Overview

Models

HP 5500-24G SI Switch with 2 Interface Slots	JD369A
HP 5500-48G SI Switch with 2 Interface Slots	JD370A
HP 5500-24G-PoE+ SI Switch with 2 Interface Slots	JG238A
HP 5500-48G-PoE+ SI Switch with 2 Interface Slots	JG239A

Key features

- Managed Layer 2 and Layer 3 GbE connectivity
- High performance
- Enterprise-class security features
- Application convergence capable
- Easy to use and manage

Product overview

These Gigabit Ethernet switches deliver quad-speed performance, 10/100/1000 and 10 Gigabit Ethernet, as well as advanced voice-enhanced features such as Power over Ethernet (PoE), auto-voice VLAN, and Quality of Service (QoS). As a result, they are ideal for enterprise organizations seeking to build a secure, convergence-enhanced campus network. Robust IPv6 support and 10 Gigabit Ethernet uplinks future-proof an enterprise network against obsolescence. Resilient Ring Protection Protocol (RRPP), Smart Link, and Intelligent Resilient Framework (IRF) deliver 50 ms switchover and carrier-class reliability.

Features and benefits

Quality of Service (QoS)

- Broadcast control: allows limitation of broadcast traffic rate to cut down on unwanted broadcast traffic on the network
- Advanced classifier-based QoS: classifies traffic using multiple match criteria based on Layer 2, 3, and 4 information; applies
 QoS policies such as setting priority level and rate limit to selected
 traffic on a port, VLAN, or whole switch
- **Powerful QoS feature**: supports the following congestion actions: strict priority queuing (SP), weighted round robin queuing, and SP+WRR
- Traffic policing: supports Committed Access Rate (CAR) and line rate

Management

- Friendly port names: allow assignment of descriptive names to ports
- Remote configuration and management: is available through a secure Web browser or a CLI
- Manager and operator privilege levels: enable read-only (operator) and read/write (manager) access on CLI and Web browser management interfaces
- **Command authorization**: leverages HWTACACS to link a custom list of CLI commands to an individual network administrator's login; also provides an audit trail
- Secure Web GUI: provides a secure, easy-to-use graphical interface for configuring the module via HTTPS
- Multiple configuration files: can be stored to the flash image
- Complete session logging: provides detailed information for problem identification and resolution
- SNMPv1, v2c, and v3: facilitate centralized discovery, monitoring, and secure management of networking devices



Overview

- **Remote monitoring** (RMON): uses standard SNMP to monitor essential network functions; supports events, alarm, history, and statistics group plus a private alarm extension group
- **IEEE 802.1AB Link Layer Discovery Protocol** (LLDP): advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications
- **sFlow** (RFC 3176): provides scalable ASIC-based wirespeed network monitoring and accounting with no impact on network performance; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes
- Management VLAN: segments traffic to and from management interfaces, including CLI/telnet, a Web browser interface, and SNMP
- Remote Intelligent Mirroring: mirrors ingress/egress ACL-selected traffic from a switch port or VLAN to a local or remote switch port anywhere on the network
- **Device Link Detection Protocol** (DLDP): monitors a cable between two switches and shuts down the ports on both ends if the cable is broken, preventing network problems such as loops
- **IPv6 management**: future-proofs networking, as the switch is capable of being managed whether the attached network is running IPv4 or IPv6; supports pingv6, tracertv6, Telnetv6, TFTPv6, DNSv6, syslogv6, FTPv6, SNMPv6, DHCPv6, and RADIUS for IPv6
- **Troubleshooting**: ingress and egress port monitoring enable network problem solving; virtual cable tests provide visibility into cable problems

Connectivity

- Auto-MDIX: automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports
- Flow control: provides back pressure using standard IEEE 802.3x, reducing congestion in heavy traffic situations
- Ethernet operations, administration and maintenance (OAM)
 detects data link layer problems that occurred in the "last mile" using the IEEE 802.3ah OAM standard; monitors the status of the link between two devices
- Jumbo packet support: supports up to 9216-byte frame size to improve the performance of large data transfers
- **Optional 10 GbE ports**: deliver, through the use of optional modules, additional 10GbE connections, which are available for uplinks or high-bandwidth server connections; flexibly support copper, XFP, SFP+, or CX4 local connections
- **IEEE 802.3at Power over Ethernet (PoE+) support**: simplifies deployment and dramatically reduces installation costs by helping to eliminate the time and cost involved in supplying local power at each access point location
- High-bandwidth CX4 local stacking: when stacked using CX4 local stacking, achieves 12 Gbps per connection, allowing for up to 96 Gbps total stacking bandwidth (full duplex) in a resilient stacking configuration

Performance

- Nonblocking architecture
 - up to 192 Gbps nonblocking switching fabric provides wire-speed switching with up to 143 million pps throughput
- Hardware-based wirespeed access control lists (ACLs)
 help provide high levels of security and ease of administration without impacting network performance with a feature-rich TCAM-based ACL implementation

Resiliency and high availability

- **Separate data and control paths**: keeps control separated from services and keeps service processing isolated; increases security and performance
- External redundant power supply: provides high reliability
- Smart link: allows 50 ms failover between links
- Spanning Tree/MSTP and RSTP: provide redundant links while preventing network loops
- Rapid Ring Protection Protocol (RRPP): connects multiple switches in a high-performance ring using standard Ethernet



