Overview

Models

HP 5500-24G EI Switch with 2 Interface Slots	JD377A
HP 5500-24G DC EI Switch	JD373A
HP 5500-24G-PoE El Switch	JD378A
HP 5500-48G EI Switch with 2 Interface Slots	JD375A
HP 5500-48G-PoE El Switch	JD376A
HP 5500-24G-SFP EI Switch with 2 Interface Slots	JD374A
HP 5500-24G-SFP DC EI Switch	JD379A
HP 5500-48G-PoE+ EI Switch with 2 Interface Slots	JG240A
HP 5500-24G-PoE+ EI Switch with 2 Interface Slots	JG241A

Key features

- High expandability for investment protection
- Premium security and integrated management
- Multilayer reliability
- Convergence-ready support
- Outstanding Quality of Service (QoS)

Product overview

These Gigabit Ethernet switches deliver outstanding security, reliability, and multiservice support capabilities for robust switching at the edge or aggregation layer of large enterprise and campus networks, or in the core layer of SMB networks. The HP 5500 EI Switch Series is comprised of Layer 2/3 Gigabit Ethernet switches that can accommodate the most demanding applications and provide resilient and secure connectivity as well as the latest traffic prioritization technologies to enhance applications on convergent networks. With complete IPv4/IPv6 dual-stack support, the series provides a migration path from IPv4 to IPv6 and has hardware support for IPv6. Designed for increased flexibility, these switches are available with 24 or 48 Gigabit Ethernet ports. Power over Ethernet (PoE) and non-PoE models are available with optional GbE and 10 GbE expansion capability. The all-fiber model with dual power supplies is ideal for applications that require the highest availability.

Features and benefits

Quality of Service (QoS)

- **Storm restraint**: allows limitation of broadcast, multicast, and unknown unicast 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 bi-directional selected traffic on a per-port, per-VLAN, or whole switch
 basis
- **Powerful QoS feature**: creates traffic classes based on ACLs, IEEE 802.1p precedence, IP, DSCP or ToS precedence; supports filter, redirect, mirror, or remark; supports the following congestion actions: strict priority queuing (SP), weighted round robin (WRR), SP+WRR, weighted fair queuing (WFQ), and weighted random early discard (WRED)
- Traffic policing: supports Committed Access Rate (CAR) and line rate

Management



Overview

- 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
- **Dual flash images**: provide independent primary and secondary operating system files for backup while upgrading
- 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
- 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 wire-speed 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**: provides future-proof networking because the switch is capable of being managed whether the attached network is running IPv4 or IPv6; supports pingv6, tracertv6, Telnetv6, TFTPv6, DNSv6, syslogv6, FTPv6, SNMPv6, DHCPv6, and RADIUS for IPv6
- **Troubleshooting**: ingress and egress port monitoring enable network problem solving; virtual cable tests provide visibility into cable problems
- In-Service Software Upgrade (ISSU): enables operators to perform upgrades in the shortest possible amount of time with minimal risk to network operations or traffic disruptions

Connectivity

- Auto-MDIX: automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports
- Flow control: provides back pressure using standard IEEE 802.3x, reducing congestion in heavy traffic situations
- Jumbo packet support: supports up to 9216-byte frame size to improve the performance of large data transfers
- **Optional 10 GbE ports**: through the use of optional modules, additional 10 GbE connections are available for uplinks or high-bandwidth server connections; flexibly supports XFP, SFP+, or CX4 local connections
- **High-density port connectivity**: provides up to 48 fixed 10/100/1000BASE-T or 24 SFP 100/1000BASE-X ports in a Layer 2/Layer 3 stackable switch supporting unique IRF stacking
- **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
- **Ethernet OAM (IEE 802.3ah)**: operations, administration and maintenance (OAM) management capability detects data link layer problems that occurred in the "last mile"; monitors the status of the link between the two devices
- High-bandwidth CX4 and SFP+ local stacking: provide 10 Gbps SPF+ or 12 Gbps CX4 local stacking cables; achieve a resilient stacking configuration

Performance



Overview

- **Nonblocking architecture**: up to 192 Gbps nonblocking switching fabric provides wire-speed switching with up to 143 million pps throughput
- 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

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, RSTP: provides redundant links while preventing network loops
- **Rapid Ring Protection Protocol** (RRPP): connects multiple switches in a high-performance ring using standard Ethernet technology; traffic can be rerouted around the ring in less than 50 ms, reducing the impact on traffic and applications
- Virtual Router Redundancy Protocol (VRRP): allows a group of routers to dynamically back each other up to create highly available routed environments
- 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
- IP Fast Reroute (FRR): forms backup paths and allows 50 ms switchover in case of a main path fault

