312A

See Configuration NOTE:1, 2, 10

JG542A

See Configuration

Configuration

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 X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B

Note 2 The following Transceivers install into this Switch: (SFP Ports) (Use #0D1 quoted to switch 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 LH 80km Transceiver	JG915A
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
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 X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B

Note 10 If the Switch Chassis is to be Factory Integrated (CTO), Then the #0D1 is required on the Switch Chassis and integrated to the JG506A - HP 55xx CTO Switch Solution. (Min 1/Max 1 Switch per SSP)

Rack Level Integration CTO Models

Switch Chassis

HP 5500-24G-4SFP HI Switch with 2 Interface Slots

- 24 RJ-45 autosensing 10/100/1000 ports
- 4 fixed Gigabit Ethernet SFP ports(min=0 \ max=4 SFP Transceivers)
- 2 SFP+ ports(min=0 \ max=2 SFP+ Transceivers)
- 2 port expansion module slots
- Must select min 1 power supply
- 1U Height

JG311A
See Configuration
NOTE:1, 2, 10

Configuration

HP 5500-24G-SFP HI Switch with 2 Interface Slots

• 4 RJ-45 autosensing 10/100/1000 ports

- 24 SFP fixed Gigabit Ethernet SFP ports (min=0 \ max=24 SFP Transceivers)
- 2 fixed SFP+ ports (min=0 \ max=2 SFP+ Transceivers)
- 2 open module slots, or a combination
- Must select min 1 power supply
- 1U Height

HP 5500-24G-PoE+-4SFP HI Switch with 2 Interface Slots

- 24 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 SFP fixed Gigabit Ethernet SFP ports (min=0 \ max=4 SFP Transceivers)
- 2 SFP+ ports (min=0 \ max=2 SFP+ Transceivers)
- 2 port expansion module slots
- Must select min 1 power supply
- 1U Height

HP 5500-48G-4SFP HI Switch with 2 Interface Slots

- 48 RJ-45 autosensing 10/100/1000 ports
- 4 fixed Gigabit Ethernet SFP ports(min=0 \ max=4 SFP Transceivers)
- 2 SFP+ ports(min=0 \ max=2 SFP+ Transceivers)
- 2 port expansion module slots
- Must select min 1 power supply
- 1U Height

HP 5500-48G-PoE+-4SFP HI Switch with 2 Interface Slots

- 48 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 SFP fixed Gigabit Ethernet SFP ports (min=0 \ max=4 SFP Transceivers)
- 2 SFP+ ports (min=0 \ max=2 SFP+ Transceivers)
- 2 port expansion module slots
- Must select min 1 power supply
- 1U Height

Configuration Rules:

Note 1 The following Transceivers install into this Switch: (SFP Ports) (Use #0D1 quoted to switch 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 LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
HPE X110 100M SFP LC LH80 Transceiver	JD091A

JG541A

See Configuration

NOTE:1, 2, 10

JG543A

See Configuration

NOTE:1, 2, 10

JG312A

See Configuration NOTE:1, 2, 10

See Configuration

Configuration

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

The following Transceivers install into this Switch: (SFP+ Ports) (Use #0D1 or #B01 Note 2 quoted to switch 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 LH 80km Transceiver	JG915A
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
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 X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B

Note 10 If HP CTO Switch Chassis is selected for Rack Level Integration, Then the Switch needs to integrate (with

#0D1) to the Rack.

Remarks: No Rail Kit required

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

Internal Power Supplies

System (std 0 // \max 2) User Selection (\min 1 // \max 2) per switch enclosure

JD366A See Configuration NOTE:1

HPE X361 150W 48-60VDC to 12VDC Power Supply

HPE FlexNetwork 5500 150WDC Power Supply

JD366B See Configuration

NOTE:1

HP 5500 150WAC Power Supply

includes 1 x c13, 150w

JD362A See Configuration **NOTE:**1.2

Configuration PDU Cable NA/MEX/TW/JP JD362A#B2B • C15 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JD362A#B2C • C15 PDU Jumper Cord (ROW) HPE X361 150W 100-240VAC to 12VDC Power Supply JD362B See Configuration • includes 1 x c13, 910w **NOTE:**1, 2, 3 PDU Cable NA/MEX/TW/JP JD362B #B2B C13 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JD362B #B2C C13 PDU Jumper Cord (ROW) High Volt Switch to Wall Power Cord JD362B #B2E • HPE 2.3M C13 to NEMA L6-20P Power Cord (J9936A) No Power Cord JD362B #AC3 No Localized Power Cord Selected HPE X362 720W 100-240VAC to 56VDC PoE Power Supply JG544A • includes 1 x c13, 720w See Configuration **NOTE:**2, 3, 4 PDU Cable NA/MEX/TW/JP JG544A#B2B • C15 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JG544A#B2C C15 PDU Jumper Cord (ROW) High Volt Switch to Wall Power Cord JG544A#B2E NEMA L6-20P Cord (NA/MEX/JP/TW)

HPE X362 1110W 115-240VAC to 56VDC PoE Power Supply

JG545A

• includes 1 x c13, 1100w See Configuration

NOTE:2, 3, 4

PDU Cable NA/MEX/TW/JP JG545A#B2B

• C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU Cable ROW JG545A#B2C

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Configuration

• C15 PDU Jumper Cord (ROW)

High Volt Switch to Wall Power Cord

JG545A#B2E

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

Configuration Rules:

Note 1 This power supply only supported on JG311x, JG312x, JG543x and JG681A Only.