Overview

- technology; traffic can be rerouted around the ring in less than 50 ms, reducing the impact on traffic and applications
- Intelligent Resilient Framework (IRF): creates virtual resilient switching fabrics, where two or more switches perform as a single L2 switch and L3 router; switches do not have to be co-located and can be part of a disaster recovery system; servers or switches can be attached using standard LACP for automatic load balancing and high availability; can eliminate the need for complex protocols like Spanning Tree Protocol, Equal-Cost Multipath (ECMP), or VRRP, thereby simplifying network operation

Layer 2 switching

- 16K MAC address table: provides access to many Layer 2 devices
- VLAN support and tagging: support IEEE 802.1Q, with 4,094 simultaneous VLAN IDs
- GARP VLAN Registration Protocol: allows automatic learning and dynamic assignment of VLANs
- **IEEE 802.1ad QinQ and Selective QinQ**: increase the scalability of an Ethernet network by providing a hierarchical structure; connect multiple LANs on a high-speed campus or metro network
- 10GbE port aggregation allows grouping of ports to increase overall data throughput to a remote device
- Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) protocol snooping: effectively control and manage the flooding of multicast packets in a Layer 2 network

Layer 3 services

- Address Resolution Protocol (ARP): determines the MAC address of another IP host in the same subnet
- **Dynamic Host Configuration Protocol** (DHCP): simplifies the management of large IP networks; supports client; DHCP Relay enables DHCP operation across subnets
- Loopback interface address: defines an address in RIP that can always be reachable, improving diagnostic capability
- User Datagram Protocol (UDP) helper function: allows User Datagram Protocol (UDP) broadcasts to be directed across router interfaces to specific IP unicast or subnet broadcast addresses and prevents server spoofing for UDP services such as DHCP
- Route maps: provide more control during route redistribution; allow filtering and altering of route metrics

Layer 3 routing

- IPv4 routing protocols: support static routes and RIP
- IPv6 routing protocols: provide routing of IPv6 at wire speed; support static routes and RIPng

Security

- Access control lists (ACLs): provide IP Layer 2 to Layer 4 traffic filtering; support global ACL, VLAN ACL, port ACL, and IPv6 ACL
- IEEE 802.1X: industry-standard method of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server
- MAC-based authentication: authenticates the client with the RADIUS server based on the client's MAC address
- Identity-driven security and access control:
 - Per-user ACLs: permit or deny user access to specific network resources based on user identity and time of day, allowing
 multiple types of users on the same network to access specific network services without risking network security or
 providing unauthorized access to sensitive data
 - O Automatic VLAN assignment: automatically assigns users to the appropriate VLAN based on their identities
- Secure management access: securely encrypts all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3
- **Secure FTP**: allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file
- Guest VLAN: provides a browser-based environment to authenticated clients that is similar to IEEE 802.1X
- Endpoint Admission Defense (EAD): provides security policies to users accessing a network
- Port security: allows access only to specified MAC addresses, which can be learned or specified by the administrator



Overview

- Port isolation: secures and adds privacy, and prevents malicious attackers from obtaining user information
- **STP BPDU port protection**: blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
- STP Root Guard: protects the root bridge from malicious attacks or configuration mistakes
- DHCP protection: blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks
- Dynamic ARP protection: blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data
- IP Source Guard: helps prevent IP spoofing attacks
- RADIUS/HWTACACS: eases switch management security administration by using a password authentication server

Convergence

- **IEEE 802.1AB Link Layer Discovery Protocol** (LLDP): is an automated device discovery protocol that provides easy mapping of network management applications
- LLDP-MED: is a standard extension that automatically configures network devices, including LLDP-capable IP phones
- LLDP-CDP compatibility: receives and recognizes CDP packets from Cisco's IP phones for seamless interoperation
- **IEEE 802.3af Power over Ethernet**: provides up to 15.4 W per port to PoE-powered devices such as IP phones, wireless access points, and video cameras
- PoE allocations: support multiple methods (automatic, IEEE 802.3af class, LLDP-MED, or user specified) to allocate PoE power for more efficient energy savings
- Voice VLAN: automatically assigns VLAN and priority for IP phones, simplifying network configuration and maintenance
- IP multicast snooping (data-driven IGMP): automatically prevents flooding of IP multicast traffic
- Multicast VLAN: allows multiple VLANs to receive the same IPv4 or IPv6 multicast traffic, lessening network bandwidth demand by reducing or eliminating multiple streams to each VLAN

Device support

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

Additional information

- **Green IT and power**: use the latest advances in silicon development, shut off unused ports, and use variable-speed fans to improve power efficiency
- Green initiative support: provides support for RoHS and WEEE regulations
- Warranty and support

Lifetime Warranty 2.0

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

- Electronic and telephone support (for Lifetime Warranty 2.0)
 - limited 24x7 telephone support is available from HP for the first 3 years; limited electronic and business hours telephone support is available from HP for the entire warranty period; 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 MSM765 zl Mobility Controller



Overview

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.