Layer 2 switching

- 32K MAC addresses: provide access to many Layer 2 devices
- **IEEE 802.1ad QinQ and Selective QinQ**: increase the scalability of an Ethernet network by providing a hierarchical structure; connect multiple LANs on a high-speed campus or metro network
- GARP VLAN Registration Protocol: allows automatic learning and dynamic assignment of VLANs
- **IEEE 802.1ad QinQ**: increases the scalability of an Ethernet network by providing a hierarchical structure; connects multiple LANs on a high-speed campus or metro network
- 10 GbE 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 and supports client and server; DHCP Relay enables DHCP operation across subnets
- Loopback interface address: defines an address in Routing Information Protocol (RIP) and Open Standard Path First (OSPF), improving diagnostic capability
- **User Datagram Protocol** (UDP) **helper function**: allows UDP broadcasts to be directed across router interfaces to specific IP unicast or subnet broadcast addresses and prevents server spoofing for UDP services such as DHCP
- Route maps: provide more control during route redistribution; allow filtering and altering of route metrics

Layer 3 routing

- IPv4 routing protocols: support static routes, RIP, OSPF, ISIS, and BGP
- IPv6 routing protocols: provide routing of IPv6 at wire speed; support static routes, RIPng, OSPFv3, IS-ISv6, and BGP4+ for IPv6
- Equal-Cost Multipath (ECMP): enables multiple equal-cost links in a routing environment to increase link redundancy and scale



Overview

bandwidth

- 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
- IPv6 tunneling: allows a smooth transition from IPv4 to IPv6 by encapsulating IPv6 traffic over an existing IPv4 infrastructure
- Unicast Reverse Path Forwarding (uRPF): is defined by RFC 3704 and limits erroneous or malicious traffic
- Bidirectional Forwarding Detection (BFD): enables link connectivity monitoring and reduces network convergence time for RIP,
 OSPF, BGP, IS-IS, VRRP, and IRF

Security

- Access control lists (ACLs): provide IP Layer 2 to Layer 4 traffic filtering; support global ACL, VLAN ACL, port ACL, and IPv6 ACL.
 Up to 3072 ingress ACLs and 448 egress ACLs are supported.
- **IEEE 802.1X**: is an industry-standard method of user authentication that uses 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: similar to IEEE 802.1X, it provides a browser-based environment to authenticated clients
- Endpoint Admission Defense (EAD): provides security policies to users accessing a network
- Port security: allows access only to specified MAC addresses, which can be learned or specified by the administrator
- Port isolation: secures and adds privacy, and prevents malicious attackers from obtaining user information
- STP BPDU port protection: blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
- STP Root Guard: protects the root bridge from malicious attack 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
- Multiple Customer Edge (MCE): facilitates MPLS VPN network integration with up to 64 VPNs support
- Unicast Reverse Path Forwarding (URPF): allows normal packets to be forwarded correctly, whereas the attaching packet will
 be discarded due to lack of reverse path route or incorrect inbound interface; prevents source spoofing and distributed attacks;
 supports distributed URPF

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



Overview

- 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
- Internet Group Management Protocol (IGMP): is used by IP hosts to establish and maintain multicast groups; supports IGMPv1, 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)
- Multicast Source Discovery Protocol (MSDP): is used for inter-domain multicast applications, allowing multiple PIM-SM domains to interoperate
- Multicast Border Gateway Protocol (MBGP): allows multicast traffic to be forwarded across BGP networks and kept separate from unicast traffic
- **Multicast VLAN**: allows multiple VLANs to receive the same IPv4 or IPv6 multicast traffic, lessening network bandwidth demand by reducing or eliminating multiple streams to each VLAN

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 energy efficiency
- **Green initiative support**: provides support for RoHS and WEEE regulations

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.

Switch Chassis

HP 5500-24G EI Switch 24 RJ-45 autosensing 10/100/1000 ports 4 dual-personality ports; autosensing10/100/1000Base-T or SFP min=0 \ max=4 SFP Transceivers 2 port expansion module slots 1U - Height	JD377A See Configuration Note:1, 3
C15 PDU NA • C15 to C14 Jumper Cord (NA)	JD377A#B2B
C15 PDU ROW • C15 to C14 Jumper Cord (ROW)	JD377A#B2C
220 NA ■ NEMA L6-20P Cord	JD377A#B2E
HP 5500-24G-SFP EI Switch 24 fixed Gigabit Ethernet SFP ports 8 dual-personality ports; autosensing 10/100/1000BASE-T or SFPmin=0 \ max=32 SFP Transceivers min=0 \ max=32 SFP Transceivers 2 port expansion module slots 1U - Height	JD374A See Configuration Note:1, 3
C15 PDU NA • C15 to C14 Jumper Cord (NA)	JD374A#B2B
C15 PDU ROW • C15 to C14 Jumper Cord (ROW)	JD374A#B2C
220 NA ◆ NEMA L6-20P Cord	JD374A#B2E
HP 5500-24G-PoE+ EI Switch w/2 Intf Slts 24 RJ-45 autosensing 10/100/1000 PoE+ports 4 dual-personality ports; autosensing 10/100/1000Base-T or SFP min=0 \ max=4 SFP Transceivers 2 port expansion module slots 1U - Height	JG241A See Configuration Note:1, 3