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 If #B2E is selected Then replace Localized option with #B2E for power supply and with

#B2E for switch . (Offered only in AMS, Taiwan, and Japan)

Note 4 This power supply only supported on JG541x, JG542x, JG679A and JG680A Only.

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

Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO) Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default

for BTO and Box Level CTO)

High Volt Switch/Router/Power Supply to Wall Power Cord - #B2E Option. (Offered

only in North America, Mexico, Taiwan, and Japan)

NOTE* DC Power Supply does not require Localization (CLIC Rule to not require

looking for Localization)

NOTE* Mixing of power supplies is supported

Modules

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

HP 5500 2-port 10GbE XFP Module

min=0 \ max=2 XFP Transceivers

JD359B See Configuration

NOTE:2, 6, 7

HP 5500 2-port 10GbE Local Connect Module

min=0 \ max=2 CX4 Cables

JD360B See Configuration NOTE:4, 6, 7

HP 5500 1-port 10GbE XFP Module

• min=0 \ max=2 SFP+ Transceivers

JD361B
See Configuration
NOTE:2, 6, 7

Configuration

HPE FlexNetwork 5500/5120 2-port 10GbE SFP+ Module

• min=0 \ max=2 SFP+ Transceivers See Configuration NOTE:1, 6, 7

HPE FlexNetwork 5500/4800 2-port GbE SFP Module

• min=0 \ max=2 SFP Transceivers See Configuration NOTE:3, 6, 7

HPE FlexNetwork 5500 8-port Gig-T Module

No Transceivers

See Configuration

NOTE:5, 6, 7

HPE FlexNetwork 5500 8-port SFP Module

• min=0 \ max=8 SFP Transceivers See Configuration NOTE:3, 5, 6, 7

HPE FlexNetwork 5500/5120 2-port 10GBASE-T Module

• No Transceivers

See Configuration

NOTE:6, 7

Configuration Rules:

Note 1 The following Transceivers install into this Module:

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 LH 80km Transceiver	JG915A
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
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 X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
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 2 The following Transceivers install into this Module:

HPE X135 10G XFP LC ER Transceiver	JD121A
HPE X130 10G XFP LC LR Single Mode 10km 1310nm Transceiver	JD108B
HPE X130 10G XFP LC SR Transceiver	JD117B
HPE X130 10G XFP LC ZR Single Mode 80km 1550nm Transceiver	JD107A

JD368B

JD367A

JG314A

JG535A

Configuration

Note 3	The following Transceivers install into this Module:	
	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 X120 1G SFP LC BX 10-U Transceiver	JD098B
	HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
	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 X115 100M SFP LC BX 10-U Transceiver	JD100A
	HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
	HPE X110 100M SFP LC LH80 Transceiver	JD091A
	HPE X115 100M SFP LC FX Transceiver	JD102B
	HPE X110 100M SFP LC LX Transceiver	JD120B
Note 4	The following Cables install into this Module: (Use #B01 if switch is CTO)	
	HPE X230 Local Connect 50cm CX4 Cable	JD363B
	HPE X230 Local Connect 100cm CX4 Cable	JD364B
	HPE X230 CX4 to CX4 3m Cable	JD365A
Note 5	If this module is installed in the JG311A, JG543A, or JG541A, or JG680A Then the max = 1. Installs in Slot 1.	
Note 6	If factory intergrated into the switch, This Module must be ordered as #0D1 when the switch is not Factory Racked.	
Note 7	If factory intergrated into the switch, This Module must be ordered as #B01 when the switch is Factory Racked (Rack Level Integration CTO).	

Transceivers

SFP Transceivers

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

Configuration	
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE X115 100M SFP LC BX 10-U Transceiver	JD100A
HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B
HPE X115 100M SFP LC BX 10-D Transceiver	JD101A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
SFP+ Transceivers	
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
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 LH 80km Transceiver	JG915A
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
XFP Transceivers	
HPE X130 10G XFP LC ZR Single Mode 80km 1550nm Transceiver	JD107A
HPE X130 10G XFP LC LR Single Mode 10km 1310nm Transceiver	JD108B
HPE X130 10G XFP LC SR Transceiver	JD117B
HPE X135 10G XFP LC ER Transceiver	JD121A

Cables

Configuration

Local Connect Cables

HPE X230 Local Connect 50cm CX4 Cable	JD363B
HPE X230 Local Connect 100cm CX4 Cable	JD364B
HPE X230 CX4 to CX4 3m Cable	JD365A
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

Switch Enclosure Options

Opacity Shield Kit

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

HPE 5500 24G 4SFP HI 2-slot Switch Opacity Shield Kit

• Supported on JG681A

JG716A See Configuration NOTE:1

Configuration

HP 5500-24G-PoE+-4SFP HI Switch with 2 Interface Slots Opacity Shield Kit

• Supported on JG679A, JG680A

JG891A 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 JG716A or JG891A

JG585A See Configuration NOTE:1

Configuration Rules:

Note 1 If selected with a CTO Switch Solution, Quantity 1 of JG719A#B01 or JG891A#B01 must also be ordered.