3

JG239A

QuickSpecs

Configuration

Build To Order:

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

Switch Chassis

HP 5500-24G-PoE SI Switch JD371A

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

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

2 port expansion module slots

• 1U - Height

HP 5500-24G SI Switch JD369A

• 24 RJ-45 autosensing 10/100/1000 ports See Configuration Note:1,

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

min=0 \ max=4 SFP Transceivers

2 port expansion module slots

• 1U - Height

HP 5500-24G-PoE+ SI Switch w/2 Intf Slts JG238A

• 24 RJ-45 autosensing 10/100/1000 ports See Configuration Note:1,

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

• min=0 \ max=4 SFP Transceivers

2 port expansion module slots

• 1U - Height

HP 5500-48G-PoE SI Switch JD372A

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

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

min=0 \ max=4 SFP Transceivers

2 port expansion module slots

• 1U - Height

HP 5500-48G SI Switch JD370A

 48 RJ-45 autosensing 10/100/1000 ports See Configuration Note:1.

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

min=0 \ max=4 SFP Transceivers

• 2 port expansion module slots

• 1U - Height

HP 5500-48G-PoE+ SI Switch w/2 Intf Slts

 48 RJ-45 autosensing 10/100/1000 ports See Configuration Note:1.

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

• min=0 \ max=4 SFP Transceivers

2 port expansion module slots

• 1U - Height



Configuration

Configuration Rules:

Note 1 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 LC SX 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-D Transceiver JD099B HP X120 1G SFP RJ45 T Transceiver JD089B HP X110 100M SFP LC FX Dual Mode Transceiver JD497B HP X110 100M SFP LC LX Dual Mode Transceiver JD498B HP X125 1G SFP LC LH70 Transceiver JD063B

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

Remarks: If any TAA product is selected please display the following note; 'This product is

intended for Government sales.'

Internal Power Supplies

Power Supplies included

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

Modules

User Selection (min 0 / max=2) per Chassis

HP 5500 2-port 10GbE XFP Module JD359B

• min=0 \ max=2 XFP Transceivers

HP 5500 2-port 10GbE Local Connect Mod JD360B

• min=0 \ max=2 CX4 Cables See Configuration Note:4

HP 5500 1-port 10GbE XFP Module JD361B

• min=0 \ max=1 XFP Transceivers See Configuration Note:2

HP 2p 10-GbE SFP+ A5500/E4800/E4500 Mod JD368B

See Configuration Note:1

• min=0 \ max=2 SFP+ Transceivers

HP 5500/4800 2-port GbE SFP Module JD367A

• min=0 \ max=2 SFP Transceivers



Configuration

HP 5500/5120 2p 10GBASE-T Module

JG535A

No Transceivers

Configuration Rules:

Configuration Rules.		
Note 1	The following Transceivers install into this Module:	
	HP X130 10G SFP+ LC ER 40km Transceiver	JG234A
	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+ 5m DAC Cable	JG081C
	HP X240 10G SFP+ 7m DAC Cable	JC784C
Note 2	The following Transceivers install into this Module:	
	HP X135 10G XFP LC ER Transceiver	JD121A
	HP X130 10G XFP SC LR 1310nm Transceiver	JD108B
	HP X130 10G XFP LC SR Transceiver	JD117B
Note 3	The following Transceivers install into this Module:	
	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 X120 1G SFP LC BX 10-U Transceiver	JD098B
	HP X120 1G SFP LC BX 10-D Transceiver	JD099B
	HP X120 1G SFP RJ45 T Transceiver	JD089B
	HP X110 100M SFP LC FX Dual Mode Transceiver	JD497B
	HP X110 100M SFP LC LX Dual Mode Transceiver	JD498B
	HP X125 1G SFP LC LH70 Transceiver	JD063B
Note 4	The following Cables install into this Module:	
	HP X230 Local Connect 50cm CX4 Cable	JD363B
	HP X230 Local Connect 100cm CX4 Cable	JD364B
	HP X230 CX4 to CX4 3m Cable	JD365A
	NOTE: Two JD365A - HP X230 CX4 to CX4 3m Cable should be added by default if Module is selected.	

Transceivers

SFP Transceivers

HP X120 1G SFP LC SX Transceiver

HP X120 1G SFP LC LX Transceiver

JD118B



Configuration	
	IDOGRA
HP X120 1G SFP LC LH40 1550nm XCVR	JD062A
HP X125 1G SFP LC LH40 1310nm XCVR	JD061A
HP X120 1G SFP LC BX 10-U Transceiver	JD098B
HP X120 1G SFP LC BX 10-D Transceiver	JD099B
HP X120 1G SFP RJ45 T Transceiver	JD089B
HP X125 1G SFP LC LH70 Transceiver	JD063B
Cofiguration Rules:	
SFP+ Transceivers	
HP X130 10G SFP+ LC ER 40km Transceiver	JG234A
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+ 5m DAC Cable	JG081C
HP X240 10G SFP+ 7m DAC Cable	JC784C
XFP Transceivers	
HP X130 10G XFP LC LR 1310nm Transceiver	JD108B
HP X130 LC SR XFP Transceiver	JD117B
HP X135 10G XFP LC ER Transceiver	JD121A
Cables	
Local Connect Cables	
HP X230 Local Connect 50cm CX4 Cable	JD363B
HP X230 Local Connect 100cm CX4 Cable	JD364B
HP X230 Local Connect 50cm CX4 Cable	JD365A
Multi-Mode Cables	
HP .5m MuHlti-mode OM3 LC/LC FC Cable	AJ833A
HP 1m Multi-mode OM3 LC/LC FC Cable	AJ834A
HP 2 m Multimode OM3 LC/LC FC Cable	AJ835A
HP 5 m Multimode OM3 LC/LC FC Cable	AJ836A
HP 15 m Multimode OM3 LC/LC FC Cable	AJ837A
HP 30 m Multimode OM3 LC/LC FC Cable	AJ838A
HP 50 m Multimode OM3 LC/LC FC Cable	AJ839A
HP Premier Flex LC/LC OM4 2f 1m Cbl	QK732A
HP Premier Flex LC/LC OM4 2f 2m Cbl	QK733A
HP Premier Flex LC/LC OM4 2f 5m Cbl	QK734A
HP Premier Flex LC/LC OM4 2f 15m Cbl	QK735A



