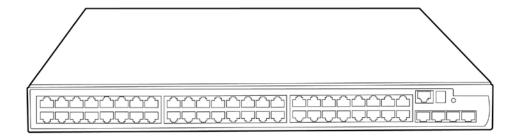
QuickSpecs

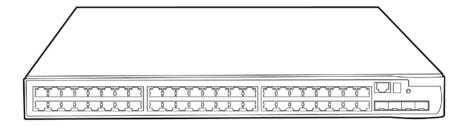
HPE 5120 EI Switch Series

Overview

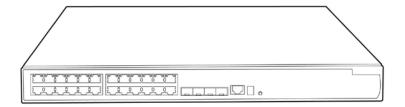
HPE 5120 EI Switch Series



HP 5120-48G EI Switch with 2 Interface Slots



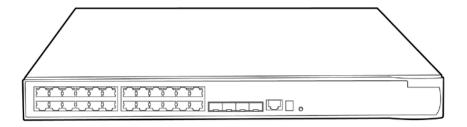
HP 5120-48G EI Switch



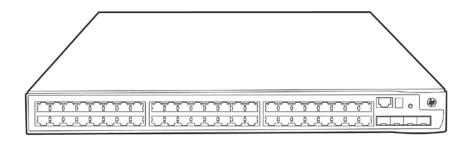
HP 5120-24G EI Switch with 2 Interface Slots



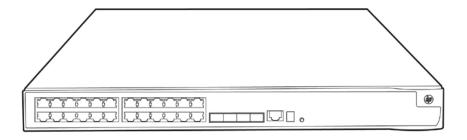
Overview



HP 5120-24G EI Switch



HP 5120-48G-PoE+ El Switch with 2 Interface Slots



HP 5120-24G-PoE+ El Switch with 2 Interface Slots

Models

HP 5120-48G EI Switch with 2 Interface Slots	JE069A
HP 5120-48G EI Switch	JE067A
HP 5120-24G EI Switch with 2 Interface Slots	JE068A
HP 5120-24G EI Switch	JE066A
HP 5120-48G-PoE+ El Switch with 2 Interface Slots	JG237A
HP 5120-24G-PoE+ EI Switch with 2 Interface Slots	JG236A

Key features

Overview

- High scalability for investment protection
- Support for multiple services
- Comprehensive security control policies
- Diversified Quality of Service (QoS) policies
- Excellent manageability

Product overview

The HPE 5120 El Switch Series is comprised of Gigabit Ethernet switches that support static Layer 3 routing, diversified services, and IPv6 forwarding, as well as provide up to four 10GbE Ethernet extended interfaces. Unique Intelligent Resilient Fabric (IRF) technology creates a virtual fabric by managing several switches as one logical device, which increases network resilience, performance, and availability, while reducing operational complexity. These switches provide Gigabit Ethernet access and can be used at the edge of a network or to connect server clusters in data centers. High scalability provides investment protection with two expansion slots, each of which can support two 10GbE expansion modules. High availability, simplified management, and comprehensive security control policies are among the key features that distinguish this series.

Features and benefits

Quality of Service (QoS)

• Broadcast control

allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic

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 port, VLAN, or whole switch

Powerful QoS feature

supports the following congestion actions: strict priority (SP) queuing, weighted round robin (WRR), and SP+WRR

Traffic policing

supports Committed Access Rate (CAR) and line rate

Management

• Friendly port names

allows assignment of descriptive names to ports

• 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

Command authorization

leverages HWTACACS to link a custom list of CLI commands to an individual network administrator's login; also provides an audit trail

Secure Web GUI

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

• Multiple configuration files

stores easily to the flash image

Complete session logging

provides detailed information for problem identification and resolution

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

• IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

advertises and receives management information from adjacent devices on a network, facilitating easy mapping by

Overview

network

management applications

• sFlow (RFC 3176)

provides scalable ASIC-based wirespeed network monitoring and accounting with no impact on network performance; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes

Management VLAN

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

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

Device Link Detection Protocol (DLDP)

monitors a cable between two switches and shuts down the ports on both ends if the cable is broken, which prevents network problems such as loops

• IPv6 management

provides future-proof networking because the switch is capable of being managed whether the attached network is running IPv4 or IPv6; supports pingv6, tracertv6, Telnetv6, TFTPv6, DNSv6, syslogv6, FTPv6, SNMPv6, DHCPv6, and RADIUS for IPv6

Troubleshooting

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

Connectivity

Auto-MDIX

automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports

Flow control

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

Jumbo packet support

supports up to 9216-byte frame size to improve the performance of large data transfers

High-density connectivity

provides up to 48 fixed 10/100/1000BASE-T ports in a Layer 2/Layer 3 switch

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

• 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 locatio

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

High-bandwidth CX4 local stacking

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

Performance

Nonblocking architecture

up to 192 Gb/s nonblocking switching fabric provides wirespeed switching with up to 143 million pps throughput

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

Overview

Resiliency and high availability

Separate data and control paths

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

External redundant power supply

provides high reliability

Smart link

allows 50 ms failover between links

Spanning Tree/MSTP, RSTP

provides redundant links while preventing network loops

• Rapid Ring Protection Protocol (RRPP)

connects multiple switches in a high-performance ring using standard Ethernet technology; traffic can be rerouted around the ring in less than 50 ms, reducing the impact on traffic and applications

• 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

Layer 2 switching

• 16K MAC address table

provides access to many Layer 2 devices

VLAN support and tagging

supports IEEE 802.1Q with 4,094 simultaneous VLAN IDs

• GARP VLAN Registration Protocol

allows automatic learning and dynamic assignment of VLANs

• IEEE 802.1ad QinQ and selective QinQ

increase the scalability of an Ethernet network by providing a hierarchical structure; connect multiple LANs on a highspeed

campus or metro network

• 10GbE port aggregation

allows grouping of ports to increase overall data throughput to a remote device

• 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

• Per-VLAN Spanning Tree Plus (PVST+)

allows each VLAN to build a separate spanning tree to improve link bandwidth usage in network environments with multiple VLANs

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 Laver 2 network

Dynamic Host Configuration Protocol (DHCP)

simplifies the management of large IP networks; supports client; DHCP Relay enables DHCP operation across subnets

Loopback interface address

defines an address that can always be reachable, improving diagnostic capability

• User Datagram Protocol (UDP) helper function

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

Route maps

Overview

provide more control during route redistribution; allow filtering and altering of route metrics

Layer 3 routing

Static IP routing

provides manually configured routing for both IPv4 and IPv6 networks

Security

Access control lists (ACLs)

provides IP Layer 2 to Layer 4 traffic filtering; supports global ACL, VLAN ACL, port ACL, and IPv6 ACL