Remarks Each JG716A or JG891A would use 1 of JG585A.

Technical Specifications

HP 5500-24G-4SFP HI Switch with 2 Interface Slots (JG311A)

I/O ports and slots 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); Media Type: Auto-MDIX; Duplex: 10BASE-

T/100BASE-TX: half or full: 1000BASE-T: full only

4 fixed Gigabit Ethernet SFP ports

2 SFP+ 10GbE ports

2 port expansion module slots

Supports a maximum of 38 autosensing 100/1000 ports, with optional module

Additional ports and

1 RJ-45 serial console port

slots

1 RJ-45 out-of-band management port

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

17.32(w) x 14.17(d) x 1.72(h) in (44.00 x 36.00 x 4.37 cm) (1U height) Physical characteristics **Dimensions**

> Weight 16.53 lb (7.5 kg), Fully loaded

1 GB SDRAM; Packet buffer size: 3 MB, 512 MB flash Memory and processor

Mounting and enclosure Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)

Performance 1000 Mb Latency < 5 µs

10 Gbps Latency < 3 us

Throughput up to 130.9 Mpps

Routing/Switching

capacity

176 Gbps

Routing table size 12000 entries (IPv4), 6000 entries (IPv6)

MAC address table size 32000 entries

Environment Operating temperature

Operating relative

humidity

32°F to 122°F (0°C to 50°C)

5% to 95%, noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 47.9 dB, High-speed fan: 51.1 dB; ISO 7779

Electrical characteristics Frequency 50/60 Hz

Maximum heat

481 BTU/hr (507.46 kJ/hr) dissipation

Voltage 100 - 240 VAC, rated

-48 to -60 VDC, rated

(depending on power supply chosen)

Maximum power rating

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.

UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part Safety

2; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J; ROHS

Technical Specifications

Compliance; AS/NZS 60950-1; GB 4943

Emissions EN 55022 Class A; CISPR 22 Class A; EN 55024; ICES-003 Class A; CISPR 24; AS/NZS CISPR 22 Class

61000-3-2; EN 61000-3-3; GB9254; VCCI-3 CLASS A; VCCI-4 CLASS A; ETSI EN 300 386; FCC Part

15 (CFR 47) CLASS A; YD/T993

Notes 8-port Gig-T and SFP modules (JG313A and JG314A) are supported only in slot 1 of this switch.

Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for

details on the service-level descriptions and product numbers. For details about services and response

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

HP 5500-48G-4SFP HI Switch with 2 Interface Slots (JG312A)

48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type I/O ports and slots

100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-

T/100BASE-TX: half or full; 1000BASE-T: full only

4 fixed Gigabit Ethernet SFP ports

2 SFP+ 10GbE ports

2 port expansion module slots

Supports a maximum of 70 autosensing 100/1000 ports, with optional module

Additional ports and

1 RJ-45 serial console port

slots

Services

1 RJ-45 out-of-band management port

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

17.32(w) x 16.54(d) x 1.72(h) in (44.0 x 42.0 x 4.37 cm) (1U height) Physical characteristics **Dimensions**

> Weight 18.74 lb (8.5 kg)

Memory and processor

1 GB SDRAM; Packet buffer size: 6 MB, 512 MB flash

Mounting and enclosure

Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)

Performance

1000 Mb Latency < 5 us 10 Gbps Latency < 3 µs

Throughput up to 166.6 Mpps

Routing/Switching

capacity

224 Gbps

Routing table size 12000 entries (IPv4), 6000 entries (IPv6)

32000 entries MAC address table size

Environment Operating temperature

32°F to 122°F (0°C to 50°C) Operating relative

humidity

5% to 95%, noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 48.6 dB, High-speed fan: 57.6 dB; ISO 7779

Electrical characteristics 50/60 Hz Frequency

Maximum heat

651 BTU/hr (686.81 kJ/hr)

dissipation

Voltage 100 - 240 VAC, rated

-48 to -60 VDC, rated

(depending on power supply chosen)

Technical Specifications

Maximum power rating 191 W

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; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J; ROHS

Compliance; AS/NZS 60950-1; GB 4943

Services Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for

details on the service-level descriptions and product numbers. For details about services and response

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

HP 5500-24G-PoE+-4SFP HI Switch with 2 Interface Slots (JG541A)

24 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type I/O ports and slots

100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX;

Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

4 fixed Gigabit Ethernet SFP ports

2 SFP+ 10GbE ports

2 port expansion module slots

Supports a maximum of 38 autosensing 100/1000

ports, with optional module

Additional ports and

1 RJ-45 serial console port

slots

1 RJ-45 out-of-band management port

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Dimensions 17.32(w) x 18.11(d) x 1.72(h) in (43.99 x 46 x 4.37 cm) (1U height) Physical characteristics