JD183A

JG136A

JG137A

QuickSpecs

Configuration

HP Premier Flex LC/LC 0M4 2f 30m Cbl

HP Premier Flex LC/LC 0M4 2f 50m Cbl

QK737A

HP Premier Flex LC/LC 0M4 2f 1m Cbl

QK732A

Switch Enclosure Options

External/Redundant Power Supplies

HP RPS 800 Redundant Power Supply

• Height = 1U See Configuration Note:2,

• includes 1 x c13, 800w

HP RPS1600 Redundant Power System

• Height = 1U See Configuration Note:2,

• includes 1 x c13, 1600w and Power Supply port 4

HP RPS1600 1600W AC Power Supply

• Installs into JG136A only See Configuration Note:1

Configuration Rules:

Note 1 If this power supply is selected, The JG136A - HP A-RPS1600 Redundant Power

System must be on order or onsite.

Note 2 Localization required.

Note 3 Supported only on the JD369A and JD370A Switches

Note 4 Supported only on the JD369A, JD370A, JD371A, JD372A, JG238A and JG239A

Switches.

Options for External/Redundant Power Supplies

HP X290 1000 A JD5 2m RPS Cable JD187A HP X290 500 C 1m RPS Cable JD184A



Technical Specifications

HP 5500-24G SI Switch with 2 Interface Slots (JD369A)

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

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

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

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

Supports a maximum of 24 autosensing 10/100/1000 ports

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

> Weight 9.92 lb (4.5 kg)

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

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

1000 Mb Latency **Performance** < 3.2 µs

10 Gbps Latency < 2.6 µs

Throughput 107.2 million pps

Routing/Switching

capacity

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

144 Gb/s

Operating relative

humidity

10% to 90%, noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic ISO 7779

Electrical characteristics Maximum heat

Environment

dissipation

273 BTU/hr (288.02 kJ/hr)

Voltage 100-240 VAC

Maximum power rating 80 W 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.

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; EN 60950-1/A11; FDA 21 CFR Subchapter J; ROHS Compliance

Emissions FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003;

> ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-

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

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

Services 3-year, 4-hour onsite, 13x5 coverage for hardware (UV870E)

3-year, 4-hour onsite, 24x7 coverage for hardware (UV873E)



Technical Specifications

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV876E)

3-year, 24x7 SW phone support, software updates (UV879E)

1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR574E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR575E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR576E)

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

4-year, 4-hour onsite, 13x5 coverage for hardware (UV871E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV874E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV877E)

4-year, 24x7 SW phone support, software updates (UV880E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV872E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV875E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV878E)

5-year, 24x7 SW phone support, software updates (UV881E)

3 Yr 6 hr Call-to-Repair Onsite (UW966E) 4 Yr 6 hr Call-to-Repair Onsite (UW967E) 5 Yr 6 hr Call-to-Repair Onsite (UW968E)

1-year, 6 hour Call-To-Repair Onsite for hardware (HR578E)

1-year, 24x7 software phone support, software updates (HR577E)

1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS658E)

1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS659E) 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS660E)

3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS661E) 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS662E)

4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS663E) 5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS664E)

5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS665E)

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 5500-48G SI Switch with 2 Interface Slots (JD370A)

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

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

1000BASE-T: full only

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

2 port expansion module slots1 RJ-45 serial console port

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

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

Weight 11.02 lb (5 kg)

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



Technical Specifications

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

Performance 1000 Mb Latency < 3.2 µs

> 10 Gbps Latency < 2.6 µs

Throughput 142.9 million pps

Routing/Switching 192 Gb/s

capacity

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

Operating relative

humidity

10% to 90%, noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic ISO 7779

Electrical characteristics Maximum heat

Environment

dissipation

410 BTU/hr (432.55 kJ/hr)

Voltage 100-240 VAC

120 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.