IEEE 802.1X

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

MAC-based authentication

client is authenticated with the RADIUS server based on the client's MAC address

Identity-driven security and access control

• Per-user ACLs

permits or denies 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

Automatic VLAN assignment

automatically assigns users to the appropriate VLAN based on their identities

• Secure management access

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

Secure FTP

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

Guest VLAN

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

• Endpoint Admission Defense (EAD)

provides security policies to users accessing a network

Port security

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

Port isolation

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

• STP BPDU port protection

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

STP root guard

protects the root bridge from malicious attacks or configuration mistakes

DHCP protection

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

IP source guard

helps prevent IP spoofing attacks

Dynamic ARP protection

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

RADIUS/HWTACACS

eases switch management security administration by using a password authentication server

Convergence

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

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

LLDP-MED

Overview

is a standard extension that automatically configures network devices, including LLDP-capable IP phones

LLDP-CDP compatibility

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

• IEEE 802.3af Power over Ethernet

provides up to 15.4 W per port to PoE-powered devices such as IP phones, wireless access points, and video cameras

PoE allocations

supports multiple methods (automatic, IEEE 802.3af class, LLDP-MED, or user-specified) to allocate PoE power for more efficient energy savings

Voice VLAN

automatically assigns VLAN and priority for IP phones, simplifying network configuration and maintenance

• IP multicast snooping (data-driven IGMP)

prevents flooding of IP multicast traffic

Device support

Cisco prestandard PoE support

detects and provides power to Cisco's prestandard PoE devices such as wireless LAN access points and IP phones

Additional information

Green IT and power

improves energy efficiency through the use of the latest advances in silicon development; shuts off unused ports and utilizes

variable-speed fans, reducing energy costs

• Green initiative support

provides support for RoHS and WEEE regulations

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

HP 5120-24G EI Switch JE066A 24 RJ-45 autosensing 10/100/1000 ports See

- Configuration 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP **NOTE:** 1, 3 min=0 \ max=4 SFP Transceivers
- O port expansion module slots
- Power supply included
- 1U Height

PDU Cable NA/MEX/TW/JP JE066A#B2B

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

PDU Cable ROW JE066A#B2C

C15 PDU Jumper Cord (ROW)

HP 5120-24G EI Switch with 2 Slots 24 RJ-45 autosensing 10/100/1000 ports

4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP Configuration min=0 \ max=4 SFP Transceivers **NOTE:** 1, 3

2 port expansion module slots Power supply included

1U - Height

PDU Cable NA/MEX/TW/JP JE068A#B2B

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

PDU Cable ROW JE068A#B2C

• C15 PDU Jumper Cord (ROW)

HP 5120-24G-PoE+ EI Switch w/2 Intf Slts

24 RJ-45 autosensing 10/100/1000 ports

4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP

min=0 \ max=4 SFP Transceivers

2 port expansion module slots

Power supply included

1U - Height

JG236A

Configuration

NOTE: 1, 3

See

JE068A

See

HPE 5120 EI Switch Series QuickSpecs Configuration PDU Cable NA/MEX/TW/JP JG236A#B2B C15 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JG236A#B2C • C15 PDU Jumper Cord (ROW) HP 5120-48G EI Switch JE067A 48 RJ-45 autosensing 10/100/1000 ports See 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP Configuration min=0 \ max=4 SFP Transceivers **NOTE:** 1, 3 O port expansion module slots Power supply included 1U - Height PDU Cable NA/MEX/TW/JP JE067A#B2B C15 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JE067A#B2C • C15 PDU Jumper Cord (ROW) JE069A HP 5120-48G EI Switch with 2 Slots 48 RJ-45 autosensing 10/100/1000 ports See Configuration 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP min=0 \ max=4 SFP Transceivers **NOTE:** 1, 3 2 port expansion module slots Power supply included 1U - Height PDU Cable NA/MEX/TW/JP JE069A#B2B C15 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JE069A#B2C C15 PDU Jumper Cord (ROW) HP 5120-48G-PoE+ El Switch w/2 Intf Slts JG237A 48 RJ-45 autosensing 10/100/1000 ports See Configuration 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP

min=0 \ max=4 SFP Transceivers 2 port expansion module slots

Power supply included

Page 9

NOTE: 1, 3

Configuration

• 1U - Height

PDU Cable NA/MEX/TW/JP

JG237A#B2B

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

PDU Cable ROW

JG237A#B2C

C15 PDU Jumper Cord (ROW)

Configuration Rules:

Note 1 The following Transceivers install into this Switch

HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X120 1G SFP LC BX 10-U Transceiver	JD098B
HP X120 1G SFP LC BX 10-D Transceiver	JD099B
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HP X125 1G SFP LC LH70 Transceiver	JD063B

Note 3 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord) or #B2E. (See Localization Menu)

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)

Japan of #B2c flow. (Walson Dullan B2b of B2c for flow Level C To)

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)

Box Level Integration CTO Models

CTO Solution Sku

Remark

HP 51xx CTO Switch Solution

JG706A

SSP trigger sku

CTO Switch Chassis

HP 5120-24G EI Switch - CTO

JE066A

See

- 24 RJ-45 autosensing 10/100/1000 ports
- 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP
- min=0 \ max=4 SFP Transceivers
- 0 port expansion module slots

Configuration **NOTE:** 1, 3, 5,7

Configuration

- 1 Power Supply Included
- 1U Height

PDU Cable NA/MEX/TW/JP

JE066A#B2B

• C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU Cable ROW

JE066A#B2C

• C15 PDU Jumper Cord (ROW)

HP 5120-24G EI Switch with 2 Slots - CTO

JE068A

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

See

• 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP

Configuration NOTE: 1, 3, 5,7

- min=0 \ max=4 SFP Transceivers
- 2 port expansion module slots1 Power Supply Included
- 1U Height

PDU Cable NA/MEX/TW/JP

JE068A#B2B

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

PDU Cable ROW

JE068A#B2C

C15 PDU Jumper Cord (ROW)

HP 5120-24G-PoE+ El Switch w/2 Intf Slts - CTO

JG236A

See

- 24 RJ-45 autosensing 10/100/1000 ports
- 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP

Configuration NOTE: 1, 3, 5,7

- min=0 \ max=4 SFP Transceivers
 2 port expansion module slots
- 1 Power Supply Included
- 1U Height

PDU Cable NA/MEX/TW/JP

JG236A#B2B

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

PDU Cable ROW

JG236A#B2C

• C15 PDU Jumper Cord (ROW)

HP 5120-48G EI Switch - CTO

JE067A

48 RJ-45 autosensing 10/100/1000 ports

Configuration NOTE: 1, 3, 4,

4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP
 min=0 \ max=4 SFP Transceivers