> Weight 22.05 lb (10 kg) shipping weight

1 GB SDRAM: Packet buffer size: 3 MB. 512 MB flash Memory and processor

Mounting and enclosure

Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (hardware included)

Performance 1000 Mb Latency < 5 µs

> 10 Gbps Latency < 3 µs

Throughput up to 130.9 Mpps

Routing/Switching

capacity

176 Gbps

Routing table size 12000 entries (IPv4), 6000 entries (IPv6)

MAC address table size 32000 entries

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

humidity

Operating relative

5% to 95%, noncondensing

Nonoperating/Storage

-40°F to 158°F (-40°C to 70°C)

temperature

Nonoperating/Storage

5% to 95%, noncondensing

relative humidity

Low-speed fan: 41.0 dB, High-speed fan: 64.0 dB; ISO 7779 Acoustic

Electrical characteristics Frequency 50/60 Hz

> 460 BTU/hr (485.3 kJ/hr) Maximum heat dissipation

Technical Specifications

Voltage 100 - 240 VAC, rated

-48 to -60 VDC, rated

(depending on power supply chosen)

Maximum power rating 150 W

PoE power 740 W PoF+

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.

PoE power is the maximum power available from the required power supply or supplies. Device supports 1 or 2 internal modular power

supplies. JG544A will supply up to 435 watts of PoE+ power per installed unit. JG545A will supply up to 800 watts of PoE+ power per installed unit

to the extent needed by the installation.

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; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J: ROHS

Compliance; AS/NZS 60950-1; GB 4943

Emissions EN 55022 Class A; CISPR 22 Class A; EN 55024; ICES-003 Class A; CISPR 24; AS/NZS CISPR 22 Class

A; EN 61000-3-2; EN 61000-3-3; GB9254; VCCI-3 CLASS A; VCCI-4 CLASS A; ETSI EN 300 386;

FCC Part 15 (CFR 47) CLASS A; YD/T993

Notes 8-port Gig-T and SFP modules (JG313A and JG314A) are supported only in slot 1 of this switch.

Services Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for

details on the service-level descriptions and product numbers. For details about services and response

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

HP 5500-48G-PoE+-4SFP HI Switch with 2 Interface Slots (JG542A)

I/O ports and slots 48 RJ-45 autosensing 10/100/1000 PoE+ ports; Duplex: 10BASE-T/100BASE-TX: half or full;

1000BASE-T: full only

4 fixed Gigabit Ethernet SFP ports

2 SFP+ 10GbE ports

2 port expansion module slots

Supports a maximum of 70 autosensing 100/1000 ports, with optional module

Additional ports and

1 RJ-45 serial console port

slots

1 RJ-45 out-of-band management port

Power supplies

2 power supply slots

1 minimum power supply required (ordered separately)

Physical characteristics

17.32(w) x 18.11(d) x 1.72(h) in (43.99 x 46 x 4.37 cm) (1U height) **Dimensions**

23.15 lb (10.5 kg) Weight

Memory and processor

1 GB SDRAM; Packet buffer size: 6 MB, 512 MB flash

Mounting and enclosure

Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (hardware included)

Performance

1000 Mb Latency < 5 µs 10 Gbps Latency

Throughput up to 166.6 Mpps

Routing/Switching

capacity

224 Gbps

< 3 µs

Routing table size 12000 entries (IPv4), 6000 entries (IPv6)

MAC address table size 32000 entries

Environment Operating temperature 32°F to 113°F (0°C to 45°C)

Technical Specifications

Operating relative

humidity

5% to 95%, noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Low-speed fan: 43.1 dB, High-speed fan: 66.1 dB; ISO 7779 Acoustic

Electrical characteristics Frequency 50/60 Hz

> Maximum heat dissipation

666 BTU/hr (702.63 kJ/hr)

Voltage 100 - 240 VAC. rated

-48 to -60 VDC, rated

(depending on power supply chosen)

Maximum power rating 195 W

PoE power 1440 W PoE+

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.

PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies. Device supports 1 or 2 internal modular power supplies. JG544A will supply 435 watts of PoE+ power per installed unit. JG545A will supply up to 800 watts of PoE+

power per installed unit.

UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part Safety

2; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J; ROHS

Compliance; AS/NZS 60950-1; GB 4943

Emissions EN 55022 Class A; CISPR 22 Class A; EN 55024; ICES-003 Class A; CISPR 24; AS/NZS CISPR 22 Class

A; EN

61000-3-2; EN 61000-3-3; GB9254; VCCI-3 CLASS A; VCCI-4 CLASS A; ETSI EN 300 386; FCC Part

15 (CFR 47) CLASS A; YD/T993

Services Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for

details on the service-level descriptions and product numbers. For details about services and response

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

HP 5500-24G-SFP HI Switch with 2 Interface Slots (JG543A)