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; EN 60950-1/A11; FDA 21 CFR Subchapter J; ROHS Compliance

FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; **Emissions**

> ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-

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

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

3-year, 4-hour onsite, 13x5 coverage for hardware (HQ080E)

3-year, 4-hour onsite, 24x7 coverage for hardware (HQ081E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (HQ084E)

3-year, 24x7 SW phone support, software updates (HQ083E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR580E)

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

(HR581E)

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

4-year, 4-hour onsite, 13x5 coverage for hardware (HQ085E) 4-year, 4-hour onsite, 24x7 coverage for hardware (HQ086E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ093E)

4-year, 24x7 SW phone support, software updates (HQ091E) 5-year, 4-hour onsite, 13x5 coverage for hardware (HQ088E) 5-year, 4-hour onsite, 24x7 coverage for hardware (HQ089E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ094E)

Services

Technical Specifications

5-year, 24x7 SW phone support, software updates (HQ092E)

3 Yr 6 hr Call-to-Repair Onsite (HQ082E) 4 Yr 6 hr Call-to-Repair Onsite (HQ087E) 5 Yr 6 hr Call-to-Repair Onsite (HQ090E)

1-year, 4-hour onsite, 13x5 coverage for hardware (HR579E)
1-year, 6 hour Call-To-Repair Onsite for hardware (HR583E)
1-year, 24x7 software phone support, software updates (HR582E)

1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS674E)

1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS675E) 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS676E)

3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS677E) 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS678E)

4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS679E) 5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS680E)

5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS681E)

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 5500-24G-PoE+ SI Switch with 2 Interface Slots (JG238A)

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

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

Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP

2 port expansion module slots1 RJ-45 serial console port

Supports a maximum of 24 autosensing 10/100/1000 ports

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

Weight 13.21 lb (5.99 kg)

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

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

< 2.6 µs

Performance 1000 Mb Latency $< 3.2 \mu s$

10 Gbps Latency

Throughput up to 107.2 million pps

Routing/Switching 144 Gb/s

capacity

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

Operating relative 10% to 90%, noncondensing

humidity

Environment

Technical Specifications

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic ISO 7779

Electrical characteristics Maximum heat

dissipation

290 BTU/hr (305.95 kJ/hr)

Voltage 100-240 VAC DC voltage -52 to -55 VDC

Maximum power rating455 WPoE power370 WFrequency50/60 Hz

Notes Maximum power rating and maximum heat dissipation are the worst-case

theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies and may be

supplemented with the use of an external power supply (EPS).

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; EN 60950-1/A11; FDA 21 CFR Subchapter J; ROHS Compliance

Emissions FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003;

ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-

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

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

Services 3-year, 4-hour onsite, 13x5 coverage for hardware (UV870E)

3-year, 4-hour onsite, 24x7 coverage for hardware (UV873E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV876E)

3-year, 24x7 SW phone support, software updates (UV879E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV871E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV874E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV877E)

4-year, 24x7 SW phone support, software updates (UV880E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV872E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV875E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV878E)

5-year, 24x7 SW phone support, software updates (UV881E)

3 Yr 6 hr Call-to-Repair Onsite (UW966E) 4 Yr 6 hr Call-to-Repair Onsite (UW967E) 5 Yr 6 hr Call-to-Repair Onsite (UW968E)

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 5500-48G-PoE+ SI Switch with 2 Interface Slots (JG239A)



Technical Specifications

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

TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+)

Media Type: Auto-MDIX

Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP

2 port expansion module slots1 RJ-45 serial console port

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

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

192 Gb/s

Weight 16.53 lb (7.5 kg)

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

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

Performance 1000 Mb Latency < 3.2 μs

10 Gbps Latency < 2.6 μs

Throughput up to 142.9 million pps

Routing/Switching

capacity

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

Operating relative

humidity

10% to 90%, noncondensing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Acoustic ISO 7779

Electrical characteristics Maximum heat

dissipation

444 BTU/hr (468.42 kJ/hr)

Voltage 100-240 VAC DC voltage -52 to -55 VDC

Maximum power rating870 WPoE power740 WFrequency50/60 Hz

Notes Maximum power rating and maximum heat dissipation are the worst-case

theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies and may be

supplemented with the use of an external power supply (EPS).

With AC input: the maximum power consumption is 500 W; PoE power is 370

W.

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; EN 60950-1/A11; FDA 21 CFR Subchapter J; ROHS Compliance

Technical Specifications

Emissions FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003;

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

4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-

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

Single Manager Manager

Management IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager **Services** 3-year, 4-hour onsite, 13x5 coverage for hardware (HQ080E)

3-year, 4-hour onsite, 24x7 coverage for hardware (HQ081E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (HQ084E)

3-year, 24x7 SW phone support, software updates (HQ083E) 4-year, 4-hour onsite, 13x5 coverage for hardware (HQ085E) 4-year, 4-hour onsite, 24x7 coverage for hardware (HQ086E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ093E)

4-year, 24x7 SW phone support, software updates (HQ091E) 5-year, 4-hour onsite, 13x5 coverage for hardware (HQ088E) 5-year, 4-hour onsite, 24x7 coverage for hardware (HQ089E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ094E)

5-year, 24x7 SW phone support, software updates (HQ092E)

3 Yr 6 hr Call-to-Repair Onsite (HQ082E) 4 Yr 6 hr Call-to-Repair Onsite (HQ087E) 5 Yr 6 hr Call-to-Repair Onsite (HQ090E)

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

(applies to all products in series)

Device management

RFC 1157 SNMPv1/v2c RFC 1305 NTPv3

RFC 1901 (Community based SNMPv2)