Page 11

See

QuickSpecs **HPE 5120 EI Switch Series** Configuration 5,7 0 - port expansion module slots 1 - Power Supply Included 1U - Height PDU Cable NA/MEX/TW/JP JE067A#B2B C15 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JE067A#B2C • C15 PDU Jumper Cord (ROW) HP 5120-48G EI Switch with 2 Slots - CTO JE069A See 48 RJ-45 autosensing 10/100/1000 ports 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP Configuration min=0 \ max=4 SFP Transceivers **NOTE:** 1, 3, 5,7 2 - port expansion module slots 1 - Power Supply Included 1U - Height PDU Cable NA/MEX/TW/JP JE069A#B2B C15 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JE069A#B2C • C15 PDU Jumper Cord (ROW) HP 5120-48G-PoE+ EI Switch w/2 Intf Slts - CTO JG237A 48 RJ-45 autosensing 10/100/1000 ports See Configuration 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP **NOTE:** 1, 3, 5,7 min=0 \ max=4 SFP Transceivers 2 - port expansion module slots 1 - Power Supply Included 1U - Height PDU Cable NA/MEX/TW/JP JG237A#B2B C15 PDU Jumper Cord (NA/MEX/TW/JP) PDU Cable ROW JG237A#B2C

Configuration Rules:

C15 PDU Jumper Cord (ROW)

Configuration

HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X120 1G SFP LC BX 10-U Transceiver	JD098B
HP X120 1G SFP LC BX 10-D Transceiver	JD099B
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HP X125 1G SFP LC LH70 Transceiver	JD063B

Note 3 Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord) or

#B2E. (See Localization Menu)

Note 5 If this Switch is selected, Then a Minimum of 1 factory integrated accessory must be ordered and integrated to CTO chassis. See Menu below, option must have a #0D1 to be integrated to the CTO Chassis.

Note 7 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 JG706A - HP 51xx CTO Enablement. (Min 1/Max 1 Switch per SSP)

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)

Rack Level Integration CTO Models

Switch Chassis

HP 5120-24G EI Switch JE066A

24 RJ-45 autosensing 10/100/1000 ports

4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP Configuration **NOTE:** 1, 3, 10

min=0 \ max=4 SFP Transceivers

O port expansion module slots

- Power supply included
- 1U Height

PDU Cable NA/MEX/TW/JP

JE066A#B2B

See

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

PDU Cable ROW JE066A#B2C

C15 PDU Jumper Cord (ROW)

HP 5120-24G EI Switch with 2 Slots

JE068A

See

24 RJ-45 autosensing 10/100/1000 ports

Configuration

4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP

NOTE: 1, 3, 10

min=0 \ max=4 SFP Transceivers

Configuration

- 2 port expansion module slots
- Power supply included
- 1U Height

PDU Cable NA/MEX/TW/JP

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

PDU Cable ROW JE068A#B2C

• C15 PDU Jumper Cord (ROW)

HP 5120-24G-PoE+ EI Switch w/2 Intf Slts JG236A

24 RJ-45 autosensing 10/100/1000 ports

4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP Configuration **NOTE:** 1, 3, 10

min=0 \ max=4 SFP Transceivers

2 port expansion module slots

Power supply included

1U - Height

PDU Cable NA/MEX/TW/JP JG236A#B2B

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

PDU Cable ROW JG236A#B2C

• C15 PDU Jumper Cord (ROW)

HP 5120-48G EI Switch JE067A

48 RJ-45 autosensing 10/100/1000 ports

Configuration 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP **NOTE:** 1, 3, 10

min=0 \ max=4 SFP Transceivers

O port expansion module slots Power supply included

1U - Height

PDU Cable NA/MEX/TW/JP JE067A#B2B

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

PDU Cable ROW JE067A#B2C

C15 PDU Jumper Cord (ROW)

HP 5120-48G EI Switch with 2 Slots

48 RJ-45 autosensing 10/100/1000 ports

4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP

Configuration

JE069A

JE068A#B2B

See

See

Page 14

See

Configuration

min=0 \ max=4 SFP Transceivers
 NOTE: 1, 3, 10

• 2 port expansion module slots

- Power supply included
- 1U Height

PDU Cable NA/MEX/TW/JP

JE069A#B2B

• C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU Cable ROW

JE069A#B2C

• C15 PDU Jumper Cord (ROW)

HP 5120-48G-PoE+ EI Switch w/2 Intf Slts

JG237A

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

See

• 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP

Configuration NOTE: 1, 3, 10

- min=0 \ max=4 SFP Transceivers2 port expansion module slots
- Power supply included
- 1U Height

PDU Cable NA/MEX/TW/JP

JG237A#B2B

• C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU Cable ROW

JG237A#B2C

• C15 PDU Jumper Cord (ROW)

Configuration Rules:

Note 1 The following Transceivers install into this Switch:

HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X120 1G SFP LC BX 10-U Transceiver	JD098B
HP X120 1G SFP LC BX 10-D Transceiver	JD099B
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HP X125 1G SFP LC LH70 Transceiver	JD063B

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

Configuration

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)

Switch Enclosure Options

External/Redundant Power Supplies

HP RPS 800 Redundant Power Supply

See

JD183A

• Height = 1U

Configuration

• includes 1 x c13, 800w

NOTE: 2, 3

HP RPS1600 Redundant Power System

JG136A

Height = 1U

See

• includes 1 x c13, 1600w and Power Supply port

Configuration **NOTE:** 2, 3

HP RPS1600 1600W AC Power Supply

JG137A

Installs into JG136A only

See Configuration

NOTE: 1

Configuration Rules:

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

Note 2 Localization required. (See Localization Menu for list.)

Note 3 Only 1 JD183A or JG136A can be connected per switch.

External/Redundant Power Cables

HP X290 1000 A JD5 2m RPS Cable JD187A

HP X290 500/800 1m RPS Cable JD190A

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

Modules

(Switch JE066x and JE067x) No Modules supported

(All other Switches) System (std 0 // max 2) User Selection (min 0 // max 2)

