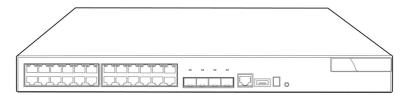
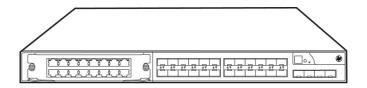
Overview



HP 5800-24G-PoE+ Switch



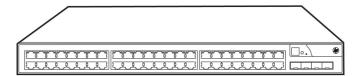
HP 5800-24G Switch



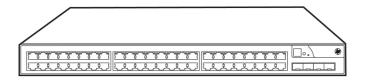
HP 5800-24G-SFP Switch



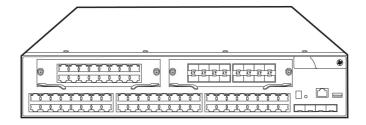
Overview



HP 5800-48G-PoE Switch



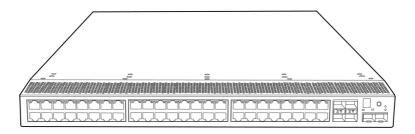
HP 5800-48G Switch



HP 5800-48G Switch with 2 Slots



Overview



HP 5800AF-48G Switch

Models

HP 5800-24G-PoE+ Switch	JC099A
HP 5800-24G Switch	JC100A
HP 5800-24G-SFP Switch	JC103A
HP 5800-48G-PoE Switch	JC104A
HP 5800-48G Switch	JC105A
HP 5800-48G Switch with 2 Slots	JC101A
HP 5800AF-48G Switch	JG225A

Key features

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

Product overview

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

Features and benefits

Quality of Service (QoS)

Powerful QoS feature
 creates traffic classes based on access control lists (ACLs), IEEE 802.1p precedence, IP, and DSCP or Type of Service (ToS)



Overview

precedence; supports filter, redirect, mirror, or remark; supports the following congestion actions: strict priority (SP) queuing, weighted round robin (WRR), weighted fair queuing (WFQ), weighted random early discard (WRED), weighted deficit round robin (WDRR), and SP+WDRR

Integrated network services

with support for open application architecture (OAA) modules, extends and integrates application capability into the network

• Ring Resiliency Protection Protocol (RRPP)

provides fast recovery for ring Ethernet-based topology; provides consistent application performance for applications such as VoIP

Management

• Remote configuration and management

is available through a secure Web browser or a command-line interface (CLI)

• IEEE 802.1ab LLDP discovery

advertises and receives management information from adjacent devices on a network

• USB support:

○ File copy

allows users to copy switch files to and from a USB flash drive

• DHCP options:

- DNS Relay and SMTP Redirection
- O DHCP: Server (RFC 2131), Client, and Option-82 Relay (RFC 3046)

sFlow

provides scalable, ASIC-based network monitoring and accounting; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes

• SNMPv1, v2c, and v3

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

Network Time Protocol (NTP)

synchronizes timekeeping among distributed time servers and clients; keeps consistent timekeeping among all clock-dependent devices within the network so that the devices can provide diverse applications based on the consistent time

Connectivity

• High-density port connectivity

supports up to 84 1-Gigabit ports per unit (612 per stack)

Auto-MDIX

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

Jumbo frames

on Gigabit Ethernet and 10-Gigabit ports, jumbo frames of 9k size allow high-performance remote backup and disaster-recovery services

IEEE 802.3af Power over Ethernet (PoE)

provides up to 15.4 W per port to IEEE 802.3af-compliant PoE-powered devices such as IP phones, wireless access points, and security cameras

• IEEE 802.3at Power over Ethernet (PoE+) support

simplifies deployment and dramatically reduces installation costs by helping to eliminate the time and cost involved in supplying local power at each access point location

IPv6 native support

IPv6 host

enables switches to be managed and deployed at the IPv6 network's edge

○ Dual stack (IPv4/IPv6)

transitions from IPv4 to IPv6, supporting connectivity for both protocols

MLD snooping



Overview

forwards IPv6 multicast traffic to the appropriate interface

IPv6 ACL/QoS

supports ACL and QoS for IPv6 network traffic, preventing traffic flooding

IPv6 routing

supports IPv6 static routes and IPv6 versions of RIP, OSPF, IS-IS, and BGP routing protocols

Performance

Hardware-based wire-speed access control lists (ACLs)

feature-rich ACL implementation (TCAM-based) helps provide high levels of security and ease of administration without impacting network performance

• Unique versatile architecture

supports the best of both fixed-port and modular configurations

Resiliency and high availability

• Data center-optimized design

the HP 5800AF-48G Switch (JG225A) supports front-to-back/back-to-front airflow for hot/cold aisles, rear rack mounts, and redundant hot-swappable AC or DC power and fans

Manageability

Full-featured console

provides complete control of the switch with a familiar command-line interface (CLI)

Web interface

allows configuration of the switch from any Web browser on the network

RMON and sFlow

provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events

Multiple configuration files

allow multiple configuration files to be stored to a flash image

- Troubleshooting
 - Ingress and egress port monitoring

enable network problem solving

Traceroute and ping

enable testing of network connectivity

Virtual cable tests

provide visibility to cable problems

Layer 2 switching

• GARP VLAN Registration Protocol:

allows automatic learning and dynamic assignment of VLANs

32K MAC addresses

provide access to many Layer 2 devices

• 4,094 port-based VLANs

provide security between workgroups

• IEEE 802.1ad QinQ and Selective QinQ

increase the scalability of an Ethernet network by providing a hierarchical structure; connect multiple LANs on a high-speed campus or metro network

• Gigabit Ethernet port aggregation

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



Overview

• 10 GbE port aggregation

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

• Spanning Tree/MSTP, RSTP, and STP Root Guard

prevent network loops

IPFIX/sFlow

allows traffic sampling

• Spanning Tree Protocols (STP, MSTP, and RSTP) and STP root guard

helps prevent network loops; up to 32 MSTP instances available

Layer 3 services

Address Resolution Protocol (ARP)

determines the MAC address of another IP host in the same subnet; supports static ARPs; gratuitous ARP allows detection of duplicate IP addresses; proxy ARP allows normal ARP operation between subnets or when subnets are separated by a Layer 2 network

• Dynamic Host Configuration Protocol (DHCP)

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

Layer 3 routing

Layer 3 IPv4 routing

provides routing of IPv4 at media speed; supports static routes, RIP and RIPv2, OSPF, IS-IS, and BGP

• RIP and RIPng support

provides complete support of RIP for both IPv4 and IPv6

OSPF and OSPFv3 support

provides complete support of OSPF for both IPv4 and IPv6

• IS-IS and IS-ISv6 support

provides complete support of IS-IS for both IPv4 and IPv6

Layer 3 IPv6 routing

provides routing of IPv6 at media speed; supports static routes, RIPng, OSPFv3, IS-ISv6, and BGP4+

• Bidirectional Forwarding Detection (BFD)

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

• Virtual Router Redundancy Protocol (VRRP) and VRRP Extended

allow guick failover of router ports

Policy-based routing

makes routing decisions based on policies set by the network administrator

• IGMPv1, v2, and v3

allow individual hosts to be registered on a particular VLAN

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

support IP Multicast address management and inhibition of DoS attacks

Equal-Cost Multipath (ECMP)

enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth

NEW MPLS support

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

NEW VPLS support

provides extended support of VPLS for data center to data center communication at Layer 2; provides support of hierarchical VPLS for scalability

Security



Overview

Unicast Reverse Path Forwarding (URPF)

allows normal packets to be forwarded correctly, but discards the attaching packet due to lack of reverse path route or incorrect inbound interface; prevents source spoofing and distributed attacks; supports distributed UFPF

Defense-in-depth security

provides integrated and distributed security enforcement that can be managed from a central location, such as the HP Intelligent Management Center (IMC)

• Advanced processor queuing mechanism

helps prevent denial-of-service (DoS) attacks, while DHCP snooping helps ensure that devices can only receive an IP address from a legitimate DHCP server on the network

• IEEE 802.1X-based dynamic delivery of QoS, ACLs, and VLANs

allows complete control over user network access

Guest VLAN

similar to IEEE 802.1X, it provides a browser-based environment to authenticated clients

Port isolation

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

• MAC-based authentication

allows or denies access to the switch based on client MAC address

• HTTPS management

provides secure Web management

• Multi-Customer Edge (MCE)-Multicast Virtual Routing and Forwarding (MVRF)

provide MPLS Edge router support

• Public Key Infrastructure (PKI)

is used to control access

RADIUS/HWTACACS

eases switch management security administration by using a password authentication server

• Secure Shell (SSHv2)

encrypts all transmitted data for secure, remote CLI access over IP networks

• IP Source Guard

helps prevent IP spoofing attacks; filters packets on a per-port basis, which prevents illegal packets from being forwarded

• Access control lists (ACLs)

helps provide high levels of security and ease of administration; 6k ingress entries and 1k egress entries (IPv4 and IPv6)

Convergence

Voice VLAN

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

• Internet Group Management Protocol (IGMP)

is used by IP hosts to establish and maintain multicast groups; supports v1, v2, and v3; utilizes Any-Source Multicast (ASM) or Source-Specific Multicast (SSM) to manage IPv4 multicast networks

Protocol Independent Multicast (PIM)

is used for IPv4 and IPv6 multicast applications; supports PIM Dense Mode (DM), Sparse Mode (SM), and Source-Specific Mode (SSM)

• LLDP-MED (Media Endpoint Discovery)

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

Monitor and diagnostics

Port mirroring

enables traffic on a port to be simultaneously sent to a network analyzer for monitoring

• OAM (IEEE 802.3ah)



Overview

operational, administration and maintenance (OAM) management capabilities detects data link layer problems that occurred in the "last mile"; monitors the status of the link between the two devices