Ports 24 fixed Gigabit Ethernet SFP ports

> 4 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 SFP+ 10GbE ports

2 port expansion module slots

Supports a maximum of 12 autosensing 10/100/1000 ports, with optional module

Additional ports and

slots

1 RJ-45 serial console port

1 RJ-45 out-of-band management port

Power supplies 2 power supply slots

1 minimum power supply required (ordered separately)

Dimensions 17.32(w) x 14.17(d) x 1.72(h) in (43.99 x 35.99 x 4.37 cm) (1U height) Physical characteristics

> 16.53 lb (7.5 kg) Weight

1 GB SDRAM; Packet buffer size: 3 MB, 512 MB flash Memory and processor

Technical Specifications

Mounting and enclosure Mounts in an EIA-Standard 19-inch telco rack or equipment cabinet (hardware included)

Performance 1000 Mb Latency < 5 us

10 Gbps Latency < 3 us

up to 130.9 Mpps **Throughput**

Routing/Switching

capacity

Routing table size 12000 entries (IPv4), 6000 entries (IPv6)

176 Gbps

MAC address table size 32000 entries

Environment 32°F to 122°F (0°C to 50°C) Operating temperature

Operating relative

humidity

5% to 95%, noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 48.3 dB, High-speed fan: 54.0 dB; ISO 7779

Electrical characteristics Frequency 50/60 Hz

> Maximum heat dissipation

460 BTU/hr (485.3 kJ/hr)

Voltage 100 - 240 VAC. rated -48 to -60 VDC, rated

(depending on power supply chosen)

Maximum power rating 135 W

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; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J; ROHS

Compliance; AS/NZS 60950-1; GB 4943

Emissions EN 55022 Class A; CISPR 22 Class A; EN 55024; ICES-003 Class A; CISPR 24; AS/NZS CISPR 22 Class

A; EN

61000-3-2; EN 61000-3-3; GB9254; VCCI-3 CLASS A; VCCI-4 CLASS A; ETSI EN 300 386; FCC Part

15 (CFR 47) CLASS A; YD/T993

Notes 8-port Gig-T and SFP modules (JG313A and JG314A) are supported only in slot 1 of this switch.

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.

RFC 1213 MIB II

Standards and protocols **MIBs**

(applies to all products in series) RFC 1212 Concise MIB Definitions

RFC 1493 Bridge MIB **BGP** RFC 1657 BGP-4 MIB RFC 1657 Definitions of Managed Objects for BGPv4

RFC 1724 RIPv2 MIB RFC 1771 BGPv4 RFC 1757 Remote Network Monitoring MIB RFC 2385 BGP Session Protection via TCP MD5

RFC 1850 OSPFv2 MIB RFC 2858 BGP-4 Multi-Protocol Extensions RFC 2011 SNMPv2 MIB for IP RFC 2012 SNMPv2 MIB for TCP

Device management RFC 2013 SNMPv2 MIB for UDP

Technical Specifications

RFC 1157 SNMPv1/v2c

RFC 1305 NTPv3

RFC 1901 (Community based SNMPv2)

RFC 2452 MIB for TCP6

RFC 2454 MIB for UDP6

RFC 2573 (SNMPv3 Applications)

RFC 2576 (Coexistence between SNMP V1, V2, V3)

RFC 2819 (RMON groups Alarm, Event, History and

Statistics only)

RFC 3410 (Management Framework) RFC 3416 (SNMP Protocol Operations v2) RFC 3417 (SNMP Transport Mappings)

HTML and telnet management Multiple Configuration Files SNMP v3 and RMON RFC support

SSHv1/SSHv2 Secure Shell

General protocols

IEEE 802.1ad Q-in-Q

IEEE 802.1ak Multiple Registration Protocol (MRP) and Multiple RFC 2925 Ping MIB

VLAN Registration Protocol (MVRP)

IEEE 802.1D MAC Bridges

IEEE 802.1p Priority

IEEE 802.1Q (GVRP)

IEEE 802.1v VLAN classification by Protocol and Port

IEEE 802.1w Rapid Reconfiguration of Spanning Tree

IEEE 802.3ab 1000BASE-T

IEEE 802.3ac (VLAN Tagging Extension)

IEEE 802.3ad Link Aggregation (LAG)

IEEE 802.3ae 10-Gigabit Ethernet

IEEE 802.3af Power over Ethernet

IEEE 802.3at PoE+

IEEE 802.3az Energy Efficient Ethernet

IEEE 802.3i 10BASE-T

IEEE 802.3u 100BASE-X

IEEE 802.3x Flow Control

IEEE 802.3z 1000BASE-X

RFC 768 UDP

RFC 791 IP

RFC 792 ICMP

RFC 793 TCP

RFC 854 TELNET

RFC 925 Multi-LAN Address Resolution

RFC 950 Internet Standard Subnetting Procedure

RFC 951 BOOTP

RFC 1058 RIPv1

RFC 1122 Host Requirements

RFC 1141 Incremental updating of the Internet checksum

RFC 1191 Path MTU discovery

RFC 1213 Management Information Base for Network

Management of TCP/IP-based internets

RFC 1256 ICMP Router Discovery Protocol (IRDP)