HP 5500 2-port 10GbE XFP Module

JD359B

Configuration

Comigara		
• min=	0 \ max=2 XFP Transceivers	See
- 111111	O (Max 270) Transcervers	Configuration
		NOTE: 2, 5, 6
HP 5500 2-pc	ort 10GbE Local Connect Mod	JD360B
•	0 \ max=2 CX4 Cables	See
	- (= 5 5	Configuration
		NOTE: 4, 5, 6
HP 5500 1-pc	ort 10GbE XFP Module	JD361B
• min=	0 \ max=1 XFP Transceivers	See
		Configuration
		NOTE: 2, 5, 6
HP 5500/512	0 2-port 10GbE SFP+ Module	JD368B
• min=	0 \ max=2 SFP+ Transceivers	See
		Configuration
		NOTE: 1, 5, 6
HP 5500/480	00 2-port GbE SFP Module	JD367A
• min=	0 \ max=2 SFP Transceivers	See
		Configuration
		NOTE: 3, 5, 6
HP 5500/512	0 2p 10GBASE-T Module	JG535A
 No T 	ransceivers	See
		Configuration
		NOTE: 5, 6
Configuration	Rules:	
Note 1	The following Transceivers install into this Module: (Use #0D1 if switch is CTO)	
	HP X130 10G SFP+ LC ER 40km Transceiver	JG234A
	HP X130 10G SFP+ LC SR Transceiver	JD092B
	HP X130 10G SFP+ LC LRM Transceiver	JD093B
	HP X130 10G SFP+ LC LR Transceiver	JD094B
	HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
	HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
	HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
	HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
	·	
	HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
	HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
Nata 2	The fellowing Tangensing install into this Madula (Use #0D1 if switch is CTO)	
Note 2	The following Transceivers install into this Module: (Use #0D1 if switch is CTO)	
	HP X135 10G XFP LC ER Transceiver	JD121A
	HP X130 10G XFP LC LR Single Mode 10km 1310nm Transceiver	JD108B
	HP X130 10G XFP LC SR Transceiver	JD117B
Noto 7	The following Transceivers install into this Madule: (Lies #001 if quitable CTO)	
Note 3	The following Transceivers install into this Module: (Use #0D1 if switch is CTO)	
	HP X120 1G SFP LC SX Transceiver	JD118B
	HP X120 1G SFP LC LX Transceiver	JD119B
	HP X120 1G SFP RJ45 T Transceiver	JD089B
	HP X120 1G SFP LC BX 10-U Transceiver	JD098B
	HP X120 1G SFP LC BX 10-D Transceiver	JD099B
		Page 17

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Note 4

HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HP X125 1G SFP LC LH70 Transceiver	JD063B
The following Cables install into this Module: (Use #B01 if switch is CTO)	
HP X230 Local Connect 50cm CX4 Cable	JD363B
HP X230 Local Connect 100cm CX4 Cable	JD364B
HP X230 CX4 to CX4 3m Cable	JD365A
NOTE: Two JD365A - HP X230 CX4 to CX4 3m Cable should be added by default if Module is selected.	

Note 5 If factory intergrated into the switch, This Module must be ordered as #0D1 when the switch is

not Factory Racked

Note 6 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

HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X120 1G SFP LC BX 10-U Transceiver	JD098B
HP X120 1G SFP LC BX 10-D Transceiver	JD099B
HP X120 1G SFP LC LH40 1550nm XCVR	JD062A
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X125 1G SFP LC LH70 Transceiver	JD063B
SFP+ Transceivers	
HP X130 10G SFP+ LC ER 40km Transceiver	JG234A
HP X130 10G SFP+ LC SR Transceiver	JD092B
HP X130 10G SFP+ LC LRM Transceiver	JD093B
HP X130 10G SFP+ LC LR Transceiver	JD094B

QuickSpecs	HPE 5120 El Switch Series
Configuration	
HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
XFP Transceivers	
HP X130 10G XFP LC LR Single Mode 10km 1310nm Transceiver	JD108B
HP X130 LC SR XFP Transceiver	JD117B
HP X135 10G XFP LC ER Transceiver	JD121A
Cables	
Local Connect Cables	
HP X230 Local Connect 50cm CX4 Cable	JD363B
HP X230 Local Connect 100cm CX4 Cable	JD364B
HP X230 CX4 to CX4 3m Cable	JD365A
HP X230 Local Connect 50cm CX4 Cable	JD363B
HP X230 Local Connect 100cm CX4 Cable	JD364B
HP X230 CX4 to CX4 3m Cable	JD365A
Multi-Mode Cables	
HP .5m Multi-mode OM3 LC/LC FC Cable	AJ833A
HP 1m Multi-mode OM3 LC/LC FC Cable	AJ834A
HP 2 m Multimode OM3 LC/LC FC Cable	AJ835A
HP 5 m Multimode OM3 LC/LC FC Cable	AJ836A
HP 15 m Multimode OM3 LC/LC FC Cable	AJ837A
HP 30 m Multimode OM3 LC/LC FC Cable	AJ838A Page 19

Configuration

HP 50 m Multimode OM3 LC/LC FC Cable	AJ839A
HP Premier Flex LC/LC OM4 2f 1m Cbl	QK732A
HP Premier Flex LC/LC OM4 2f 2m Cbl	QK733A
HP Premier Flex LC/LC OM4 2f 5m Cbl	QK734A
HP Premier Flex LC/LC OM4 2f 15m Cbl	QK735A
HP Premier Flex LC/LC OM4 2f 30m Cbl	QK736A
HP Premier Flex LC/LC OM4 2f 50m Cbl	QK737A

Opacity Shield Kit

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

HP 5500/5120 Gig-T EI Opcty Shld Kit

JG557A See

Supported on JG245A, JG246A

Configuration NOTE: 1

HP 5500/5120 Gig-T PoE EI Opcty Shld Kit

Supported on JG247A, JG248A

See Configuration

NOTE: 1

JG559A

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)

HP 12mm x 60mm Tmpr-Evidence (30) Lbl

JG585A

Supported on JG557A or JG559A

See Configuration

NOTE: 1

Configuration Rules:

Note 1 If selected with a CTO Switch Solution, Quantity 1 of JG557A#B01 or JG559A#B01 must also be ordered.

Remarks: Each JG557A or JG559A would use 1 of JG585A

Technical Specifications

HP 5120-48G EI Switch with 2 Interface Slots (JE069A)

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); Media Type: Auto-MDIX; Duplex: 10BASE-

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

4 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP

2 port expansion module slots 1 RJ-45 serial console port

Supports a maximum of 48 autosensing 10/100/1000 ports

Physical characteristics Dimensions $17.32(w) \times 11.81(d) \times 1.72(h) \text{ in } (44 \times 30 \times 4.36 \text{ cm}) (10 \text{ height})$

192 Gbps

Weight 11.02 lb. (5 kg)

Memory and processor 128 MB SDRAM; Packet buffer size: 4 MB, 16 MB flash

MountingMounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)

Performance 1000 Mb Latency $< 3.2 \mu s$

10 Gbps Latency < $2.6 \mu s$

Throughput 142.9 million pps

Routing/Switching

capacity

Routing table size 32 entries (IPv4)

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

Operating relative

humidity

10% to 90%, noncondensing

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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: 41.3 dB, High-speed fan: 50.1 dB; ISO 7779

Electrical characteristics Maximum heat

Maximum he dissipation 495 BTU/hr (522.23 kJ/hr)

Voltage 100 - 240 VAC, rated

(depending on power supply chosen)

Idle power55 WMaximum power rating145 WFrequency50/60 Hz

Notes Idle power is the actual power consumption of the device with no ports

connected.

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

modules populated.