CFD (IEEE 802.1ag)
 connectivity fault detection (CFD) provides a Layer 2 link OAM mechanism used for link connectivity detection and fault locating

Additional information

• HP Intelligent Resilient Framework (IRF)

- Creates virtual resilient switching fabrics, where two or more switches perform as a single Layer 2 switch and Layer 3 router
- O Switches do not have to be co-located and can be part of a disaster-recovery system
- Servers or switches can be attached using standard LACP for automatic load balancing and high availability
- Simplifies network operation by eliminating the complexity of Spanning Tree Protocol, ECMP, or VRRP

OAA modules

support wireless network management and high-performance security applications; leverage network infrastructure investment

• Green IT and power

use the latest advances in silicon development, shut off unused ports, and use variable-speed fans to improve energy efficiency

Higher scalability with IRF

simplifies the architecture of server access networks and reduces cost and complexity; up to nine 5800 Switches can be combined to deliver unmatched scalability of virtualized access layer switches and flatter, two-tier FlexFabric networks

Warranty and support

Lifetime warranty

for as long as you own the product with advance replacement and next-business-day delivery (available in most countries)†

• Electronic and telephone support

limited electronic and telephone support is available from HP; to reach our support centers, refer to: www.hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to: www.hp.com/networking/warrantysummary

Software releases

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

tHP warranty includes repair or replacement of hardware for as long as you own the product, with next business day advance replacement (available in most countries). The disk drive included with HP AllianceOne Advanced Services and Services zl Modules, HP Threat Management Services zl Module, HP AllianceOne Extended zl Module with Riverbed Steelhead, HP MSM765zl Mobility Controller and HP Survivable Branch Communication zl Module powered by Microsoft Lync has a five-year hardware warranty. For details, refer to the Software license and hardware warranty statements at: www.hp.com/networking/warranty.



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 5800-24G Switch JC100A • 24 RJ-45 autosensing 10/100/1000 ports **See Configuration** 1 extended module slot Note: 1, 3 4 fixed 1000/10000 SFP+ ports Power Supply included

• 1U - Height

C15 PDU NA JC100A#B2B

C15 to C14 Jumper Cord (NA)

C15 PDU ROW JC100A#B2C

C15 to C14 Jumper Cord (ROW)

HP 5800-24G-PoE Switch JC099A

 24 RJ-45 autosensing 10/100/1000 ports See Configuration Note:1,3 1 extended module slot

4 fixed 1000/10000 SFP+ ports

Power Supply included

• 1U - Height

C15 PDU NA JC099A#B2B

C15 to C14 Jumper Cord (NA)

C15 PDU ROW JC099A#B2C

C15 to C14 Jumper Cord (ROW)

HP 5800-24G-SFP Switch JC103A

• 24 100/1000 SFP ports **See Configuration** • 1 extended module slot Note: 1, 4

4 fixed 1000/10000 SFP+ ports

Must select min 1 Power Supply

• 1U - Height

HP 5800-48G Switch JC105A

• 48 RJ-45 autosensing 10/100/1000 ports **See Configuration** 1 extended module slot Note: 1, 3

4 fixed 1000/10000 SFP+ ports

Power Supply included

• 1U- Height

C15 PDU NA JC105A#B2B

C15 to C14 Jumper Cord (NA)



Configuration

C15 PDU ROW JC105A#B2C

C15 to C14 Jumper Cord (ROW)

HP 5800-48G-PoE Switch JC104A

48 RJ-45 autosensing 10/100/1000 ports
 1 extended module slot
 Note:1,3

• 4 fixed 1000/10000 SFP+ ports

4 lixed 1000/10000 3FF+ port

Power Supply included

• 1U - Height

C15 PDU NA JC104A#B2B

C15 to C14 Jumper Cord (NA)

C15 PDU ROW JC104A#B2C

• C15 to C14 Jumper Cord (ROW)

HP 5800-48G Switch with 2 Slots JC101A

48 RJ-45 autosensing 10/100/1000 ports
 2 extended module slot
 Note:4

• 4 fixed 1000 SFP ports

• Must select min 1 Power Supply

• 2U - Height

Configuration Rules

Note 1 The following Transceivers install into this switch:

JD092B
JD093B
JD094B
JG234A
JD061A
JD062A
JD118B
JD119B
JD063B
JD089B
JD095C
JD096C
JD097C
JG081C
JC784C

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

Note 4 The following Transceivers install into this Switch:

HP X125 1G SFP LC LH40 1310nm Transceiver JD061A



Configuration

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

Box Level Integration CTO Models

CTO Switch Chassis

HP 5800-24G Switch-CTO	JC100AC
 24 RJ-45 autosensing 10/100/1000 ports 	See Configuration
1 extended module slot	Note:1, 3, 6
 4 fixed 1000/10000 SFP+ ports 	

- Power Supply included
- 1U Height

HP 5800-24G-PoE Switch-CTO

•	24 RJ-45 autosensing 10/100/1000 ports	See Configuration
•	1 extended module slot	Note:1, 3, 6

- 4 fixed 1000/10000 SFP+ ports
- Power Supply included
- 1U Height

HP 5800-24G-SFP Switch-CTO

• 24 100/1000 SFP ports	See Configuration
1 extended module slot	Note:1, 4, 5

- 4 fixed 1000/10000 SFP+ ports
- Must select min 1 Power Supply
- 1U Height

HP 5800-48G Switch-CTO

 48 RJ-45 autosensing 10/100/1000 ports 	See Configuration
1 extended module slot	Note:1, 3, 6

- 4 fixed 1000/10000 SFP+ ports
- Power Supply included
- 1U- Height

HP 5800-48G-PoE Switch-CTO JC104AC



JC099AC

JC103AC

JC105AC

Configuration

48 RJ-45 autosensing 10/100/1000 ports
 1 extended module slot
 Note:1, 3, 6

- 4 fixed 1000/10000 SFP+ ports
- Power Supply included
- 1U Height

HP 5800-48G Switch with 2 Slots-CTO

JC101AC See Configuration Note:4, 5

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

Configuration Rules

Note 1 The following Transceivers install into this switch: (Use #0D1 or #B01 if switch is CTO) If Applicable -

HP X130 SFP+ LC SR Transceiver	JD092B
HP X130 SFP+ LC LRM Transceiver	JD093B
HP X130 SFP+ LC LR Transceiver	JD094B
HP X130 10G SFP+ LC ER 40km Transceiver	JG234A
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X125 1G SFP LC LH70 Transceiver	JD063B
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X240 10G SFP+ SFP+ 0.65m DAC Cable	JD095C
HP X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C
HP X240 10G SFP+ SFP+ 3m DAC Cable	JD097C
HP X240 10G SFP+ SFP+ 5m DAC Cable	JG081C
HP X240 10G SFP+ 7m DAC Cable	JC784C

Note 3 Localization required.

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

Applicable -

HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X110 100M SFP LC FX Transceiver	JD102B



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

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

HP 5500 150WAC Power Supply

HP 5800 300W AC Power Supply

JC087A

HP 5800 750W AC PoE Power Supply

JC089A

Note 6 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 #OD1 to be integrated to the CTO Chassis.

Rack Level Integration CTO Models

Standard Switch Chassis

HP 5800-24G Switch JC100A

24 RJ-45 autosensing 10/100/1000 ports
 1 extended module slot
 Note:1, 3, 6, 10

• 4 fixed 1000/10000 SFP+ ports

Power Supply included

• 1U - Height

C15 PDU NA JC100A#B2B

C15 to C14 Jumper Cord (NA)

C15 PDU ROW JC100A#B2C

C15 to C14 Jumper Cord (ROW)

HP 5800-24G-PoE Switch JC099A

24 RJ-45 autosensing 10/100/1000 ports
 1 extended module slot
 Note:1, 3, 6, 10

• 4 fixed 1000/10000 SFP+ ports

Power Supply included

• 1U - Height

C15 PDU NA JC099A#B2B

• C15 to C14 Jumper Cord (NA)

C15 PDU ROW JC099A#B2C

C15 to C14 Jumper Cord (ROW)

HP 5800-24G-SFP Switch JC103A



Configuration

24 100/1000 SFP ports
 1 extended module slot
 Note:1, 4, 7, 10

• 4 fixed 1000/10000 SFP+ ports

• Must select min 1 Power Supply

• 1U - Height

HP 5800-48G Switch JC105A

48 RJ-45 autosensing 10/100/1000 ports
 1 extended module slot
 Note:1, 3, 6, 10

4 fixed 1000/10000 SFP+ ports

Power Supply included

• 1U- Height

C15 PDU NA JC105A#B2B

C15 to C14 Jumper Cord (NA)

C15 PDU ROW JC105A#B2C

• C15 to C14 Jumper Cord (ROW)

HP 5800-48G-PoE Switch JC104A

48 RJ-45 autosensing 10/100/1000 ports
 1 extended module slot
 Note:1, 3, 6, 10

4 fixed 1000/10000 SFP+ ports

Power Supply included

• 1U - Height

C15 PDU NA JC104A#B2B

C15 to C14 Jumper Cord (NA)

C15 PDU ROW JC104A#B2C

C15 to C14 Jumper Cord (ROW)

HP 5800-48G Switch with 2 Slots JC101A

48 RJ-45 autosensing 10/100/1000 ports
 2 extended module slot
 Note:4, 7, 10

4 fixed 1000 SFP ports

• Must select min 1 Power Supply

• 2U - Height

Configuration Rules:

Note 1 The following Transceivers install into this switch:

HP X130 SFP+ LC SR Transceiver JD092B
HP X130 SFP+ LC LRM Transceiver JD093B
HP X130 SFP+ LC LR Transceiver JD094B



Configuration

HP X130 10G SFP+ LC ER 40km Transceiver	JG234A
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X125 1G SFP LC LH70 Transceiver	JD063B
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X240 10G SFP+ SFP+ 0.65m DAC Cable	JD095C
HP X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C
HP X240 10G SFP+ SFP+ 3m DAC Cable	JD097C
HP X240 10G SFP+ SFP+ 5m DAC Cable	JG081C
HP X240 10G SFP+ 7m DAC Cable	JC784C

Note 3 Localization required.