RFC 1305 NTPv3

RFC 1350 TFTP Protocol (revision 2)

RFC 1519 CIDR

RFC 1542 BOOTP Extensions

RFC 2096 IP Forwarding Table MIB

RFC 2233 Interface 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-Target MIB

RFC 2574 SNMP USM MIB

RFC 2618 RADIUS Authentication Client MIB

RFC 2620 RADIUS Accounting Client MIB

RFC 2665 Ethernet-Like-MIB

RFC 2674 Definitions of Managed Objects for Bridges with

Traffic Classes, Multicast Filtering, and Virtual Extensions

RFC 2737 Entity MIB (Version 2)

RFC 2787 VRRP MIB

RFC 2819 RMON MIB

RFC 2863 The Interfaces Group MIB

RFC 3414 SNMP-User based-SM MIB

RFC 3415 SNMP-View based-ACM MIB

RFC 3621 Power Ethernet MIB

RFC 4113 UDP MIB

Network management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

IEEE 802.1D (STP)

RFC 1157 SNMPv1

RFC 1212 Concise MIB definitions

RFC 1215 Convention for defining traps for use with the SNMP

RFC 1757 RMON 4 groups: Stats, History, Alarms and Events

RFC 1901 SNMPv2 Introduction

RFC 1918 Private Internet Address Allocation

RFC 2373 Remote Network Monitoring Management Information

Base for High Capacity Networks

RFC 2571 An Architecture for Describing SNMP Management

Frameworks

RFC 2572 Message Processing and Dispatching for the Simple

Network Management Protocol (SNMP)

RFC 2573 SNMP Applications

RFC 2574 SNMPv3 User-based Security Model (USM)

RFC 2575 SNMPv3 View-based Access Control Model (VACM)

RFC 2576 Coexistence between SNMP versions

RFC 2578 SMIv2

RFC 2581 TCP6

RFC 2819 Remote Network Monitoring Management Information

RFC 2925 Definitions of Managed Objects for Remote Ping,

Traceroute, and Lookup Operations

RFC 3176 sFlow

RFC 3410 Introduction to Version 3 of the Internet-standard

Network Management Framework

RFC 3413 Simple Network Management Protocol (SNMP)

Applications

RFC 3414 SNMPv3 User-based Security Model (USM)

Technical Specifications

RFC 1723 RIP v2

RFC 1812 IPv4 Routing

RFC 1887 An Architecture for IPv6 Unicast Address Allocation

RFC 2131 DHCP

RFC 2138 Remote Authentication Dial In User Service (RADIUS)

RFC 2236 IGMP Snooping

RFC 2338 VRRP

RFC 2375 IPv6 Multicast Address Assignments

RFC 2616 Hypertext Transfer Protocol -- HTTP/1.1

RFC 2644 Directed Broadcast Control

RFC 2711 IPv6 Router Alert Option

RFC 2784 Generic Routing Encapsulation (GRE)

RFC 2865 Remote Authentication Dial In User Service (RADIUS)

RFC 2866 RADIUS Accounting

RFC 3209 RSVP-TE Extensions to RSVP for LSP Tunnels

RFC 3246 Expedited Forwarding PHB

RFC 3410 Applicability Statements for SNMP

RFC 3414 User-based Security Model (USM) for version 3 of

the Simple Network Management Protocol (SNMPv3)

RFC 3415 View-based Access Control Model (VACM) for the

Simple Network Management Protocol (SNMP)

RFC 3417 Transport Mappings for the Simple Network

Management Protocol (SNMP)

RFC 3484 Default Address Selection for Internet Protocol version 6 (IPv6)

RFC 3493 Basic Socket Interface Extensions for IPv6

RFC 3542 Advanced Sockets Application Program Interface (API) for IPv6

RFC 3587 IPv6 Global Unicast Address Format

RFC 3596 DNS Extensions to Support IP Version 6

RFC 3623 Graceful OSPF Restart

RFC 3704 Unicast Reverse Path Forwarding (URPF)

RFC 3768 Virtual Router Redundancy Protocol (VRRP)

RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6

RFC 3812 Multiprotocol Label Switching (MPLS) Traffic Engineering (TE) Management Information Base (MIB) RFC 4090 Fast Reroute Extensions to RSVP-TE for LSP

RFC 4113 Management Information Base for the User Datagram Protocol (UDP)

RFC 4213 Basic IPv6 Transition Mechanisms

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 4364 BGP/MPLS IP Virtual Private Networks (VPNs)

RFC 4443 Internet Control Message Protocol (ICMPv6) for the

Internet Protocol Version 6 (IPv6) Specification

RFC 4447 Pseudowire Setup and Maintenance Using the Label Distribution Protocol (LDP)

RFC 4594 Configuration Guidelines for DiffServ Service Classes

RFC 4762 Virtual Private LAN Service (VPLS) Using Label

RFC 3415 SNMPv3 View-based Access Control Model VACM) ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3

OSPF

RFC 1587 OSPF NSSA

RFC 1850 OSPFv2 Management Information Base (MIB), traps

RFC 2328 OSPFv2

RFC 2370 OSPF Opaque LSA Option

QoS/CoS

IEEE 802.1P (CoS)