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

2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR

Subchapter J; NOM; ROHS Compliance

Emissions FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4

2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-

Technical Specifications

2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part

15) Class A

IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager Management

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

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 5120-48G EI Switch (JE067A)

48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type **Ports**

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 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP

1 RJ-45 serial console port

Supports a maximum of 48 autosensing 10/100/1000 ports

Physical characteristics Dimensions 17.32(w) x 11.81(d) x 1.72(h) in (44 x 30 x 4.37 cm) (1U height)

> Weight 11.02 lb. (5 kg)

Memory and processor 128 MB SRAM; Packet buffer size: 4 MB, 16 MB flash

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

Performance 1000 Mb Latency $< 3.2 \mu s$

> **Throughput** 71.4 million pps

Routing/Switching

capacity

96 Gbps

Routing table size 32 entries (IPv4)

10 Gbps Latency < 2.6 µs

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

Operating relative

humidity

10% to 90%, 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: 41.3 dB, High-speed fan: 50.1 dB; ISO 7779

Electrical characteristics Maximum heat

dissipation

375 BTU/hr (395.63 kJ/hr)

100 - 240 VAC. rated Voltage

(depending on power supply chosen)

Idle power 54 W Maximum power rating 110 W Frequency 50/60 Hz

Notes Idle power is the actual power consumption of the device with no ports

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; 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 FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4

> 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; 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

Management IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager

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 5120-24G EI Switch with 2 Interface Slots (JE068A)

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

4 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP

2 port expansion module slots 1 RJ-45 serial console port

Physical characteristics **Dimensions** 17.32(w) x 11.81(d) x 1.72(h) in (44 x 30 x 4.37 cm) (1U height)

> 9.92 lb. (4.5 kg) Weight

Memory and processor 128 MB SDRAM; Packet buffer size: 2 MB, 16 MB flash

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

Performance 1000 Mb Latency < 3.2 **u**s

> 10 Gbps Latency < 2.6 **u**s

Throughput 107.2 million pps

Routing/Switching

capacity

144 Gbps

Routing table size 32 entries (IPv4)

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

Operating relative

humidity

10% to 90%, 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: 42.6 dB, High-speed fan: 49.7 dB; ISO 7779 **Acoustic**

Electrical characteristics Maximum heat

351 BTU/hr (370.3 kJ/hr)

dissipation

Voltage 100 - 240 VAC. rated

(depending on power supply chosen)

36 W Idle power Maximum power rating 103 W Frequency 50/60 Hz

Notes Idle power is the actual power consumption of the device with no ports

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.

Technical Specifications

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 FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4

2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; 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

Management IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager

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 5120-24G EI Switch (JE066A)

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

4 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP

1 RJ-45 serial console port

Physical characteristics Dimensions 17.32(w) x 11.81(d) x 1.72(h) in (44 x 30 x 4.36 cm) (1U height)

> Weight 9.92 lb. (4.5 kg)

Memory and processor 128 MB SDRAM; Packet buffer size: 2 MB, 16 MB flash

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

Performance 1000 Mb Latency < 3.2 us

> **Throughput** 35.7 million pps

Routing/Switching

capacity

48 Gbps

32 entries (IPv4) Routing table size

10 Gbps Latency $< 2.6 \mu s$

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

Operating relative

humidity

10% to 90%, 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: 42.6 dB, High-speed fan: 49.7 dB; ISO 7779

212 BTU/hr (223.66 kJ/hr) Electrical characteristics Maximum heat

dissipation

100 - 240 VAC, rated Voltage

(depending on power supply chosen)

Idle power 35 W 62 W Maximum power rating **Frequency** 50/60 Hz

Notes Idle power is the actual power consumption of the device with no ports

connected.

Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure

Technical Specifications

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; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR

Subchapter J; NOM; ROHS Compliance

Emissions FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4

> 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; 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

Management IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager

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 5120-48G-PoE+ El Switch with 2 Interface Slots (JG237A)

Ports 48 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type

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

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

4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP

2 port expansion module slots 1 RJ-45 serial console port

Supports a maximum of 48 autosensing 10/100/1000 ports

17.32(w) x 16.54(d) x 1.72(h) in (43.99 x 42.01 x 4.37 cm) (1U height) **Dimensions** Physical characteristics

> Weight 16.53 lb. (7.5 kg)

128 MB SDRAM; Packet buffer size: 4 MB, 16 MB flash Memory and processor

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

192 Gbps

Performance 1000 Mb Latency $< 3.2 \mu s$

> 10 Gbps Latency $< 2.6 \mu s$

Throughput 142.9 million pps

Routing/Switching

capacity

Routing table size 32 entries (IPv4)

Environment Operating temperature

32°F to 113°F (0°C to 45°C)

Operating relative

humidity

10% to 90%, noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

10% to 90%, noncondensing

Acoustic

Low-speed fan: 49.5 dB, High-speed fan: 54.1 dB; ISO 7779

Electrical characteristics Maximum heat

2221 BTU/hr (2343.15 kJ/hr), Max heat dissipation for AC is 2221 BTU/hr

dissipation and 3142 BTU/hr for RPS (Redundant Power Supply).

100 - 240 VAC, rated

Voltage

(depending on power supply chosen)

Idle power 90 W Maximum power rating 651 W 370 W PoE+ PoE power

Technical Specifications

Frequency 50/60 Hz

Notes Idle power is the actual power consumption of the device with no ports

connected

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

modules populated.

PoE Power is the power supplied by the internal power supply; it is dependent on the type and quantity of power supplies and may be supplemented with the use of an External Power Supply (EPS).

With AC input, the Max power consumption is 550 W (370 W for PoE).

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 FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4

2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; 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

Management IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager

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 5120-24G-PoE+ El Switch with 2 Interface Slots (JG236A)

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

100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Duplex: 10BASE-T/100BASE-

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

4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SPF

2 port expansion module slots 1 RJ-45 serial console port

Physical characteristics Dimensions $17.32(w) \times 16.54(d) \times 1.72(h)$ in $(43.99 \times 42.01 \times 4.37 \text{ cm})$ (1U height)

Weight 15.43 lb. (7 kg)

Memory and processor 128 MB SDRAM; Packet buffer size: 2 MB, 16 MB flash

MountingMounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)

Performance 1000 Mb Latency $< 3.2 \mu s$

10 Gbps Latency $< 2.6 \mu s$

Throughput 107.2 million pps

Routing/Switching

capacity

144 Gbps

Routing table size 32 entries (IPv4)

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

Operating relative

elative 10% to 90%, noncondensing

humidity

age -40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

temperature

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic Low-speed fan: 41.5 dB, High-speed fan: 51.1 dB; ISO 7779

Technical Specifications

Electrical characteristics Maximum heat

dissipation

1996 BTU/hr (2105.78 kJ/hr), Max heat dissipation for AC is 1996 BTU/hr

and 1675 BTU/hr for RPS (Redundant Power Supply).

Voltage 100 - 240 VAC, rated

(depending on power supply chosen)

Idle power 65 W Maximum power rating 585 W 370 W PoE power 50/60 Hz Frequency

Idle power is the actual power consumption of the device with no ports **Notes**

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.&It;br>PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies and may be supplemented with the use of an external power

supply (EPS). With AC input, the maximum power consumption is 585W; 215W for system, 370W for PoE. With DC input, the maximum power consumption is

491W; 121W for system, 370W for PoE.