Note 4 The following Transceivers install into this Switch:

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

Note 6 If HP CTO Switch Chassis is selected to be Rack Level Integration (No C Sku), Then #B2B,

or #B2C is Required on the Switch Chassis. (Optional when Switch is not Factory Racked.

See Drop down remark in "Power Supplies" section.)

Note 7 If HP CTO Switch Chassis is selected to be Rack Level Integration (No C Sku), Then #B2B,

or #B2C is Required on the Power Supply's. (Optional when Switch is not Factory Racked.

See Drop down remark in "Power Supplies" section.)

Note 10 If HP CTO Switch Chassis is selected to be Rack Level Integration, Then the Switch needs

to integrate (with #0D1) to the HP Universal Rack.

Internal Power Supplies

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

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



Configuration

HP 5500 150WAC Power Supply JD362A

See Configuration Note:1, 2, 3, 5

C15 PDU NA JD362A#B2B

• C15 to C14 Jumper Cord (NA)

C15 PDU ROW JD362A#B2C

C15 to C14 Jumper Cord (ROW)

HP 5500 150WDC Power Supply JD366A

See Configuration Note:1, 3

HP 5800 300W AC Power Supply JC087A

See Configuration Note:1, 2, 4, 5

C15 PDU NA JC087A#B2B

• C15 to C14 Jumper Cord (NA)

C15 PDU ROW JC087A#B2C

C15 to C14 Jumper Cord (ROW)

HP 5800 300W DC Power Supply JC090A

See Configuration Note:1, 4

NOTE: 1, 4

HP 5800 750W AC PoE Power Supply

JC089A

See Configuration Note:1, 2, 4, 5

C15 PDU NA JC089A#B2B

• C15 to C14 Jumper Cord (NA)

C15 PDU ROW JC089A#B2C

• C15 to C14 Jumper Cord (ROW)

Configuration Rules:

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

Note 2 Localization required on orders without #B2B or #B2C options.

Note 3 This power supply only supported on JC103x and JG256x Only.



Configuration

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

Remarks:

Drop down under power supply should offer the following options and results: Switch to PDU Power Cord - replace localized option with #B2B in AMS or #B2C in APJ

and EMEA

Switch to Wall Power Cord - Should leave existing Localized Option (no #B2x options)

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

Modules

Ethernet Modules

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

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

HP 5800 16-port SFP Module

JC095A

• min=0 \ max=16 SFP Transceivers

See Configuration Note:2

HP 5800 4-port 10GbE SFP+ Module

JC091A

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

See Configuration Note:1

HP 5800 2-port 10GbE SFP+ Module

JC092B

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

See Configuration Note:1

HP 5800 16-port Gig-T Module

JC094A

No Transceivers

Configuration Rules:

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

Applicable -

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+ SFP+ 0.65m DAC Cable	JD095C
HP X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C
HP X240 10G SFP+ SFP+ 3m DAC Cable	JD097C



Configuration

HP X240	10G SFP+ SFP+ 5m DAC Cable	JG081C
HP X240	10G SFP+ 7m DAC Cable	JC784C
HP X125	5 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X120) 1G SFP LC LH40 1550nm Transceiver	JD062A
HP X120	1 1 G SFP RJ45 T Transceiver	JD089B
HP X120) 1G SFP LC SX Transceiver	JD118B
HP X120) 1G SFP LC LX Transceiver	JD119B
HP X125	5 1G SFP LC LH70 Transceiver	JD063B

Note 2

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

Λ-	_1	:	ᆸ	-
ΑD	DI	ıca	DI	le -

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

Access Control Modules

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

HP 5800 ACM for 32-64 Aps

JD443A

No Transceivers

HP 5800 ACM for 64-256 Aps

JD441A

 No Transceivers **See Configuration** Note:1

HP 5820 VPN Firewall Module

JD255A

See Configuration No Transceivers

Note:1

Configuration Rules:

Note 1 This Module install to the following switches only:

JC101x - HP 5800-48G Switch with 2 Slots

PoE Modules



Configuration

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

HP 5800 PoE Module ■ No Transceivers	JC097B
Transceivers	
SFP+ Transceivers	
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 X130 10G SFP+ LC ER 40km Transceiver	JG234A
HP X240 10G SFP+ SFP+ 0.65m DAC Cable	JD095C
HP X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C
HP X240 10G SFP+ SFP+ 3m DAC Cable	JD097C
HP X240 10G SFP+ SFP+ 5m DAC Cable	JG081C
HP X240 10G SFP+ 7m DAC Cable	JC784C
SFP Transceivers	
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X115 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B
HP X115 100M SFP LC BX 10-U Transceiver	JD100A
HP X115 100M SFP LC BX 10-D Transceiver	JD101A
HP X120 1G SFP LC LH40 1550nm XCVR	JD062A
HP X120 1G SFP RJ45 T Transceiver	JD089B



Configuration

HP X120 1G SFP LC SX Transceiver

HP X120 1G SFP LC LX Transceiver

JD118B

HP X125 1G SFP LC LH40 1310nm XCVR

JD061A

HP X125 1G SFP LC LH70 Transceiver JD063B

Switch Options

Fan Options

HP 5800 2RU Spare Fan Assembly JC096A

HP 5800 1RU Spare Fan Assembly JC098A

License

HP WX5000 32 AP License Upgrade JD463A

See Configuration Note:1

Configuration Rules:

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

JD443A - HP A5800 Access Controller Module for 32-64 Aps JD441A - HP A5800 Access Controller Module for 64-256 Aps

External Redundant Power Supplies

HP RPS 800 Redundant Power Supply JD183A

• Height = 1U See Configuration

• includes 1 x c13 Note:2

HP RPS1600 Redundant Power System

JG136A

• Height = 1U See Configuration

• includes 1 x c13, 1600w and Power Supply port Note:2, 3

HP RPS1600 1600W AC Power Supply

• Installs into JG136A only

See Configuration

• Installs into JG136A only
See Configuration
Note:1, 3

Configuration Rules:



Configuration

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.

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

Options for the HPN 5800 Power Supplies

HP X290 1000 A JD5 2m RPS Cable JD187A

HP X290 1000 A JD5 Non-PoE 2m RPS Cable JD188A

HP X290 1000 B JD5 2m RPS Cable JD189A

HP X290 500/800 1m RPS Cable JD190A

HP X290 500 U 1m RPS Cable JD185A

Remarks: These cables are used to connect the External Power System to Switch.



Configuration - AF Models

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 5800AF-48G Switch JG225A

48 RJ-45 autosensing 10/100/1000 ports
 6 fixed 1000/10000 SFP+ ports
 Note:1

- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U- Height

Configuration Rules:

Note 1	The following Transceivers install into this switch: (Use #0D1 or #B01 if switch is CTO) If
	Applicable -

· · · · · · · · · · · · · · · · · · ·	
HP X130 SFP+ LC SR Transceiver	JD092B
HP X130 SFP+ LC LRM Transceiver	JD093B
HP X130 SFP+ LC LR Transceiver	JD094B
HP X240 10G SFP+ SFP+ 0.65m DAC Cable	JD095C
HP X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C
HP X240 10G SFP+ SFP+ 3m DAC Cable	JD097C
HP X240 10G SFP+ SFP+ 5m DAC Cable	JG081C
HP X240 10G SFP+ 7m DAC Cable	JC784C
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X110 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B
HP X115 100M SFP LC BX 10-U Transceiver	JD100A
HP X115 100M SFP LC BX 10-D Transceiver	JD101A
HP X125 1G SFP LC LH70 Transceiver	JD063B

Box Level Integration CTO Models

CTO Solution Sku

HP 58xx CTO Switch Solution JG478A

• SSP trigger sku

CTO Switch Chassis



See Configuration

Note:1, 2, 10

QuickSpecs

Configuration – AF Models

HP 5800AF-48G Switch JG225A

- 48 RJ-45 autosensing 10/100/1000 ports
- 6 fixed 1000/10000 SFP+ ports (min=0 \ max=6 SFP+ Transceivers)
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U- Height

Configuration Rules

The following Transceivers install into this switch: (Use #OD1 or #BO1 if switch is CTO) If Note 1

Applicable

HP X130 SFP+ LC SR Transceiver	JD092B
HP X130 SFP+ LC LRM Transceiver	JD093B
HP X130 SFP+ LC LR Transceiver	JD094B
HP X240 10G SFP+ SFP+ 0.65m DAC Cable	JD095C
HP X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C
HP X240 10G SFP+ SFP+ 3m DAC Cable	JD097C
HP X240 10G SFP+ SFP+ 5m DAC Cable	JG081C
HP X240 10G SFP+ 7m DAC Cable	JC784C
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X110 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B
HP X115 100M SFP LC BX 10-U Transceiver	JD100A
HP X115 100M SFP LC BX 10-D Transceiver	JD101A
HP X125 1G SFP LC LH70 Transceiver	JD063B

Switch Height is 2U if the JC682A - HP A58xOAF Bck(pwr)-Frt(ports) Fan Tray is ordered Note 2

#0D1 with this switch.