RFC 2452 MIB for TCP6 RFC 2454 MIB for UDP6

RFC 2573 (SNMPv3 Applications)

RFC 2576 (Coexistence between SNMP V1, V2,

V3)

RFC 2819 RMON

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

HTML and telnet management Multiple Configuration Files SNMP v3 and RMON RFC support SSHv1/SSHv2 Secure Shell

General protocols

IEEE 802.1ad Q-in-Q IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q (GVRP) IEEE 802.1s (MSTP)

IEEE 802.1w Rapid Reconfiguration of Spanning

RFC 2710 Multicast Listener Discovery (MLD) for

IPv6

RFC 2893 Transition Mechanisms for IPv6 Hosts

and Routers

RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations

(Ping only)

RFC 3056 Connection of IPv6 Domains via IPv4

Clouds

RFC 3162 RADIUS and IPv6

RFC 3306 Unicast-Prefix-based IPv6 Multicast

Addresses

RFC 3315 DHCPv6 (client and relay)

RFC 3484 Default Address Selection for IPv6

RFC 3493 Basic Socket Interface Extensions for IPv6

RFC 3513 IPv6 Addressing Architecture RFC 3542 Advanced Sockets API for IPv6 RFC 3587 IPv6 Global Unicast Address Format

RFC 3596 DNS Extension for IPv6

RFC 3810 MLDv2 for IPv6 RFC 4113 MIB for UDP RFC 4443 ICMPv6

MIBs

RFC 1212 Concise MIB Definitions



Technical Specifications

RFC 1213 MIB II RFC 1724 RIPv2 MIB IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation (LAG) RFC 1757 Remote Network Monitoring MIB RFC 2012 SNMPv2 MIB for TCP IEEE 802.3ae 10-Gigabit Ethernet IEEE 802.3af Power over Ethernet RFC 2013 SNMPv2 MIB for UDP RFC 2233 Interface MIB IEEE 802.3i 10BASE-T RFC 2452 IPV6-TCP-MIB IEEE 802.3u 100BASE-X RFC 2454 IPV6-UDP-MIB IEEE 802.3x Flow Control IEEE 802.3z 1000BASE-X RFC 2465 IPv6 MIB RFC 2466 ICMPv6 MIB **RFC 791 IP** RFC 2571 SNMP Framework MIB RFC 792 ICMP RFC 2572 SNMP-MPD MIB RFC 793 TCP RFC 2573 SNMP-Notification MIB **RFC 854 TELNET** RFC 2573 SNMP-Target MIB RFC 925 Multi-LAN Address Resolution RFC 950 Internet Standard Subnetting Procedure RFC 2574 SNMP USM MIB **RFC 951 BOOTP** RFC 2618 RADIUS Authentication Client MIB RFC 2620 RADIUS Accounting Client MIB RFC 1058 RIPv1 RFC 2819 RMON MIB RFC 1122 Host Requirements RFC 2925 Ping MIB RFC 1141 Incremental updating of the Internet RFC 3414 SNMP-User based-SM MIB checksum RFC 3415 SNMP-View based-ACM MIB RFC 1213 Management Information Base for RFC 4113 UDP MIB Network Management of TCP/IP-based internets RFC 1305 NTPv3 RFC 1350 TFTP Protocol (revision 2) **Network management** RFC 1519 CIDR IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 1542 BOOTP Extensions IEEE 802.1D (STP) RFC 1723 RIP v2 RFC 1157 SNMPv1 RFC 1812 IPv4 Routing RFC 1212 Concise MIB definitions RFC 1887 An Architecture for IPv6 Unicast Address RFC 1215 SNMP Generic traps RFC 1757 RMON 4 groups: Stats, History, Alarms Allocation RFC 2131 DHCP and Events RFC 1901 SNMPv2 Introduction RFC 2236 IGMP Snooping RFC 2375 IPv6 Multicast Address Assignments RFC 1918 Private Internet Address Allocation RFC 2581 TCP Congestion Control RFC 2373 Remote Network Monitoring RFC 2616 HTTP Compatibility v1.1 Management Information Base for High Capacity RFC 2644 Directed Broadcast Control Networks RFC 2865 Remote Authentication Dial In User RFC 2571 An Architecture for Describing SNMP Management Frameworks Service (RADIUS) RFC 2572 Message Processing and Dispatching for **RFC 2866 RADIUS Accounting** RFC 3246 Expedited Forwarding PHB the Simple Network Management Protocol (SNMP) RFC 3410 Applicability Statements for SNMP **RFC 2573 SNMP Applications** RFC 3414 User-based Security Model (USM) for RFC 2573 SNMPv3 Applications version 3 of the Simple Network Management RFC 2574 SNMPv3 User-based Security Model Protocol (SNMPv3) (USM) RFC 3415 View-based Access Control Model RFC 2575 SNMPv3 View-based Access Control (VACM) for the Simple Network Management Model (VACM) Protocol (SNMP) RFC 2576 Coexistence between SNMP versions

RFC 2578 SMIv2

RFC 2581 TCP6

RFC 2819 Four groups of RMON: 1 (statistics), 2

(history), 3 (alarm) and 9 (events)