RFC 2474 DSCP DiffServ

RFC 2475 DiffServ Architecture

RFC 2597 DiffServ Assured Forwarding (AF)

RFC 2598 DiffServ Expedited Forwarding (EF)

RFC 2697 A Single Rate Three Color Marker

RFC 2698 A Two Rate Three Color Marker

RFC 4594 Configuration Guidelines for DiffServ Service Classes

Security

IEEE 802.1X Port Based Network Access Control

RFC 1492 TACACS+

RFC 1918 Address Allocation for Private Internets

RFC 2865 RADIUS Authentication

RFC 2866 RADIUS Accounting

RFC 3579 RADIUS Support For Extensible Authentication

Protocol (EAP)

Access Control Lists (ACLs)

MAC Authentication

Port Security

SSHv2 Secure Shell

MPLS

RFC 2961 RSVP Refresh Overhead Reduction Extensions

RFC 3031 Multiprotocol Label Switching Architecture

RFC 3032 MPLS Label Stack Encoding

RFC 3036 LDP Specification

RFC 4762 Virtual Private LAN Service (VPLS) Using Label

Distribution Protocol (LDP) Signaling

Network management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

IEEE 802.1D (STP)

RFC 1157 SNMPv1

RFC 1212 Concise MIB definitions

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RFC 1757 RMON 4 groups: Stats, History, Alarms and Events

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RFC 2373 Remote Network Monitoring Management Information

Base for High Capacity Networks

RFC 2571 An Architecture for Describing SNMP Management Frameworks

RFC 2572 Message Processing and Dispatching for the Simple

Technical Specifications

Distribution Protocol (LDP) Signaling

802.1r - GARP Proprietary Attribute Registration Protocol (GPRP)

IP multicast

RFC 2236 IGMPv2

RFC 2710 Multicast Listener Discovery (MLD) for IPv6

RFC 2858 Multiprotocol Extensions for BGP-4

RFC 3376 IGMPv3

RFC 3569 An Overview of Source-Specific Multicast (SSM)

RFC 3618 Multicast Source Discovery Protocol (MSDP)

RFC 3973 PIM Dense Mode

RFC 4601 PIM Sparse Mode

IPv6

RFC 1881 IPv6 Address Allocation Management

RFC 1887 IPv6 Unicast Address Allocation Architecture

RFC 1981 IPv6 Path MTU Discovery

RFC 2080 RIPng for IPv6

RFC 2373 IPv6 Addressing Architecture

RFC 2375 IPv6 Multicast Address Assignments

RFC 2460 IPv6 Specification

RFC 2461 IPv6 Neighbor Discovery

RFC 2462 IPv6 Stateless Address Auto-configuration

RFC 2463 ICMPv6

RFC 2464 Transmission of IPv6 over Ethernet Networks

RFC 2473 Generic Packet Tunneling in IPv6

RFC 2475 IPv6 DiffServ Architecture

RFC 2710 Multicast Listener Discovery (MLD) for IPv6

RFC 2740 OSPFv3 for IPv6

RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers

RFC 2925 Definitions of Managed Objects for Remote

Ping, Traceroute, and Lookup Operations (Ping only)

RFC 3162 RADIUS and IPv6

RFC 3306 Unicast-Prefix-based IPv6 Multicast Addresses

RFC 3307 IPv6 Multicast Address Allocation

RFC 3315 DHCPv6 (client and relay)

RFC 3484 Default Address Selection for IPv6

RFC 3493 Basic Socket Interface Extensions for IPv6

RFC 3513 IPv6 Addressing Architecture

RFC 3542 Advanced Sockets API for IPv6

RFC 3587 IPv6 Global Unicast Address Format

RFC 3596 DNS Extension for IPv6

RFC 3810 MLDv2 for IPv6

RFC 4113 MIB for UDP

RFC 4443 ICMPv6

RFC 4541 IGMP & MLD Snooping Switch

RFC 5340 OSPFv3 for IPv6

Network Management Protocol (SNMP)

RFC 2573 SNMP Applications

RFC 2574 SNMPv3 User-based Security Model (USM)

RFC 2575 SNMPv3 View-based Access Control Model (VACM)

RFC 2576 Coexistence between SNMP versions

RFC 2578 SMIv2

RFC 2581 TCP6

RFC 2819 Remote Network Monitoring Management Information

Base

RFC 2925 Definitions of Managed Objects for Remote Ping,

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RFC 2865 RADIUS Authentication

RFC 2866 RADIUS Accounting

RFC 3579 RADIUS Support For Extensible Authentication

Protocol (EAP)

Access Control Lists (ACLs)