Note 10 If the Switch Chassis is to be Box Level Factory Integrated (CTO), Then the #0D1 is

required on the Switch Chassis and integrated to the JG478A - HP 58xx CTO Switch

Solution. (Max 1 switch per SSP)

Rack Level Integration CTO Models

CTO Switch Chassis

HP 5800AF-48G Switch JG225A



See Configuration

Note:1, 2, 4, 11

QuickSpecs

Configuration – AF Models

- 48 RJ-45 autosensing 10/100/1000 ports
- 6 fixed 1000/10000 SFP+ ports (min=0 \ max=6 SFP+ Transceivers)
- Must select min 1 Power Supply
- Must select min 2 Fan Trays
- 1U- Height

Configuration Rules:

Note 1 The following Transceivers install into this switch: (Use #OD1 or #B01 if switch is CTO) If

Applicable -

HP X130 SFP+ LC SR Transceiver	JD092B
HP X130 SFP+ LC LRM Transceiver	JD093B
HP X130 SFP+ LC LR Transceiver	JD094B
HP X240 10G SFP+ SFP+ 0.65m DAC Cable	JD095C
HP X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C
HP X240 10G SFP+ SFP+ 3m DAC Cable	JD097C
HP X240 10G SFP+ SFP+ 5m DAC Cable	JG081C
HP X240 10G SFP+ 7m DAC Cable	JC784C
HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X110 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B
HP X115 100M SFP LC BX 10-U Transceiver	JD100A
HP X115 100M SFP LC BX 10-D Transceiver	JD101A
HP X125 1G SFP LC LH70 Transceiver	JD063B

Note 2 If HP CTO Switch Chassis is selected to be Rack Level Integration (No SSP Sku), Then #B2B, or #B2C is

Required on the Power Supply's. (Optional when Switch is not Factory Racked. See Drop down remark in

"Power Supplies" section.)

Note 4 Switch Height is 2U if the JC682A - HP A58x0AF Bck(pwr)-Frt(ports) Fan Tray is ordered

#0D1 with this switch.

Note 11 If HP CTO Switch Chassis is selected to be Rack Level Integration, Then the JG225A - HP

5800AF-48G Switch needs to integrate (with #0D1) to the HP Universal Rack.

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

Internal Power Supplies



Configuration – AF Models

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

HP A58x0AF 650W AC Power Supply

JC680A See Configuration

includes 1 x c13, 650w

Note:1, 2, 3

C15 PDU NA

JC680A#B2B

• C15 to C14 Jumper Cord (NA)

C15 PDU ROW

JC680A#B2C

C15 to C14 Jumper Cord (ROW)

HP 58x0AF 650W DC Power Supply

JC681A

See Configuration Note:1

Configuration Rules:

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

Note 2 Localization required on orders without #B2B or #B2C options.

Note 3 If HP CTO Switch Chassis is selected to be Rack Level Integration is ordered #0D1 (No

SSP Sku) with this power supply, Then #B2B, or #B2C is Required on the Power Supply's. (Optional when Switch is not Factory Racked. See Drop down remark in "Power Supplies"

section.)

Remarks:

Drop down under power supply should offer the following options and results: Switch to PDU Power Cord - replace localized option with #B2B in AMS or #B2C in APJ

and EMEA.

Switch to Wall Power Cord - Should leave existing Localized Option (no #B2x options)

Transceivers

SFP Transceivers

HP X110 100M SFP LC LH40 Transceiver

HP X110 100M SFP LC LH80 Transceiver

JD090A

HP X115 100M SFP LC FX Transceiver JD102B

HP X110 100M SFP LC LX Transceiver JD120B

HP X115 100M SFP LC BX 10-U Transceiver JD100A



Configuration – AF Models	
HP X115 100M SFP LC BX 10-D Transceiver	JD101A
HP X120 1G SFP LC LH40 1550nm XCVR	JD062A
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X125 1G SFP LC LH40 1310nm XCVR	JD061A
HP X125 1G SFP LC LH70 Transceiver	JD063B
SFP+ Transceivers	
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+ SFP+ 0.65m DAC Cable	JD095C#B01
HP X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C#B01
HP X240 10G SFP+ SFP+ 3m DAC Cable	JD097C#B01
HP X240 10G SFP+ SFP+ 5m DAC Cable	JG081C#B01
HP X240 10G SFP+ 7m DAC Cable	JC784C#B01

Switch Options

Fan Trays

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

HP 58x0AF Bck(pwr)-Frt(ports) Fan Tray

JC682A **See Configuration**

Note:1, 2

HP 58x0AF Frt(ports)-Bck(pwr) Fan Tray

JC683A **See Configuration**

Note:1



Configuration – AF Models

Configuration Rules:

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

Note 2 This Fan Tray requires an Air Plenum kit for better air flow. The Air Plenum kit requires

1U of additional space in the rack.



Technical Specifications

HP 5800-24G-PoE+ Switch (JC099A)

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

802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

1 extended module slot

4 fixed 1000/10000 SFP+ ports 1 RJ-45 serial console port

Physical characteristics Dimensions 17.3(w) x 16.8(d) x 1.71(h) in (43.94 x 42.67 x 4.34 cm) (1U height)

Weight 17.64 lb (8 kg)

Memory and processor 1024 MB SDRAM, 512 MB flash; packet buffer size: 4 MB

Performance Latency 4.02 μs (Store and Forward) (64-byte packets)

Throughput 155 million pps **Routing/Switching** 208 Gbps

capacity

Routing table size 16000 entries
MAC address table size 32000 entries

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

Operating relative

humidity

10% to 90%

Acoustic Low-speed fan: 47.5 dB, High-speed fan: 52.4 dB

Electrical characteristics Maximum heat 2968 BTU/hr (3131.24 kJ/hr)

dissipation

Voltage 100-120/200-240 VAC

Frequency 50/60 Hz

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

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

NOM: ROHS Compliance

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR22 Class A; EN 61000-3-

2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A

Immunity Generic ETSI EN 300 386 V1.3.3

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

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

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

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

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

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

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

magnetic field

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

interruptions

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

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



Technical Specifications

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

HTTPS; RMON1; FTP

Services 3-year, 4-hour onsite, 13x5 coverage for hardware (UV882E)

3-year, 4-hour onsite, 24x7 coverage for hardware (UV885E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV888E)

3-year, 24x7 SW phone support, software updates (UV891E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR565E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support

(HR566E)

4-year, 4-hour onsite, 13x5 coverage for hardware (UV883E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV886E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV889E)

4-year, 24x7 SW phone support, software updates (UV892E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV884E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV887E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV890E)

5-year, 24x7 SW phone support, software updates (UV893E)

3 Yr 6 hr Call-to-Repair Onsite (UW969E) 4 Yr 6 hr Call-to-Repair Onsite (UW970E) 5 Yr 6 hr Call-to-Repair Onsite (UW971E)

1-year, 6 hour Call-To-Repair Onsite for hardware (HR568E) 1-year, 24x7 software phone support, software updates (HR567E)

1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange

1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS651E) 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS652E)

3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS653E) 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS654E)

4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS655E) 5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS656E)

5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS657E)

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

HP 5800-24G Switch (JC100A)

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

802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

1 extended module slot

4 fixed 1000/10000 SFP+ ports 1 RJ-45 serial console port

Physical characteristics Dimensions 17.32(w) x 14.35(d) x 1.72(h) in (44.0 x 36.45 x 4.36 cm) (1U height)

Weight 13.23 lb (6 kg)

Memory and processor 1024 MB SDRAM, 512 MB flash; packet buffer size: 4 MB



Technical Specifications

Performance Latency 4.02 μs (Store and Forward) (64-byte packets)

Throughput 155 million pps **Routing/Switching** 208 Gbps

capacity

Routing table size 16000 entries

MAC address table size 32000 entries

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

Operating relative

humidity

10% to 90%

Acoustic Low-speed fan: 42.3 dB, High-speed fan: 52.9 dB

Electrical characteristics Maximum heat 358 BTU/hr (377.69 kJ/hr)

dissipation

Voltage 100-120-240 VAC

Frequency 50/60 Hz

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

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

NOM; ROHS Compliance

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR22 Class A; EN 61000-3-

2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A

Immunity Generic ETSI EN 300 386 V1.3.3

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

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

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

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

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

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

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

magnetic field

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

interruptions

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

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

HTTPS; RMON1; FTP

Services 3-year, 4-hour onsite, 13x5 coverage for hardware (UV882E)

3-year, 4-hour onsite, 24x7 coverage for hardware (UV885E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV888E)

3-year, 24x7 SW phone support, software updates (UV891E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR565E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support

(HR566E)

Installation with minimum configuration, system-based pricing (UW451E)

4-year, 4-hour onsite, 13x5 coverage for hardware (UV883E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV886E)



Technical Specifications

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV889E)

4-year, 24x7 SW phone support, software updates (UV892E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV884E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV887E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV890E)

5-year, 24x7 SW phone support, software updates (UV893E)

3 Yr 6 hr Call-to-Repair Onsite (UW969E) 4 Yr 6 hr Call-to-Repair Onsite (UW970E) 5 Yr 6 hr Call-to-Repair Onsite (UW971E)

1-year, 6 hour Call-To-Repair Onsite for hardware (HR568E) 1-year, 24x7 software phone support, software updates (HR567E)

1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS650F)

1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS651E) 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS652E)

3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS653E) 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS654E)

4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS655E) 5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS656E)

5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS657E)

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

HP 5800-24G-SFP Switch with 1 Interface Slot (JC103A)

Ports 24 SFP fixed Gigabit Ethernet SFP ports

1 extended module slot

4 fixed 1000/10000 SFP+ ports 1 RJ-45 serial console port

Power supplies 2 power supply slots

1 minimum power supplies required (ordered separately)

Physical characteristics Dimensions 17.32(w) x 16.81(d) x 1.72(h) in (44.0 x 42.7 x 4.36 cm) (1U height)

Weight 18.74 lb (8.5 kg)

Memory and processor 1024 MB SDRAM, 512 MB flash; packet buffer size: 4 MB

Performance Latency 4.02 μs (Store and Forward) (64-byte packets)

Throughput 155 million pps **Routing/Switching** 208 Gbps

capacity

Routing table size 16000 entries
MAC address table size 32000 entries



Technical Specifications

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

Operating relative 10% to 90%

humidity

Acoustic Low-speed fan: 49.6 dB, High-speed fan: 58.1 dB

Electrical characteristics Maximum heat 498 BTU/hr (525.39 kJ/hr)

dissipation

 Voltage
 100-120/200-240 VAC

 DC voltage
 -48 VDC to -60 VDC

Frequency 50/60 Hz

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

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

NOM; ROHS Compliance

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR22 Class A; EN 61000-3-

2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A

Immunity Generic ETSI EN 300 386 V1.3.3

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

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

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

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

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

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

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

magnetic field

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

interruptions

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

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

HTTPS; RMON1; FTP

Notes Customer must order a power supply, as the device does not come with a PSU. At least one JD362A or

JD366A is required.