RFC 3417 Transport Mappings for the Simple

RFC 3484 Default Address Selection for Internet

Network Management Protocol (SNMP)

Protocol version 6 (IPv6)

Technical Specifications

RFC 3493 Basic Socket Interface Extensions for IPv6 RFC 2925 Definitions of Managed Objects for RFC 3542 Advanced Sockets Application Program Interface (API) for IPv6

RFC 3587 IPv6 Global Unicast Address Format RFC 3596 DNS Extensions to Support IP Version 6 RFC 4113 Management Information Base for the User Datagram Protocol (UDP)

RFC 4213 Basic IPv6 Transition Mechanisms RFC 4443 Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification

802.1r - GARP Proprietary Attribute Registration Protocol (GPRP)

IPv6

RFC 1887 IPv6 Unicast Address Allocation

Architecture

RFC 1981 IPv6 Path MTU Discovery

RFC 2080 RIPng for IPv6

RFC 2373 IPv6 Addressing Architecture

RFC 2375 IPv6 Multicast Address Assignments

RFC 2460 IPv6 Specification

RFC 2461 IPv6 Neighbor Discovery

RFC 2462 IPv6 Stateless Address Auto-configuration RFC 1918 Address Allocation for Private Internets

RFC 2463 ICMPv6

RFC 2464 Transmission of IPv6 over Ethernet

Networks

RFC 2475 IPv6 DiffServ Architecture

Remote Ping, Traceroute, and Lookup Operations RFC 3176 sFlow

RFC 3410 Introduction to Version 3 of the

Internet-standard Network Management Framework RFC 3414 SNMPv3 User-based Security Model (USM)

RFC 3415 SNMPv3 View-based Access Control Model VACM)

ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)

SNMPv1/v2c/v3

QoS/CoS

IEEE 802.1P (CoS) RFC 2474 DSCP DiffServ RFC 2475 DiffServ Architecture RFC 2597 DiffServ Assured Forwarding (AF) RFC 2598 DiffServ Expedited Forwarding (EF)

Security

IEEE 802.1X Port Based Network Access Control RFC 1492 TACACS+

RFC 2865 RADIUS Authentication RFC 2866 RADIUS Accounting Access Control Lists (ACLs) **MAC Authentication** Port Security

SSHv2 Secure Shell



Accessories

HP 5500 SI Switch Series	Modules	
accessories	HP 5500 2-port 10GbE XFP Module	JD359B
	HP A5500/A5120-EI 2p 10-GbE CX4 Module	JD360B
	HP 5500 1-port 10GbE XFP Module	JD361B
	HP 5500/5120 2-port 10GbE SFP+ Module	JD368B
	HP 5500/4800 2-port GbE SFP Module	JD367A
	NEW HP 5500/5120 2-port 10GBASE-T Module (JG535A)	JG535A
	Transceivers	
	HP X125 1G SFP LC LH40 1310nm Transceiver	JD061A
	HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
	HP X125 1G SFP LC LH70 Transceiver	JD063B
	HP X130 SFP+ LC SR Transceiver	JD092B
	HP X130 SFP+ LC LRM Transceiver	JD093B
	HP X130 SFP+ LC LR Transceiver	JD094B
	HP X130 10G XFP LC LR 1310nm Transceiver	JD108B
	HP X130 10G XFP LC SR Transceiver	JD117B
	HP X120 1G SFP LC SX Transceiver	JD118B
	HP X120 1G SFP LC LX Transceiver	JD119B
	HP X135 10G XFP LC ER Transceiver	JD121A
	HP X240 SFP+ to SFP+ 0.65 m Direct Attach Copper Cable	JD095C
	HP X240 SFP+ to SFP+ 1.2 m Direct Attach Copper Cable	JD096C
	HP X240 SFP+ to SFP+ 3 m Direct Attach Copper Cable	JD097C
	HP X120 1G SFP LC BX 10-U Transceiver	JD098B
	HP X120 1G SFP LC BX 10-D Transceiver	JD099B
	HP X125 1G SFP RJ45 T Transceiver	JD089B
	HP X130 10G SFP+ LC ER 40 km Transceiver	JG234A
	Cables	
	HP X230 Local Connect 100 cm CX4 Cable	JD364B
	HP X230 Local Connect CX4 300 cm Cable	JD365A
	HP 0.5 m Multimode OM3 LC/LC Optical Cable	AJ833A
	HP 1 m Multimode OM3 LC/LC Optical Cable	AJ834A
	HP 2 m Multimode OM3 LC/LC Optical Cable	AJ835A
	HP 5 m Multimode OM3 LC/LC Optical Cable	AJ836A
	HP 15 m Multimode OM3 LC/LC Optical Cable	AJ837A
	HP 30 m Multimode OM3 LC/LC Optical Cable	AJ838A
	HP 50 m Multimode OM3 LC/LC Optical Cable	AJ839A
	HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 1m Cable	QK732A
	HP Premier Flex LC/LC Multi-mode 0M4 2 fiber 2m Cable	QK733A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
	HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A
	HP X230 Local Connect 50cm CX4 Cable	JD363B
	Power Supply	