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; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR

Subchapter J; NOM; ROHS Compliance

Emissions FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4

> 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; 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

Management IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager

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

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

Addresses

RFC 3315 DHCPv6 (client and relay)

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

Standards and protocols Device management

(applies to all products in

series)

RFC 1157 SNMPv1/v2c RFC 2461 IPv6 Neighbor Discovery

RFC 1305 NTPv3 RFC 2463 ICMPv6

RFC 2573 (SNMPv3 Applications) RFC 3162 RADIUS and IPv6

RFC 2819 (RMON groups Alarm, Event, History RFC 3306 Unicast-Prefix-based IPv6 Multicast

and Statistics only)

RFC 3416 (SNMP Protocol Operations v2)

HTML and telnet management Multiple Configuration Files

MIBs SNMP v3 and RMON RFC support RFC 1212 Concise MIB Definitions

SSHv1/SSHv2 Secure Shell RFC 1213 MIB II TACACS/TACACS+ RFC 1493 Bridge MIB

Web UI RFC 1757 Remote Network Monitoring MIB RFC 2096 IP Forwarding Table MIB

General protocols RFC 2233 Interface MIB

IEEE 802.1ad Q-in-Q RFC 2571 SNMP Framework MIB IEEE 802.1D MAC Bridges RFC 2572 SNMP-MPD MIB IEEE 802.1p Priority RFC 2573 SNMP-Notification MIB IEEE 802.1Q VLANs RFC 2573 SNMP-Target MIB

IEEE 802.1s Multiple Spanning Trees RFC 2574 SNMP USM MIB

IEEE 802.1w Rapid Reconfiguration of Spanning RFC 2618 RADIUS Authentication Client MIB

Technical Specifications

Tree

IEEE 802.1X PAE

IEEE 802.3 Type 10BASE-T

IEEE 802.3ab 1000BASE-T

IEEE 802.3ad Link Aggregation Control Protocol

(LACP)

IEEE 802.3ae 10-Gigabit Ethernet

IEEE 802.3af Power over 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 783 TFTP Protocol (revision 2)

RFC 791 IP

RFC 792 ICMP

RFC 793 TCP

RFC 826 ARP

RFC 854 TELNET

RFC 951 BOOTP

RFC 1213 Management Information Base for

Network Management of TCP/IP-based internets

RFC 1305 NTPv3

RFC 1350 TFTP Protocol (revision 2)

RFC 1519 CIDR

RFC 1812 IPv4 Routing

RFC 1866 Hypertext Markup Language - 2.0

RFC 2131 DHCP

RFC 2236 IGMP Snooping

RFC 2616 HTTP Compatibility v1.1

RFC 2665 Definitions of Managed Objects for the

Ethernet-like Interface Types

RFC 2668 Definitions of Managed Objects for IEEE

802.3 Medium Attachment Units (MAUs)

RFC 2865 Remote Authentication Dial In User

Service (RADIUS)

RFC 2866 RADIUS Accounting

RFC 3414 User-based Security Model (USM) for

version 3 of the Simple Network Management

Protocol (SNMPv3)

RFC 3415 View-based Access Control Model

(VACM) for the Simple Network Management

Protocol (SNMP)

RFC 3418 Management Information Base (MIB)

for the Simple Network Management Protocol

(SNMP

RFC 4213 Basic IPv6 Transition Mechanisms

802.1r - GARP Proprietary Attribute Registration

Protocol (GPRP)

RFC 2620 RADIUS Accounting Client MIB

RFC 2665 Ethernet-Like-MIB

RFC 2668 802.3 MAU MIB

RFC 2674 802.1p and IEEE 802.1Q Bridge MIB

RFC 2737 Entity MIB (Version 2)

RFC 2819 RMON MIB

RFC 2863 The Interfaces Group 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

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)

ANSI/TIA-1057 LLDP Media Endpoint Discovery

(LLDP-MED)

SNMPv1/v2c/v3

Security

IEEE 802.1X Port Based Network Access Control

RFC 1492 TACACS+

RFC 2138 RADIUS Authentication

RFC 2139 RADIUS Accounting

RFC 2865 RADIUS (client only)

RFC 2866 RADIUS Accounting

Secure Sockets Layer (SSL)

SSHv2 Secure Shell

Accessories

HPE 5120 El Switch	Modules	
Series accessories	HP 5500 2-port 10GbE XFP Module	JD359B
	HP 5500 2-port 10GbE Local Connect Module	JD360B
	HP 5500 1-port 10GbE XFP Module	JD361B
	HP 5500/5120 2-port 10GbE SFP+ Module	JD368B
	HP 5500/4800 2-port GbE SFP Module	JD367A
	HP 5500/5120 2-port 10GBASE-T Module	JG535A
	HPE 5130/5510 10GBASE-T 2-port Module	JH156A
	Transceivers	31113071
	HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
	HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
	HP X125 1G SFP LC LH70 Transceiver	JD063B
	HP X120 1G SFP LC SX Transceiver	JD118B
	HP X130 10G SFP+ LC SR Transceiver	JD092B
	HP X130 10G SFP+ LC LRM Transceiver	JD093B
	HP X130 10G SFP+ LC LR Transceiver	JD073B
	HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
	HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
	HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
	HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
	HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
	HP X130 10G XFP LC LR Transceiver	JD108B
	HP X130 10G XFP LC SR Transceiver	JD117B
	HP X120 1G SFP LC SX Transceiver	JD118B
	HP X120 1G SFP LC LX Transceiver	JD119B
	HP X120 1G SFP RJ45 T Transceiver	JD089B
	HP X135 10G XFP LC ER Transceiver	JD121A
	HP X120 1G SFP LC BX 10-U Transceiver	JD098B
	HP X120 1G SFP LC BX 10-D Transceiver	JD099B
	HP X120 1G SFP RJ45 T Transceiver	JD089B
	HP X130 10G SFP+ LC ER 40km Transceiver	JG234A
	Cables	
	HP X230 CX4 to CX4 3m Cable	JD365A
	HP 0.5 m Multimode OM3 LC/LC Optical Cable	AJ833A
	HP 1 m Multimode OM3 LC/LC Optical Cable	AJ834A
	HP 2 m Multimode OM3 LC/LC Optical Cable	AJ835A
	HP 5 m Multimode OM3 LC/LC Optical Cable	AJ836A
	HP 15 m Multimode OM3 LC/LC Optical Cable	AJ837A
	HP 30 m Multimode OM3 LC/LC Optical Cable	AJ838A
	HP 50 m Multimode OM3 LC/LC Optical Cable	AJ839A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A
	HP X230 Local Connect 50cm CX4 Cable	JD363B