Services 3-year, 4-hour onsite, 13x5 coverage for hardware (UV882E)

3-year, 4-hour onsite, 24x7 coverage for hardware (UV885E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV888E)

3-year, 24x7 SW phone support, software updates (UV891E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR565E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support

(HR566E)

Installation with minimum configuration, system-based pricing (UW451E)

4-year, 4-hour onsite, 13x5 coverage for hardware (UV883E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV886E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV889E)

4-year, 24x7 SW phone support, software updates (UV892E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV884E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV887E)



Technical Specifications

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV890E)

5-year, 24x7 SW phone support, software updates (UV893E)

3 Yr 6 hr Call-to-Repair Onsite (UW969E) 4 Yr 6 hr Call-to-Repair Onsite (UW970E) 5 Yr 6 hr Call-to-Repair Onsite (UW971E)

1-year, 24x7 software phone support, software updates (HR567E)

1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS650E)

1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS651E) 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS652E)

3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS653E) 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS654E)

4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS655E) 5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS656E)

5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS657E)

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

HP 5800-48G-PoE+ Switch with 1 Interface Slot (JC104A)

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

802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

1 extended module slot

4 fixed 1000/10000 SFP+ ports 1 RJ-45 serial console port

Physical characteristics Dimensions 17.32(w) x 16.81(d) x 1.72(h) in (44.0 x 42.7 x 4.36 cm) (1U height)

Weight 18.74 lb (8.5 kg)

Memory and processor 1024 MB SDRAM, 512 MB flash; packet buffer size: 8 MB

Performance Latency 4.02 μs (Store and Forward) (64-byte packets)

Throughput 190 million pps **Routing/Switching** 256 Gbps

capacity

Routing table size 16000 entries
MAC address table size 32000 entries

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

Operating relative 10% to 90%

humidity

Acoustic Low-speed fan: 50.5 dB, High-speed fan: 57.9 dB



Technical Specifications

Electrical characteristics Maximum heat 3320 BTU/hr (3502.6 kJ/hr)

dissipation

Voltage 100-120/200-240 VAC

Frequency 50/60 Hz

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

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

NOM; ROHS Compliance

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR22 Class A; EN 61000-3-

2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A

Immunity Generic ETSI EN 300 386 V1.3.3

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

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

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

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

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

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

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

magnetic field

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

interruptions

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

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

Manager; Telnet; HTTPS; RMON1; FTP

Services 3-year, 4-hour onsite, 13x5 coverage for hardware (HQ063E)

3-year, 4-hour onsite, 24x7 coverage for hardware (HQ064E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (HQ067E)

3-year, 24x7 SW phone support, software updates (HQ066E)

1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR569E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR570E) Installation with minimum configuration, system-based pricing (UW451E)

4-year, 4-hour onsite, 13x5 coverage for hardware (HQ068E) 4-year, 4-hour onsite, 24x7 coverage for hardware (HQ069E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ076E)

4-year, 24x7 SW phone support, software updates (HQ074E) 5-year, 4-hour onsite, 13x5 coverage for hardware (HQ071E) 5-year, 4-hour onsite, 24x7 coverage for hardware (HQ072E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ077E)

5-year, 24x7 SW phone support, software updates (HQ075E)

3 Yr 6 hr Call-to-Repair Onsite (HQ065E) 4 Yr 6 hr Call-to-Repair Onsite (HQ070E) 5 Yr 6 hr Call-to-Repair Onsite (HQ073E)

1-year, 6 hour Call-To-Repair Onsite for hardware (HR573E) 1-year, 24x7 software phone support, software updates (HR572E)

1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates

(HR571E)



Technical Specifications

1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS666E)

1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS667E)

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

HP 5800-48G Switch with 1 Interface Slot (JC105A)

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

802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

1 extended module slot 4 fixed 1000/10000 SFP+ ports

1 RJ-45 serial console port

Physical characteristics Dimensions 17.32(w) x 14.45(d) x 1.72(h) in (44.0 x 36.7 x 4.36 cm) (1U height)

Weight 14.33 lb (6.5 kg)

Memory and processor 1024 MB SDRAM, 512 MB flash; packet buffer size: 8 MB

Performance Latency 4.02 μs (Store and Forward) (64-byte packets)

Throughput 190 million pps **Routing/Switching** 256 Gbps

capacity

Routing table size 16000 entries
MAC address table size 32000 entries

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

Operating relative

humidity

10% to 90%

Acoustic Low-speed fan: 45.3 dB, High-speed fan: 56.5 dB

Electrical characteristics Maximum heat 557 BTU/hr (587.64 kJ/hr)

dissipation

Voltage 100-120/200-240 VAC

Frequency 50/60 Hz

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

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

NOM: ROHS Compliance

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR22 Class A; EN 61000-3-

2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A

Immunity Generic ETSI EN 300 386 V1.3.3

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

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

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

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

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

Technical Specifications

Conducted EN 61000-4-6; IEC 61000-4-6 **Power frequency** IEC 61000-4-8; EN 61000-4-8

magnetic field

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

interruptions

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

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

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

HTTPS; RMON1; FTP

Services 3-year, 4-hour onsite, 13x5 coverage for hardware (HQ063E)

3-year, 4-hour onsite, 24x7 coverage for hardware (HQ064E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (HQ067E)

3-year, 24x7 SW phone support, software updates (HQ066E)

1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR569E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR570E) Installation with minimum configuration, system-based pricing (UW451E)

4-year, 4-hour onsite, 13x5 coverage for hardware (HQ068E) 4-year, 4-hour onsite, 24x7 coverage for hardware (HQ069E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ076E)

4-year, 24x7 SW phone support, software updates (HQ074E) 5-year, 4-hour onsite, 13x5 coverage for hardware (HQ071E) 5-year, 4-hour onsite, 24x7 coverage for hardware (HQ072E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ077E)

5-year, 24x7 SW phone support, software updates (HQ075E)

3 Yr 6 hr Call-to-Repair Onsite (HQ065E) 4 Yr 6 hr Call-to-Repair Onsite (HQ070E) 5 Yr 6 hr Call-to-Repair Onsite (HQ073E)

1-year, 6 hour Call-To-Repair Onsite for hardware (HR573E) 1-year, 24x7 software phone support, software updates (HR572E)

1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR571E)

1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS666E)

1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS667E)

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

HP 5800-48G Switch with 2 Slots (JC101A)

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

802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

2 extended module slots

1 open module slot

4 SFP fixed Gigabit Ethernet SFP ports

1 RJ-45 serial console port



Technical Specifications

Power supplies 2 power supply slots

1 minimum power supplies required (ordered separately)

Physical characteristics Dimensions 17.32(w) x 18.31(d) x 3.39(h) in (44.0 x 46.5 x 8.61 cm) (2U height)

Weight 39.7 lb (18.0 kg)

Memory and processor 1024 MB SDRAM, 512 MB flash; packet buffer size: 8 MB

Performance Latency 4.02 μs (Store and Forward) (64-byte packets)

Throughput 211 million pps **Routing/Switching** 284 Gbps

capacity

Routing table size 16000 entries
MAC address table size 32000 entries

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

Operating relative

humidity

10% to 90%

Acoustic Low-speed fan: 54 dB, High-speed fan: 58.5 dB

Electrical characteristics Maximum heat 6278 BTU/hr (6623.29 kJ/hr)

dissipation

Voltage 100-120/200-240 VAC

DC Voltage 300 W DC: -48 VDC to -60 VDC; 750 W DC: -54 VDC to -57 VDC

Frequency 50/60 Hz

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

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

NOM; ROHS Compliance

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR22 Class A; EN 61000-3-

2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A

Immunity Generic ETSI EN 300 386 V1.3.3

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

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

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

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

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

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

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

magnetic field

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

interruptions

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

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

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

HTTPS; RMON1; FTP

Notes Customer must order power supply, as the device does not come with a PSU. At least one

JC087A/JC090A/JC089A is required.