MAC Authentication

Port Security

SSHv2 Secure Shell

Accessories

HPE 5500 HI Switch Series accessories

Modules	
HPE 5500 2-port 10GbE XFP Module	JD359B
HPE 5500 2-port 10GbE Local Connect Module	JD360B
HPE 5500 1-port 10GbE XFP Module	JD361B
HPE FlexNetwork 5500/4800 2-port GbE SFP Module	JD367A
HPE FlexNetwork 5500/5120 2-port 10GbE SFP+ Module	JD368B
HPE FlexNetwork 5500 8-port Gig-T Module	JG313A
HPE FlexNetwork 5500 8-port SFP Module	JG314A
HPE FlexNetwork 5500/5120 2-port 10GBASE-T Module	JG535A
Transceivers	
HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X110 100M SFP LC LX Transceiver	JD120B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE 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 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 LH 80km Transceiver	JG915A
HPE X130 10G XFP LC LR Single Mode 10km 1310nm Transceiver	JD108B
HPE X130 10G XFP LC SR Transceiver	JD117B
HPE X130 10G XFP LC ZR Single Mode 80km 1550nm Transceiver	JD107A
HPE X135 10G XFP LC ER Transceiver	JD121A
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 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

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Accessories	
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
HPE X230 Local Connect 50cm CX4 Cable	JD363B
HPE X230 Local Connect 100cm CX4 Cable	JD364B
HPE X230 CX4 to CX4 3m Cable	JD365A
HP 5500-24G-4SFP HI Switch with 2 Interface Slots (JG311A)	
HPE 5500 150WAC Power Supply	JD362A
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
HP 5500-48G-4SFP HI Switch with 2 Interface Slots (JG312A)	
HPE 5500 150WAC Power Supply	JD362A
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
HP 5500-24G-PoE+-4SFP HI Switch with 2 Interface Slots (JG541A)	
HPE X362 720W 100-240VAC to 56VDC PoE Power Supply	JG544A
HPE X362 1110W 115-240VAC to 56VDC PoE Power Supply	JG545A
HP 5500-48G-PoE+-4SFP HI Switch with 2 Interface Slots (JG542A)	
HPE X362 720W 100-240VAC to 56VDC PoE Power Supply	JG544A
HPE X362 1110W 115-240VAC to 56VDC PoE Power Supply	JG545A
HP 5500-24G-SFP HI Switch with 2 Interface Slots (JG543A)	
HPE 5500 150WAC Power Supply	JD362A
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

Summary of Changes

Date	Version History	Action	Description of Change:
03-Oct-2016	From Version 27 to 28	Added	SKUs added: JD362B, JD366B
		Changed	Updates made on Overview and Technical Specifications
01-Dec-2015	From Version 25 to 26	Changed	Overview and Technical Specifications updated
30-Mar-2015	From Version 24 to 25	Added	New transceiver added: JG915A
		Changed	Changes made on Technical Specifications
01-Dec-2014	From Version 23 to 24	Changed	Warranty and support updated
18-Aug-2014	From Version 22 to 23	Changed	Technical Specifications updated, Transceivers updated
03-Jul-2014	From Version 21 to 22	Changed	Configuration menu updated.
10-Jun-2014	From Version 20 to 21	Added	Added Switch Enclosure Options to Configuration.
15-Apr-2014	From Version 19 to 20	Changed	Notes section for Modules was revised in Configuration.
19-Mar-2014	From Version 18 to 19	Changed	Transceivers were revised in Configuration.
16-Jan-2014	From Version 17 to 18	Changed	Key features, Product overview, and Features and benefits were revised.
17-Dec-2013	From Version 16 to 17	Changed	Modules was revised in Configuration.
09-Dec-2013	From Version 15 to 16	Changed	Notes for Modules was revised in Configuration.
12-Nov-2013	From Version 14 to 15	Changed	Box Level Integration CTO Models, Rack Level Integration CTO Models, Internal Power Supplies, Modules, and Cables were revised in Configuration.
30-Sep-2013	From Version 13 to 14	Removed	HP X110 100M SFP LC FX Dual Mode Transceiver and HP X110 100M SFP LX LC Dual Mode Transceiver were removed from Configuration
27-Sep-2013	From Version 11 to 13	Changed	Configuration was revised.
26-Jul-2013	From Version 10 to 11	Changed	Changes made in the Features and benefits and Standards and protocols sections.
05-Jul-2013	From Version 9 to 10	Changed	Changes made in the Configuration section.
27-Jun-2013	From Version 8 to 9	Changed	Standards and protocols was revised
21-Jun-2013	From Version 7 to 8	Changed	Layer 2 switching and Security were revised in Features and Benefits
10 1 65:5			Standards and protocols was revised in Technical Specifications
10-Jun-2013	From Version 6 to 7	Added	Models and Specifications: Several new models were added.
		Changed	Updates were made to Configuration, Features and Benefits, the specifications for each model, and the Accessories.
22-Apr-2013	From Version 5 to 6	Added	Overview: Added images.
25-Mar-2013	From Version 4 to 5	Added	Added the Configuration section.

Summary of Changes

06-Jul-2012	From Version 3 to 4	Changed	Updates were made to Features and Benefits, the specifications for each model, and the Accessories.
30-Mar-2012	From Version 2 to 3	Changed	Additions were made to the specifications for each model.
13-Feb-2012	From Version 1 to 2	Changed	QuickSpecs were reposted for the proper announcement date.

Summary of Changes



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