Accessories

Power	Supp	lγ
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HP RPS 800 Redundant Power Supply	JD183A
HP RPS1600 Redundant Power System	JG136A
HP RPS1600 1600W AC Power Supply	JG137A
Power Cords	
HP X290 1000 A JD5 2m RPS Cable	JD187A
HP X290 500/800 1m RPS Cable	JD190A

Accessory Product Details

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

HP 5500 2-port 10GbE	Ports	2 XFP 10-GbE ports; Dup	lex: full only	
XFP Module (JD359B)	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-le descriptions and product numbers. For details about services and respon times in your area, please contact your local Hewlett Packard Enterprise sales office.		
HP 5500 1-port 10GbE	Ports	1 XFP 10-GbE port; Duplex: full only		
XFP Module (JD361B)	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 responsitimes in your area, please contact your local Hewlett Packard Enterprise sales office.		
HP 5500/4800 2-port	Ports	2 SFP 1000 Mbps ports		
GbE SFP Module (JD367A)	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-leve descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.		
HP X125 1G SFP LC	Ports	1 LC 1000Base-LH port (no IEEE standard exists for 1550 nm optics)		
LH40 1310nm Transceiver (JD061A)	Connectivity	Connector type Wavelength	LC 1310 nm	
A small form-factor pluggable SFP Gigabit LH40 transceiver that provides a full duplex Gigabit solution up to 40km 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)	
	Electrical characteristics	Power consumption	0.04 lb. (0.02 kg) al 0.8 W 1.0 W	
	Cabling	maximum Cable type: Single-mode fiber optic, complying with ITU-T G.652;		
		Maximum distance:		
		40km distance		
	Services	descriptions and product	Single Mode ard Enterprise website at tworking/services for details on the service-leve numbers. For details about services and response contact your local Hewlett Packard Enterprise	
HP X120 1G SFP LC LH40 1550nm Transceiver (JD062A)	Ports Connectivity	1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics) Connector type LC Wavelength 1550 nm		

Accessory Product Details

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. **Cabling**

2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x Physical characteristics Dimensions

1.17 cm)

Full configuration weight 0.04 lb. (0.02 kg)

Electrical characteristics Power consumption typical 0.8 W

Power consumption 1.0 W

maximum

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

Maximum distance:

40km distance

Single Mode Fiber type

Refer to the Hewlett Packard Enterprise website at Services

> 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 X125 1G SFP LC **LH70 Transceiver**

(JD063B)

A small form-factor pluggable (SFP) Gigabit LH70 transceiver that provides a full-duplex Gigabit solution up to 70km on a single-mode fiber.

Transceiver (JD118B)

pluggable (SFP) Gigabit

SX transceiver that

provides a full-duplex Gigabit solution up to

550m on a Multimode

Ports 1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)

Connectivity Connector type LC

> Wavelength 1550 nm

2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x Physical characteristics **Dimensions**

1.17 cm)

Full configuration weight 0.04 lb. (0.02 kg)

Electrical characteristics Power consumption 0.8 W

typical

Power consumption 1.0 W

maximum

Cabling Cable type:

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

Maximum distance:

• 70km

Single Mode Fiber type

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 X120 1G SFP LC SX 1 LC 1000BASE-SX port

> LC Connectivity Connector type

> > 850 nm Wavelength

A small form-factor Physical characteristics **Dimensions**

Electrical characteristics Power consumption

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) 0.8 W

typical

Accessory Product Details

fiber. **Power consumption** 1.0 W

maximum

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.

HP X120 1G SFP LC LX Ports 1 SFP 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX)

Transceiver (JD119B) Connectivity Connector type LC

Wavelength 1300 nm

A small form-factor pluggable (SFP) Gigabig 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 0.8 W

typical

Power consumption 1.0 W

maximum

Cabling Cable type:

Either single mode or multimode;

Maximum distance:
• 550m for Multimode
• 10km for Singlemode

Fiber type Both

Services Refer to the Hewlett Packard Enterprise website at

<u>http://www.hpe.com/networking/services</u> 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

1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-U);

sales office.

HP X120 1G SFP LC BX Ports

LX transceiver that

on SMF

(JD098B)

cable.

A small form-factor

pluggable (SFP) Gigabit

LX-BX10-U transceiver

Gigabit solution up to 10km on a single mode

provides a full duplex Gigabit solution up to

550m on MMF or 10Km

10-U Transceiver

Connectivity Connector type

Physical characteristics Dimensions $2.17(d) \times 0.6(w) \times 0.46(h)$ in. $(5.51 \times 1.52 \times 1.5$

1.17 cm)

I C

Full configuration weight 0.04 lb. (0.02 kg)

that provides a full duplex **Electrical characteristics Power consumption** 0.8 W

Duplex: full only

typical

Power consumption 1.0 W

maximum

Cabling Maximum distance:

• 10km

Accessory Product Details

Fiber type Single Mode

TX 1310nm RX 1490nm **Notes**

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 X120 1G SFP LC BX Ports

10-D Transceiver

1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-D);

Full configuration weight 0.04 lb. (0.02 kg)

Duplex: full only

(JD099B)

cable.

Connectivity

Connector type LC

Physical characteristics Dimensions 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x

1.17 cm)

A small form-factor pluggable (SFP) Gigabit LX-BX10-D transceiver that provides a full duplex Electrical characteristics Power consumption Gigabit solution up to

10km on a single mode

0.8 W

typical

Power consumption

1.0 W

maximum

Cabling Maximum distance:

Up to 10km

Fiber type Single Mode

Notes TX 1490nm RX 1310nm

Services Refer to the Hewlett Packard Enterprise website at

1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T)

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 X125 1G SFP RJ45 T **Transceiver** (JD089B)

Connectivity Physical

Ports

Connector type **RJ-45**

 $2.71(d) \times 0.54(w) \times 0.55(h)$ in. $(6.88 \times 1.37 \times 1.4 \text{ cm})$ **Dimensions**

characteristics Full configuration weight 0.07 lb. (0.03 kg)

A small form factor pluggable characteristics (SFP) Gigabit 1000Base-T transceiver that

provides a full duplex Gigabit solution up to 100m on a Cat-

5+ cable.

Electrical

Cabling

Cabling

Power consumption typical Power consumption maximum 0.8 W 1.0 W

Cable type:

1000BASE-T: Category 5 (5E or better recommended), 100 Ù 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 **Services**

> 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 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A)

Cable type:

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

Accessory Product Details

distances of up to 300 m

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

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

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

Services

Notes

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 1 m Multimode OM3 Cabling LC/LC Optical Cable

(AJ834A)

Cable type:

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

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

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

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

Notes

Accessory Product Details

multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows.

- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Agua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46.
- Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

Services

Refer to the Hewlett Packard Enterprise website at

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

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

Cable type:

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

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Notes

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

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

Services

Refer to the Hewlett Packard Enterprise website at

<u>http://www.hpe.com/networking/services</u> for details on the service-level descriptions and product numbers. For details about services and response

Accessory Product Details

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

HP 5 m Multimode OM3 Cabling LC/LC Optical Cable

(AJ836A)

Cable type:

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

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Notes

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

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

Services

Refer to the Hewlett Packard Enterprise website at

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

HP 15 m Multimode OM3 LC/LC Optical Cable (AJ837A)

Cabling

Notes

Cable type:

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

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

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

• Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ±

Page 37

Accessory Product Details

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

Services

Refer to the Hewlett Packard Enterprise website at

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

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

Cabling

Cable type:

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

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Notes

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

- Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um
- Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm.
- Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links.
- CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows.
- BULK CABLE & CABLE ASSEMBLY CONFIGURATION:
- Jacket Material: Riser Grade Low Smoke Zero Halogen thermoplastic.
- Jacket Color: Aqua for OM3 multimode per TIA 598
- Boot Color: White
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @

Accessory Product Details

1310 nm @ 23°C as tested in accordance with EIA 455-46.

• Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg

Services

Refer to the Hewlett Packard Enterprise website at

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

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

Cabling

Cable type:

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

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Notes

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

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

Services

Refer to the Hewlett Packard Enterprise website at

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

HP 0.5 m PremierFlex OM3+ LC/LC Optical Cable (BK837A) **Notes**

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

- \bullet Core diameter: 50um ± 3um; Cladding diameter: 125um ± 2um; Coating diameter: 245 ± 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)

Accessory Product Details

- Jacket Color: Blue
- Jacket Material: Riser Grade Low Smoke Zero Halogen (LSZH) thermoplastic.
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL OFN FT4, ROHS. Cable also has a longitudal white stripe that runs the entire length of the cable.
- \bullet Insertion Loss: less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m
- \bullet Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46

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 1 m PremierFlex OM3+ LC/LC Optical Cable (BK838A)

Notes

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

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

HP 2 m PremierFlex OM3+ LC/LC Optical Cable (BK839A)

Notes

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

- Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.

Accessory Product Details

- \bullet 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.

HP 5 m PremierFlex OM3+ LC/LC Optical Cable (BK840A)

Notes

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

- Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- \bullet 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.

HP 15 m PremierFlex OM3+ LC/LC Optical Cable (BK841A)

Notes

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

- Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- \bullet 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

Accessory Product Details

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

HP 30 m PremierFlex OM3+ LC/LC Optical Cable (BK842A)

Notes

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

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

Services

Refer to the Hewlett Packard Enterprise website at

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

HP 50 m PremierFlex OM3+ LC/LC Optical Cable (BK843A)

Notes

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

- Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade Low Smoke Zero Halogen (LSZH) thermoplastic
- Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- \bullet 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.

HP RPS1600 Redundant Ports

Power System (JG136A)

8 redundant power supply ports

Restrictions: two -56V/25A DC(PoE); six -56V/8A DC(non-PoE)

Physical characteristics

Dimensions

15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x

4.42 cm)

Accessory Product Details

Weight 14.11 lb. (6.4 kg) Full configuration weight 16.75 lb. (7.6 kg)

Environment Operating temperature 14°F to 122°F (-10°C to 50°C)

> Operating relative 5% to 95%

humidity

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage relative humidity

5% to 95%

Altitude up to 13,123 ft. (4 km)

Pressure: 53 dB; ISO 7779, ISO 9296 Acoustic

100-120/200-240 VAC Electrical characteristics Voltage

> Current 30/60 A 38 W Idle power Maximum power rating 3550 W **RPS** power 3200 W PoE power 2800 W **RPS** -55 V -55 V PoE 50/60 Hz Frequency

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.

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.

HP RPS1600 1600W AC Physical characteristics

Power Supply (JG137A)

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 5% to 95%

humidity

Nonoperating/Storage -40°F to 158°F (-40°C to 70°C)

Accessory Product Details

temperature

Nonoperating/Storage 5% to 95%

relative humidity

Electrical characteristics Voltage 100-120/200-240 VAC

Current15/30 AMaximum power rating1600 WFrequency50/60 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.

Summary of Changes

Date	Version History	Action	Description of Change
11-Dec-2015	From Version 30 to 31	Changed	Overview and Technical Specifications updated
12-Dec-2014	From Version 29 to 30	Changed	Fixed minor error on the Accessories section
01-Dec-2014	From Version 28 to 29	Changed	Warranty and support updated
03-Jul-2014	From Version 27 to 28	Changed	Configuration menu updated.
10-Jun-2014	From Version 26 to 27	Added	Added Opacity Shield Kit and Tamper Evidence Labels to Configuration.
15-Apr-2014	From Version 25 to 26	Changed	Notes section in Modules was revised in Configuration.
17-Feb-2014	From Version 24 to 25	Changed	Transceivers and Cables were revised.
17-Dec-2013	From Version 23 to 24	Changed	Modules were revised in Configuration.
09-Dec-2013	From Version 22 to 23	Changed	Notes were revised in Modules.
08-Nov-2013	From Version 21 to 22	Changed	Standard Switch Chassis, Box Level Integration CTO Models, Rack Level Integration Models, and Modules were revised in Configuration.
09-Oct-2013	From Version 20 to 21	Removed	HP X110 100M SFP LC FX Dual Mode Transceiver and HP X110 SFP LC LX10 Transceiver were removed.
30-Sep-2013	From Version 18 to 20	Changed	Notes sections were revised in Configuration HP 5500/5120 2p 10GBASE-T Module was added to Modules
19-Aug-2013	From Version 17 to 18	Changed	Notes section was revised in Box Level Integration CTO Models.
12-Jul-2013	From Version 16 to 17	Added	Acoustic was added to Technical Specifications.
05-Jul-2013	From Version 14 to 16	Added	Configuration Modules were added. Accessories section was added.
21-Jun-2013	From Version 13 to 14	Added	Per-VLAN Spanning Tree Plus was added to Layer 2 Switching RFC 2138 RADIUS Authentication and RFC 2139 RADIUS Accounting were added to Standards and Protocols
10-Jun-2013	From Version 12 to 13	Changed	Overview and Configuration were revised.
22-Apr-2013	From Version 11 to 12	Added	Overview: Added images.
25-Mar-2013	From Version 10 to 11	Added	Overview: Added Build to Order and Models to the Features and benefits section.
		Removed	Overview: Removed products from the Models section Completely removed the Accessories section from QS
07-Dec-2012	From Version 8 to 9	Changed	A PDF formatting issue was corrected.
14-May-2012	From Version 7 to 8	Changed	Features and Benefits, Accessories, and the weight and dimensions for each spec were revised.
26-Sep-2011	From Version 3 to 7	Changed	Model descriptions were revised.
30-Aug-2011	From Version 2 to 3	Added	New models were added.
14-Mar-2011	From Version 1 to 2	Changed	Updated the accessories section.

Summary of Changes





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