Technical Specifications

Services

3-year, 4-hour onsite, 13x5 coverage for hardware (HQ063E)

3-year, 4-hour onsite, 24x7 coverage for hardware (HQ064E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (HQ067E)

3-year, 24x7 SW phone support, software updates (HQ066E)

1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR569E) 1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR570E) Installation with minimum configuration, system-based pricing (UW451E)

4-year, 4-hour onsite, 13x5 coverage for hardware (HQ068E) 4-year, 4-hour onsite, 24x7 coverage for hardware (HQ069E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ076E)

4-year, 24x7 SW phone support, software updates (HQ074E) 5-year, 4-hour onsite, 13x5 coverage for hardware (HQ071E) 5-year, 4-hour onsite, 24x7 coverage for hardware (HQ072E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ077E)

5-year, 24x7 SW phone support, software updates (HQ075E)

3 Yr 6 hr Call-to-Repair Onsite (HQ065E) 4 Yr 6 hr Call-to-Repair Onsite (HQ070E) 5 Yr 6 hr Call-to-Repair Onsite (HQ073E)

1-year, 6 hour Call-To-Repair Onsite for hardware (HR573E) 1-year, 24x7 software phone support, software updates (HR572E)

1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR571E)

1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS666E)

1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS667E)

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

HP 5800AF-48G Switch (JG225A)

Ports

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

802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

6 fixed 1000/10000 SFP+ ports 1 RJ-45 serial console port

1 RJ-45 out-of-band management port

1 USB 2.0

Power supplies

2 power supply slots

1 minimum power supply required (ordered separately)

Fan tray 2 fan tray slots

The customer must order fan trays, as fan trays are not included with the switch. This system requires two same-direction airflow fan trays to function properly. The system should not be operated with only one fan tray for more than 24 hours. The system should not be operated without a fan tray more than two minutes. The system should not be operated outside of the temperature range of 32°F (0°C) to 113°F

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

Physical characteristics Dimensions 17.32(w) x 25.98(d) x 1.72(h) in (43.99 x 65.99 x 4.37 cm) (1U height)

Weight 22.05 lb (10 kg), Fully loaded

Memory and processor 1024 MB flash, 512 MB SDRAM; packet buffer size: 8 MB



Technical Specifications

Performance Latency < 5 μs (64-byte packets)

Throughput 161 million pps **Routing/Switching** 216 Gbps

capacity

Routing table size 16000 entries

MAC address table size 32000 entries

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

Operating relative

humidity

10% to 90%

Acoustic Low-speed fan: 60.1 dB, High-speed fan: 69.9 dB

Electrical characteristics Maximum heat 426 BTU/hr (449.43 kJ/hr)

dissipation

Voltage 100-120/200-240 VAC **DC Voltage** 650W DC: -36 VDC to -72 VDC

Frequency 50/60 Hz

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

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

NOM; ROHS Compliance

Emissions VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR22 Class A; EN 61000-3-

2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A

Immunity Generic ETSI EN 300 386 V1.3.3

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

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

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

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

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

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

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

magnetic field

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

interruptions

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

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

HTTPS; RMON1; FTP

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

JC681A is required.

Services Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions

and product numbers. For details about services and response times in your area, please contact your local

HP sales office.

Standards and protocols General protocols RFC 4022 MIB for TCP

(applies to all products in IEEE 802.1ag Service Layer OAM RFC 4251 SSHv6 Architecture

series) IEEE 802.1D MAC Bridges RFC 4252 SSHv6 Authentication

Technical Specifications

RFC 4253 SSHv6 Transport Layer IEEE 802.1p Priority RFC 4254 SSHv6 Connection IEEE 802.10 VLANs **IEEE 802.1s (MSTP)** RFC 4293 MIB for IP RFC 4419 Key Exchange for SSH IEEE 802.1v VLAN classification by Protocol and RFC 4443 ICMPv6 Port RFC 4541 IGMP & MLD Snooping Switch IEEE 802.1w Rapid Reconfiguration of Spanning RFC 4861 IPv6 Neighbor Discovery Tree RFC 4862 IPv6 Stateless Address Auto-configuration IEEE 802.1X PAE IEEE 802.3ad Link Aggregation Control Protocol **MIBs** IEEE 802.3ae 10-Gigabit Ethernet IEEE 8021-PAE-MIB IEEE 802.3af Power over Ethernet IEEE 8023-LAG-MIB IEEE 802.3at RFC 1213 MIB II IEEE 802.3x Flow Control RFC 1493 Bridge MIB RFC 1657 BGP-4 MIB RFC 768 UDP RFC 792 ICMP RFC 1724 RIPv2 MIB RFC 793 TCP RFC 1850 OSPFv2 MIB RFC 826 ARP RFC 2011 SNMPv2 MIB for IP **RFC 854 TELNET** RFC 2013 SNMPv2 MIB for UDP RFC 925 Multi-LAN Address Resolution RFC 2233 Interface MIB RFC 2273 SNMP-NOTIFICATION-MIB **RFC 951 BOOTP** RFC 1058 RIPv1 RFC 2452 IPV6-TCP-MIB RFC 1350 TFTP Protocol (revision 2) RFC 2454 IPV6-UDP-MIB RFC 1519 CIDR RFC 2465 IPv6 MIB RFC 1542 BOOTP Extensions RFC 2466 ICMPv6 MIB RFC 1812 IPv4 Routing RFC 2571 SNMP Framework MIB RFC 2131 DHCP RFC 2572 SNMP-MPD MIB RFC 2573 SNMP-Notification MIB RFC 2236 IGMP Snooping RFC 2618 RADIUS Client MIB RFC 2370 OSPF Opaque LSA Option RFC 2385 TCP MD5 Authentication for BGPv4 RFC 2620 RADIUS Accounting MIB RFC 2453 RIPv2 RFC 2665 Ethernet-Like-MIB RFC 2475 Architecture for Differentiated Services RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 2597 Assured Forwarding PHB Group RFC 2688 MAU-MIB RFC 3046 DHCP Relay Agent Information Option RFC 2787 VRRP MIB RFC 3209 RSVP-TE Extensions to RSVP for LSP RFC 2819 RMON MIB **Tunnels** RFC 2925 Ping MIB RFC 3576 Ext to RADIUS (CoA only) RFC 3414 SNMP-User based-SM MIB RFC 3584 Coexistence between Version 1 and RFC 3415 SNMP-View based-ACM MIB Version 2 of the Internet-standard Network RFC 3418 MIB for SNMPv3 Management Framework **RFC 3621 Power Ethernet MIB** RFC 3623 Graceful OSPF Restart RFC 3826 AES for SNMP's USM MIB RFC 3768 VRRP RFC 4133 Entity MIB (Version 3) RFC 4090 Fast Reroute Extensions to RSVP-TE for LLDP-EXT-DOT1-MIB LSP Tunnels LLDP-EXT-DOT3-MIB

IP multicast

RFC 2934 Protocol Independent Multicast MIB for IPv4

RFC 4291 IP Version 6 Addressing Architecture

Label Distribution Protocol (LDP) Signaling

RFC 4762 Virtual Private LAN Service (VPLS) Using

RFC 4675 RADIUS VLAN & Priority

Network management

LLDP-MIB

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



Technical Specifications

RFC 3376 IGMPv3 (host joins only)

RFC 3618 Multicast Source Discovery Protocol (MSDP)

RFC 3973 Draft 2 PIM Dense Mode

RFC 4601 PIM Sparse Mode

IPv6

RFC 2080 RIPng for IPv6

RFC 2460 IPv6 Specification

RFC 2710 Multicast Listener Discovery (MLD) for

RFC 2740 OSPFv3 for IPv6

RFC 2925 Remote Operations MIB (Ping only)

RFC 3019 MLDv1 MIB

RFC 3162 RADIUS and IPv6

RFC 3315 DHCPv6 (client and relay)

RFC 3315 DHCPv6 (client only)

RFC 3810 MLDv2 (host joins only)

(LLDP-MED) SNMPv1/v2c/v3

OSPF

RFC 2328 OSPFv2 RFC 3101 OSPF NSSA

Security

IEEE 802.1X Port Based Network Access Control

RFC 1492 TACACS+

RFC 2865 RADIUS (client only)

RFC 2866 RADIUS Accounting

Access Control Lists (ACLs)

Secure Sockets Layer (SSL)