HP 5500 SI Switch Series

QuickSpecs

Accessories

HP RPS800 Redundant Power System	JD183A
HP RPS1600 Redundant Power System	JG136A
HP RPS1600 1600W AC Power Supply	JG137A
Power cords Power cords	
HP X290 JD5 JD5 2m RPS1600 Cable	JD187A
HP X290 H2.7 H2.7 1m RPS800 Cable	JD184A



Accessory Product Details

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

HP 5500 2-port 10GbE XFP	Ports	2 XFP 10-GbE ports; Duplex: full only		
Module (JD359B)	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 service and response times in your area, please contact your local HP sales office.		
HP 5500 1-port 10GbE XFP	Ports	1 XFP 10-GbE port; Duplex: full only		
Module (JD361B)	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 service and response times in your area, please contact your local HP sales office.		
HP 5500/4800 2-port GbE	Ports	2 SFP 1000 Mbps ports		
SFP Module (JD367A)	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 LC LH40	Ports	1 LC 1000Base-LH port (no IEEE standard exists for 1550 nm optics)		
1310nm Transceiver (JD061A) A small form-factor	Connectivity	Connector type	LC	
		Wavelength	1310 nm	
	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)	
pluggable SFP Gigabit LH40 transceiver that provides a		Full configuration weight	0.04 lb. (0.02 kg)	
full duplex Gigabit solution	Electrical characteristics	' ''		
up to 40km on a single- mode fiber.		Power consumption 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 service and response times in your area, please contact your local HP sales office.		



Accessory Product Details

HP X120 1G SFP LC LH40 1550nm Transceiver

(JD062A)

A small form-factor pluggable (SFP) Gigabit LH40 transceiver that provides a full-duplex Gigabit solution up to 40 km on a single mode fiber. **Ports** 1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)

Connectivity Connector type LC

> Wavelength 1550 nm

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

Full configuration weight 0.04 lb. (0.02 kg)

Electrical characteristics Power consumption typical 0.8 W

Power consumption maximum

1.0 W

Cabling Cable type:

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

Maximum distance:

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 X125 1G SFP LC LH70

Transceiver (JD063B)

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

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

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.

Accessory Product Details

transceiver that provides a

full-duplex Gigabit solution

full duplex Gigabit solution

up to 550m on MMF or

10Km on SMF

HPX1201GSFPLCSX Ports 1 LC 1000BASE-SX port

Transceiver (JD118B) **Connectivity** LC **Connector type**

Wavelength 850 nm A small form-factor

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

• 0M1 = 275m • 0M2 = 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.

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

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

Wavelength 1300 nm A small form-factor

pluggable (SFP) Gigabig 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.



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

TX 1310nm RX 1490nm Notes

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

provides a full duplex Gigabit solution up to

10km on a single mode

cable.

D Transceiver (JD099B) full only

Connectivity Connector type LC A small form-factor

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

Full configuration weight 0.04 lb. (0.02 kg)

Electrical characteristics Power consumption 0.8 W

typical

Power consumption 1.0 W

maximum

Maximum distance: Cabling

• 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 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

A small form factor pluggable (SFP) Gigabit 1000Base-T transceiver that provides a full duplex

Gigabit solution up to

100m on a Cat-5+ cable.

Physical characteristics

Dimensions 2.71(d) x 0.54(w) x 0.55(h) in. (6.88 x 1.37 x 1.4

cm)

Full configuration weight 0.07 lb. (0.03 kg)

Electrical characteristics

Power consumption

0.8 W

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,

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.

HP 0.5 m Multimode OM3 Cabling LC/LC Optical Cable

(AJ833A)

Cable type:

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

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Notes

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

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



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

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

Services

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 1 m Multimode OM3 LC/LC Optical Cable (AJ834A)

Cabling

Cable type:

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

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Notes

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

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

Services



HP 2 m Multimode OM3 LC/LC Optical Cable

Cabling

Notes

(AJ835A)

Cable type:

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

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

and LC duplex connectors on other end.

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

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

Services



Cabling

Notes

HP 5 m Multimode OM3 LC/LC Optical Cable

(AJ836A)

Cable type:

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

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

Cable Space: This specification defines t

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

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

Services

HP 15 m Multimode OM3 Cabling LC/LC Optical Cable

(AJ837A)

Notes

Cable type:

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

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

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

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

Services



HP 30 m Multimode OM3 Cabling LC/LC Optical Cable

(AJ838A)

Notes

Cable type:

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

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

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

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

Services



HP 50 m Multimode OM3 Cabling LC/LC Optical Cable

(AJ839A)

Notes

Cable type:

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

Maximum distance:

10Gbps Transfer Rate (Ethernet): 300m

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

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

Services



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.

- \bullet Core Diameter: 50um \pm 3um, Cladding diameter: 125um \pm 2um; Coating diameter: 245 \pm 10um
- Bandwidth: 3000 MHz-km @ 850nm (Laser)
- Jacket Color: Blue
- Jacket Material: Riser Grade Low Smoke Zero Halogen (LSZH) thermoplastic
- · Boot Color: White
- Outer Jacket Print: 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

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

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.
- \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

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

5% to 95%

humidity

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%

Electrical characteristics Voltage

/oltage 100-120/200-240 VAC

Current15/30 AMaximum power rating1600 WFrequency50/60 Hz

Notes Maximum power rating and maximum heat

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

populated.

Services Refer to the 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.

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