SSHv2 Secure Shell



Accessories

HP 5800 Switch Series accessories

HP 5800 4-port 10GbE SFP+ Module HP 5800 16-port Gig-T Module JC095A Transceivers HP X124 1G SFP LC LH40 1310nm Transceiver HP X124 1G SFP LC LH40 1550nm Transceiver HP X125 1G SFP LC LH40 1550nm Transceiver HP X120 1G SFP LC LH40 1550nm Transceiver JD063B HP X120 1G SFP LC LX Transceiver JD1118B HP X120 1G SFP LC LX Transceiver JD118B HP X120 1G SFP LC LX Transceiver JD119B HP X120 1G SFP LC BX 10-U Transceiver JD098B HP X120 1G SFP LC BX 10-U Transceiver JD099B HP X110 100M SFP LC LH40 Transceiver JD099B HP X110 100M SFP LC LH40 Transceiver JD099B HP X110 100M SFP LC LK Transceiver JD099B HP X110 100M SFP LC LK Transceiver JD099B HP X110 100M SFP LC LK Transceiver JD099B HP X130 105 SFP LC LK Transceiver JD099B HP X130 SFP LC LK Transceiver JD094B HP X130 SFP LC LK Transceiver JD094B HP X130 SFP LC LK Transceiver JD094B HP X130 105 SFP LC LK Transceiver JD094B HP X130 105 SFP LC LK Transceiver JD095B HP X130 SFP LC LK Transceiver JD095B HP X140 106 SFP + to SFP + 0.65m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 1.2m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 1.2m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m Direct Attach Copper Cable HP X240 106 SFP + to SFP + 5m
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HP X110 100M SFP LC FX Transceiver HP X110 100M SFP LC LX Transceiver JD120B HP X130 SFP+ LC SR Transceiver JD092B HP X130 SFP+ LC LRM Transceiver JD093B HP X130 SFP+ LC LR Transceiver JD094B HP X130 10G SFP+ LC ER 40km Transceiver JG234A HP X240 10G SFP+ LC ER 40km Transceiver HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable JD095C HP X240 10G SFP+ to SFP+ 3m 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 JC784C Cables HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable QK733A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable QK734A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable QK735A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable QK735A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable QK736A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable QK737A Power Supply HP 5800/5500 150W AC Power Supply HP 5800 300W AC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC087A HP 5800 300W DC Power Supply JC087A
HP X110 100M SFP LC LX Transceiver HP X130 SFP+ LC SR Transceiver JD092B HP X130 SFP+ LC LRM Transceiver JD093B HP X130 SFP+ LC LRM Transceiver JD094B HP X130 SFP+ LC LR Transceiver JD094B HP X130 10G SFP+ LC ER 40km Transceiver JG234A HP X240 10G SFP+ LC ER 40km Transceiver HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable JD095C HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable JD096C HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable JG081C HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable JC784C Cables HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable QK733A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable QK735A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable QK735A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable QK736A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable QK737A Power Supply HP 5800/5500 150W AC Power Supply HP 5800 300W AC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC087A HP 5800 300W DC Power Supply JC087A
HP X130 SFP+ LC SR Transceiver HP X130 SFP+ LC LRM Transceiver JD093B HP X130 SFP+ LC LR Transceiver JD094B HP X130 10G SFP+ LC LR Transceiver JG234A HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 7m Direct Attach Copper Cable HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable Cables HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable HP S800/5500 150W AC Power Supply HP 5800/5500 150W AC Power Supply JD366A HP 5800 300W AC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply
HP X130 SFP+ LC LRM Transceiver HP X130 SFP+ LC LR Transceiver HP X130 10G SFP+ LC ER 40km Transceiver HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable Cables HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable Power Supply HP 5800/5500 150W AC Power Supply HP 5800/5500 150W AC Power Supply HP 5800 300W AC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC087A
HP X130 SFP+ LC LR Transceiver HP X130 10G SFP+ LC ER 40km Transceiver HP X240 10G SFP+ LC SFP+ 0.65m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable Cables HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable Power Supply HP 5800/5500 150W AC Power Supply HP 5800 300W AC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC080A
HP X130 10G SFP+ LC ER 40km Transceiver HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable HP Y240 10G SFP+ SFP+ 7m Direct Attach Copper Cable Cables HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable Power Supply HP 5800/5500 150W AC Power Supply HP 5800/5500 150W DC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC087A
HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable Cables HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable HP S800/5500 150W AC Power Supply JD366A HP 5800 300W AC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC080A
HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable Cables HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable Power Supply HP 5800/5500 150W AC Power Supply HP 5800/5500 150W DC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC087A
HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable UC784C Cables HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable HP S800/5500 150W AC Power Supply HP 5800/5500 150W AC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC087A
HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable Cables HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable Power Supply HP 5800/5500 150W AC Power Supply HP 5800/5500 150W DC Power Supply HP 5800 300W AC Power Supply JD366A HP 5800 300W DC Power Supply JC087A HP 5800 300W DC Power Supply JC090A
HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable Cables HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable QK733A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable QK734A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable QK735A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable QK736A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable QK737A Power Supply HP 5800/5500 150W AC Power Supply HP 5800/5500 150W DC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC087A
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HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable Power Supply HP 5800/5500 150W AC Power Supply HP 5800/5500 150W DC Power Supply HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC090A
HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 5m Cable QK734A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable QK735A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable QK736A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable QK737A Power Supply HP 5800/5500 150W AC Power Supply HP 5800/5500 150W DC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC090A
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HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 15m Cable HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 30m Cable QK736A HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable QK737A Power Supply HP 5800/5500 150W AC Power Supply HP 5800/5500 150W DC Power Supply JD366A HP 5800 300W AC Power Supply HP 5800 300W DC Power Supply JC087A HP 5800 300W DC Power Supply JC090A
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HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 50m Cable Power Supply HP 5800/5500 150W AC Power Supply HP 5800/5500 150W DC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC090A
Power Supply HP 5800/5500 150W AC Power Supply JD362A HP 5800/5500 150W DC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC090A
HP 5800/5500 150W AC Power Supply JD362A HP 5800/5500 150W DC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC090A
HP 5800/5500 150W DC Power Supply JD366A HP 5800 300W AC Power Supply JC087A HP 5800 300W DC Power Supply JC090A
HP 5800 300W AC Power Supply HP 5800 300W DC Power Supply JC087A JC090A
HP 5800 300W DC Power Supply JC090A
HP 5800 750W AC PoE Power Supply JC089A
• • •
HP RPS 800 Redundant Power Supply JD183A
HP RPS1600 Redundant Power System JG136A
HP RPS1600 1600W AC Power Supply JG137A
EPS/RPS
HP 5800 PoE Module JC097B



HP 5800 Switch Series

QuickSpecs

Accessories

Fan Tray	
HP 5800 2RU Spare Fan Assembly	JC096A
HP 5800 1RU Spare Fan Assembly	JC098A
Appliance	
HP 5820 VPN Firewall Module	JD255A
HP 5800-48G Switch with 2 Slots (JC101A)	
HP 5820 VPN Firewall Module	JD255A
HP 5800AF-48G Switch (JG225A)	
HP 58x0AF 650W AC Power Supply	JC680A
HP 58x0AF 650W DC Power Supply	JC681A
HP 58x0AF Back (power side) to Front (port side) Airflow Fan Tray	JC682A
HP 58x0AF Front (port side) to Back (power side) Airflow Fan Tray	JC683A



Accessory Product Details

A small form-factor pluggable SFP Gigabit LH40

transceiver that provides a

full duplex Gigabit solution

up to 40km on a single-

mode fiber.

(JD062A)

A small form-factor

pluggable (SFP) Gigabit

LH40 transceiver that

provides a full-duplex

Gigabit solution up to 40

km on a single mode fiber.

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

HP X125 1G SFP LC LH40 Ports 1 LC 1000Base-LH port (no IEEE standard exists for 1550 nm optics)

1310nm Transceiver Connectivity Connector type LC (JD061A) Wavelength 13:

A) Wavelength 1310 nm

Physical characteristics Dimensions 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17

Full configuration weight 0.04 lb. (0.02 kg)

Electrical characteristics Power consumption typical 0.8 W

Power consumption 1.0 W maximum

Cabling Cable type:

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

Maximum distance:

40km distance

Fiber type Single Mode

Services Refer to the HP website at: www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP X120 1G SFP LC LH40 Ports 1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)

1550nm Transceiver Connectivity Connector type I C

Connectivity Connector type LC Wavelength 1550 nm

Physical characteristics Dimensions 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17

cm)

Full configuration weight 0.04 lb. (0.02 kg)

Electrical characteristics Power consumption typical 0.8 W

Power consumption 1.0 W

maximum 1.0 W

Cabling Cable type:

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

Maximum distance:

40km distance

Fiber type Single Mode

Services Refer to the HP website at: www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.



Accessory Product Details

A small form-factor pluggable (SFP) Gigabit

LH70 transceiver that

provides a full-duplex

Gigabit solution up to

fiber.

70km on a single-mode

transceiver that provides a

full-duplex Gigabit solution

HP X125 1G SFP LC LH70 Ports 1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)

Transceiver (JD063B) Connectivity Connector type LC

Wavelength 1550 nm

Physical characteristics Dimensions 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17

cm)

Full configuration weight 0.04 lb. (0.02 kg)

Electrical characteristics Power consumption 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

Fiber type Single Mode

Services Refer to the HP website at: www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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

Transceiver (JD118B) Connectivity Connector type LC

A small form-factor Wavelength 850 nm

pluggable (SFP) Gigabit SX **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)

up to 550m on a Multimode Electrical characteristics Power consumption 0.8 W

typical

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 HP website at: www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Accessory Product Details

full duplex Gigabit solution

up to 550m on MMF or

1000Base-T transceiver that provides a full duplex

Gigabit solution up to

100m on a Cat-5+ cable.

10Km on SMF

HPX1201GSFPLCLX Ports 1 SFP 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX)

Transceiver (JD119B) **Connectivity** LC **Connector type**

Wavelength 1300 nm A small form-factor

pluggable (SFP) Gigabig LX Physical characteristics **Dimensions** 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 transceiver that provides a

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 HP website at: www.hp.com/networking/services for details on

> the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP X125 1G SFP RJ45 T Ports 1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T)

Transceiver (JD089B) **Connectivity Connector type RJ-45**

Physical characteristics Dimensions 2.71(d) x 0.54(w) x 0.55(h) in. (6.88 x 1.37 x 1.4 A small form factor cm) pluggable (SFP) Gigabit

Full configuration weight 0.07 lb. (0.03 kg)

Electrical characteristics Power consumption typical

Power consumption 1.0 W

maximum

Cabling 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,

0.8 W

complying with IEEE 802.3ab 1000BASE-T;

Maximum distance:

• 100m

Services Refer to the HP website at: www.hp.com/networking/services for details on

> the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Accessory Product Details

U Transceiver (JD098B)

BX10-U transceiver that

10km on a single mode

cable.

provides a full duplex Gigabit solution up to

HP X120 1G SFP LC BX 10- Ports 1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-U); Duplex:

full only

Connectivity Connector type LC A small form-factor

Physical characteristics Dimensions 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 pluggable (SFP) Gigabit LX-

Full configuration weight 0.04 lb. (0.02 kg)

Electrical characteristics Power consumption 0.8 W

typical

Power consumption 1.0 W

maximum

Cabling Maximum distance:

• 10km

Fiber type Single Mode

Notes TX 1310nm RX 1490nm

Services Refer to the HP website at: www.hp.com/networking/services for details on

> the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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

HP X120 1G SFP LC BX 10- Ports

pluggable (SFP) Gigabit LX-BX10-D transceiver that

A small form-factor

provides a full duplex Gigabit solution up to

10km on a single mode

cable.

D Transceiver (JD099B) full only

> 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 **Physical characteristics Dimensions**

LC

Full configuration weight 0.04 lb. (0.02 kg)

Connector type

Electrical characteristics Power consumption 0.8 W

typical

Power consumption 1.0 W maximum

Maximum distance: Cabling

Connectivity

• Up to 10km

Fiber type Single Mode

Notes TX 1490nm RX 1310nm

Services Refer to the HP website at www.hp.com/networking/services for details on

> the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Accessory Product Details

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

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

- Core Diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade Low Smoke Zero Halogen (LSZH) thermoplastic
- · Boot Color: White
- Outer Jacket Print: HP PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable.
- \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 HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable (QK733A) Notes

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

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

Services

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

Accessory Product Details

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

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

- Core diameter: 50um ±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 HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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

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

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

Services

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

Accessory Product Details

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable (QK736A) 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 HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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

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

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

Services

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

Accessory Product Details

HP RPS1600 Redundant Power System (JG136A)

Ports 8 redundant power supply ports

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

Physical characteristics Dimensions 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42

cm)

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

humidity

5% to 95%

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)

Acoustic Pressure: 53 dB; ISO 7779, ISO 9296

Electrical characteristics Voltage 100-120/200-240 VAC

30/60 A Current Idle power 38 W **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 HP website at: www.hp.com/networking/services for details on

the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Accessory Product Details

HP RPS1600 1600W AC Power Supply (JG137A) **Physical characteristics Dimensions** 8.19(d) x 4.96(w) x 1.63(h) in. (20.8 x 12.6 x 4.15

cm)

Weight 3.02 lb. (1.37 kg)

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

Operating relative

humidity

5% to 95%

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%

Electrical characteristics Voltage 100-120/200-240 VAC

> Current 15/30 A 1600 W **Maximum power rating** 50/60 Hz Frequency

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.

Refer to the HP website at: www.hp.com/networking/services for details on Services

> the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP A5820 VPN Firewall Module (JD255A)

Ports 2 RJ-45 auto-negotiating 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX,

IEEE 802.3ab Type 1000BASE-T)

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

1 RJ-45 serial console port 1 Compact Flash port

Physical characteristics Dimensions 9.84(d) x 9.84(w) x 14.45(h) in. (25 x 25 x 36.7 cm)

> Weight 7.72 lb. (3.5 kg)

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

> Operating relative 10% to 95%, noncondensing

humidity

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

HTTPS; RMON1; FTP

Features Performance

> - 6.5Gbps Firewall Throughput - 1.8M Concurrent connection - 50K New connection per second - Max 20480 security policies

- 2Gbps 3DES/AES VPN Throughput

- 5000 IPSec tunnel



Accessory Product Details

- 4K VLAN
- Firewall operation mode
- Routing mode
- Transparent mode
- Hybrid mode

AAA service

- Local Authentication
- Standard Radius
- HWTACACS+
- RADIUS domain Authentication

ASPF

- General TCP / UDP application
- FTP/SMTP/HTTP/RTSP/H323 Protocol State Detection
- SIP/MGCP/QQ/MSN Protocol State Detection
- Java/ActiveX Blocking and Detection
- Port mapping
- Support for the fragmented packets

Virtualization

- 256 Virtual Firewall
- 4 default Security Zone
- Max 256 Security Zone

NAT

- NAPT
- PAT
- NAT Server
- Port mapping
- Bidirectional NAT
- Static NAT

Network Security

- Add blacklist by hand or automatically
- IP+MAC Binding
- ARP Reverse Query
- ARP Cheat Check
- Management ports closed by default

DDOS

- DNS Query Flood
- SYN Flood
- Auto start TCP Proxy when Detect SYN Flood
- ICMP Flood
- UDP Flood
- IP Spoofing
- SQL injection filter

L2TP VPN

- LNS,LAC
- L2TP Multi-instance

GRE

- GRE tunneling protocol

IPSec

- AH/ESP
- ESP
- Transport/tunnel
- NAT traversal



Accessory Product Details

- Strategy template
- **IKE**
- DH
- Pre-share Key authentication-method
- Support aggressive mode and main exchange mode
- IKE DPD, PKI / CA

Network Feature

- -802.1q VLAN
- 4K sub-interface
- Static and dynamic ARP
- Multicast, PIM
- IGMP v1/v2/v3

Routing

- RIP
- OSPF
- BGP
- Static Route
- policy Route

High Availability

- Active/Active mode
- Active/Passive mode
- Session Synchronization for Firewall

System management

- Web Management support IE/Firefox
- Command line interface (Console/Telnet/SSH)
- Classification Manager
- Unified management through iMC
- SNMPv1/v2c/v3

Administration

- Software Upgrades
- Configuration Backup and Restore

Logging/Monitoring

- Syslog
- Mini RMON
- NTP
- NAT/ASPF/firewall log stream(Binary log)

IPv6 Routing & Multicast

- RIPng
- OSPFv3
- BGP4+
- Static Route
- Policy Route
- PIM-SM/DM

IPv6 Security

- NAT-PT
- Manual tunnel
- IPV6 OVER ipv4 GRE tunnel
- 6to4 tunnel (RFC3056)
- ISATAP Tunnel
- IPv6 Packet Filter
- Radius
- NAT64



Accessory Product Details

Services

3-year, parts only, global next-day advance exchange (UZ914E)

3-year, 4-hour onsite, 13x5 coverage for hardware (UZ915)

3-year, 4-hour onsite, 24x7 coverage for hardware (UZ918E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UZ922E)

3-year, 24x7 SW phone support, software updates (UZ925E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UZ916E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UZ919E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UZ923E)

4-year, 24x7 SW phone support, software updates (UZ926E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UZ917E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UZ920E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UZ924E)

5-year, 24x7 SW phone support, software updates (UZ927E)

3 Yr 6 hr Call-to-Repair Onsite (UZ928E) 4 Yr 6 hr Call-to-Repair Onsite (UZ929E) 5 Yr 6 hr Call-to-Repair Onsite (UZ930E)

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

Standards and protocols

IPv6

RFC 1981 IPv6 Path MTU Discovery RFC 2460 IPv6 Specification

RFC 2465 Management Information Base for IP Version 6: Textual Conventions and General Group(partially support, only "IPv6 Interface Statistics table")

RFC 3484 Default Address Selection for IPv6

RFC 3513 IPv6 Addressing Architecture RFC 3587 IPv6 Global Unicast Address Format

RFC 4007 IPv6 Scoped Address Architecture

Security

RFC 1321 The MD5 Message-Digest Algorithm RFC 1334 PPP Authentication Protocols (PAP)

RFC 1994 PPP Challenge Handshake Authentication Protocol (CHAP)

RFC 2104 Keyed-Hashing for Message

Authentication

RFC 2138 RADIUS Authentication

RFC 2618 RADIUS Authentication Client MIB

RFC 2620 RADIUS Accounting Client MIB

RFC 2716 PPP EAP TLS Authentication Protocol

RFC 2865 RADIUS Authentication

RFC 2866 RADIUS Accounting

RFC 2867 RADIUS Accounting Modifications for

Tunnel Protocol Support

RFC 2868 RADIUS Attributes for Tunnel Protocol

Support

RFC 2869 RADIUS Extensions

RFC 2405 The ESP DES-CBC Cipher Algorithm With Explicit IV

RFC 2406 IP Encapsulating Security Payload (ESP) RFC 2410 The NULL Encryption Algorithm and Its Use With IPsec

RFC 2411 IP Security Document Roadmap RFC 2451 The ESP CBC-Mode Cipher Algorithms RFC 2473 Generic Packet Tunneling in IPv6 Specification

RFC 2529 Transmission of IPv6 over IPv4 Domains without Explicit Tunnels

RFC 4862 IPv6 Stateless Address Auto-configuration RFC 2661 Layer Two Tunneling Protocol "L2TP" RFC 2784 Generic Routing Encapsulation (GRE) RFC 2868 RADIUS Attributes for Tunnel Protocol Support

> RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers

> RFC 3602 The AES-CBC Cipher Algorithm and Its Use with IPsec

RFC 4214 Intra-Site Automatic Tunnel Addressing Protocol (ISATAP)

IKEv1

RFC 2407 The Internet IP Security Domain of Interpretation for ISAKMP

RFC 2408 Internet Security Association and Key Management Protocol (ISAKMP).

RFC 2409 The Internet Key Exchange (IKE)

RFC 2412 The OAKLEY Key Determination Protocol RFC 3526 More Modular Exponential (MODP)

Diffie-Hellman groups for Internet Key Exchange

Accessory Product Details

draft-grant-tacacs-02 (TACACS)

VPN

RFC 1701 Generic Routing Encapsulation (GRE) RFC 1702 Generic Routing Encapsulation over IPv4 networks.

RFC 1828 IP Authentication using Keyed MD5

RFC 1829 The ESP DES-CBC Transform

RFC 1853 IP in IP Tunneling

RFC 2085 HMAC-MD5 IP Authentication with

Replay Prevention

RFC 2401 Security Architecture for the Internet

Protocol

RFC 2402 IP Authentication Header

RFC 2403 The Use of HMAC-MD5-96 within ESP

and AH

RFC 2404 The Use of HMAC-SHA-1-96 within ESP

and AH

(IKE)

RFC 3706 A Traffic-Based Method of Detecting Dead Internet Key Exchange (IKE) Peers

PKI

RFC 2510 Internet X.509 Public Key Infrastructure Certificate Management Protocols

RFC 2511 Internet X.509 Certificate Request

Message Format

RFC 3279 Algorithms and Identifiers for the Internet X.509 Public Key Infrastructure Certificate and

Certificate Revocation List (CRL) Profile

RFC 3280 Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL)

Profile

draft-nourse-scep-06:

PKCS#1 PKCS#10

PKCS#12 PKCS#7

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