C15 PDU NA

• C15 to C14 Jumper Cord (NA)

JG241A#B2B

Configuration

C15 PDU ROW JG241A#B2C C15 to C14 Jumper Cord (ROW) 220 NA JG241A#B2E NEMA L6-20P Cord HP 5500-48G EI Switch JD375A • 48 RJ-45 autosensing 10/100/1000 ports **See Configuration** 4 dual-personality ports; autosensing 10/100/1000Base-T or SFP Note: 1, 3 min=0 \ max=4 SFP Transceivers 2 port expansion module slots • 1U - Height C15 PDU NA JD375A#B2B • C15 to C14 Jumper Cord (NA) C15 PDU ROW JD375A#B2C C15 to C14 Jumper Cord (ROW) 220 NA JD375A#B2E NEMA L6-20P Cord HP 5500-48G-PoE+ EI Switch w/2 Intf Slts JG240A 48 RJ-45 autosensing 10/100/1000 PoE+ ports See Configuration 4 dual-personality ports; autosensing 10/100/1000Base-T or SFP Note:1, 3 • min=0 \ max=4 SFP Transceivers 2 port expansion module slots • 1U - Height C15 PDU NA JG240A#B2B C15 to C14 Jumper Cord (NA) C15 PDU ROW JG240A#B2C • C15 to C14 Jumper Cord (ROW) 220 NA JG240A#B2E NEMA L6-20P Cord **Configuration Rules:** Note 1 The following Transceivers install into this Switch HP X120 1G SFP LC SX Transceiver JD118B HP X120 1G SFP LC LX Transceiver JD119B HP X120 1G SFP LC BX 10-U Transceiver JD098B



HP X120 1G SFP LC BX 10-D Transceiver

HP X124 1G SFP LC LH40 1310nm Transceiver

JD099B

JD061A

Configuration

HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HP X125 1G SFP LC LH70 Transceiver	JD063B
HP X115 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X110 100M SFP LC FX Dual Mode Transceiver	JD497A
HP X120 1G SFP RJ45 T Transceiver	JD089B

Note 3

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

Box Level Integration CTO Models

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

CTO Switch Chassis

HP 5500-24G EI Switch - CTO 24 RJ-45 autosensing 10/100/1000 ports 4 dual-personality ports; autosensing 10/100/1000Base-T or SFP min=0 \ max=4 SFP Transceivers 2 - port expansion module slots 1 - JD362A - HP 5500 150WAC Power Supply Included 1U - Height	JD377AC See Configuration Note:1, 3, 4, 6
HP 5500-24G-SFP EI Switch - CTO 24 fixed Gigabit Ethernet SFP ports 8 dual-personality ports; autosensing 10/100/1000Base-T or SFP min=0 \ max=32 SFP Transceivers 2 - port expansion module slots 1U - Height	JD374AC See Configuration Note:1, 3, 4, 6
HP 5500-24G-PoE+ EI Switch w/2 Intf Slts - CTO 24 RJ-45 autosensing 10/100/1000 PoE+ ports 4 dual-personality ports; autosensing10/100/1000Base-T or SFP min=0 \ max=4 SFP Transceivers 2 - port expansion module slots" 1U - Height	JG241AC See Configuration Note:1, 3, 4, 6
HP 5500-48G EI Switch - CTO • 48 RJ-45 autosensing 10/100/1000 ports • 4 dual-personality ports; autosensing10/100/1000Base-T or SFP • min=0 \ max=4 SFP Transceivers • 2 - port expansion module slots • 1U - Height	JD375AC See Configuration Note:1, 3, 4, 6



JG240AC

Configuration

48 RJ-45 autosensing 10/100/1000 PoE+ ports

See Configuration Note:1, 3, 4, 6

- 4 dual-personality ports; autosensing10/100/1000Base-T or SFP
- min=0 \ max=4 SFP Transceivers
- 2 port expansion module slots
- 1U Height

Configuration Rules:

Note 1	The following Transceivers install into this Switch: (Use #0D1 if switch is CTO)		
	HP X120 1G SFP LC SX Transceiver	JD118B	
	HP X120 1G SFP LC LX Transceiver	JD119B	
	HP X120 1G SFP LC BX 10-U Transceiver	JD098B	
	HP X120 1G SFP LC BX 10-D Transceiver	JD099B	
	HP X124 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 X115 100M SFP LC FX Transceiver	JD102B	
	HP X110 100M SFP LC LX Transceiver	JD120B	
	HP X110 100M SFP LC LH40 Transceiver	JD090A	
	HP X110 100M SFP LC LH80 Transceiver	JD091A	
	HP X110 100M SFP LC FX Dual Mode Transceiver	JD497A	
	HP X120 1G SFP RJ45 T Transceiver	JD089B	

Note 3 Localization required

Note 4 Factory integration of options to these switches is not allowed in EMEA. Rest of world supports factory integration.

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.

Remark:

Option JxxxxC is used to indicate a Switch Chassis that has factory integrated options BUT NOT integrated into HP Universal Rack by the HP Factory.

Rack Level Integration CTO Models

Switch Chassis

HP 5500-24G EI Switch JD377A

24 RJ-45 autosensing 10/100/1000 ports

4 dual-personality ports; autosensing 10/100/1000Base-T or SFP
 min=0 \ max=4 SFP Transceivers
 Configuration
 Note:1, 3, 10

2 port expansion module slots

• 1U - Height



See

Configuration

C15 PDU NA • C15 to C14 Jumper Cord (NA)	JD377A#B2B
C15 PDU ROW C15 to C14 Jumper Cord (ROW)	JD377A#B2C
HP 5500-24G-SFP EI Switch • 24 fixed Gigabit Ethernet SFP ports • 8 dual-personality ports; autosensing 10/100/1000Base-T or SFP • min=0 \ max=32 SFP Transceivers • 2 port expansion module slots • 1U - Height	JD374A See Configuration Note:1, 3, 10
C15 PDU NA • C15 to C14 Jumper Cord (NA)	JD374A#B2B
C15 PDU ROW C15 to C14 Jumper Cord (ROW)	JD374A#B2C
HP 5500-24G-PoE+ EI Switch w/2 Intf Slts 24 RJ-45 autosensing 10/100/1000 PoE+ports 4 dual-personality ports; autosensing 10/100/1000Base-T or SFP min=0 \ max=4 SFP Transceivers 2 port expansion module slots 1U - Height	JG241A See Configuration Note:1, 3, 10
 24 RJ-45 autosensing 10/100/1000 PoE+ports 4 dual-personality ports; autosensing 10/100/1000Base-T or SFP min=0 \ max=4 SFP Transceivers 2 port expansion module slots 	See Configuration
 24 RJ-45 autosensing 10/100/1000 PoE+ports 4 dual-personality ports; autosensing 10/100/1000Base-T or SFP min=0 \ max=4 SFP Transceivers 2 port expansion module slots 1U - Height C15 PDU NA	See Configuration Note:1, 3, 10



C15 PDU NAC

• 15 to C14 Jumper Cord (NA)

JD375A#B2B

Configuration

C15 PDU ROW JD375A#B2C

• C15 to C14 Jumper Cord (ROW)

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

JG240A

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

See

• 4 dual-personality ports; autosensing10/100/1000Base-T or SFP

Configuration

• min=0 \ max=4 SFP Transceivers

Note:1, 3, 10

• 2 port expansion module slots

• 1U - Height

C15 PDU NA JG240A#B2B

C15 to C14 Jumper Cord (NA)

C15 PDU ROW JG240A#B2C

C15 to C14 Jumper Cord (ROW)

Configuration Rules:

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

HP X120 1G SFP LC SX Transceiver	JD118B
HP X120 1G SFP LC LX Transceiver	JD119B
HP X120 1G SFP LC BX 10-U Transceiver	JD098B
HP X120 1G SFP LC BX 10-D Transceiver	JD099B
HP X124 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 X115 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X110 100M SFP LC FX Dual Mode Transceiver	JD497A
HP X120 1G SFP RJ45 T Transceiver	JD089B

Note 3 If the CTO Base Model is ordered #0D1, Then #B2B, or #B2C is Required on the Switch. (Optional when Switch is

not Factory Racked. See Drop down remark in "Remarks" section.)

Note 10 If the CTO Switch Chassis needs to be racked, Then the CTO Base Model needs to integrate (with #OD1) to the HP

Universal Rack.

Remarks:



Configuration

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

Switch to PDU Power Cord - Should replace localized option with #B2B in AMS or #B2C in APJ or 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 above if order is factory built.

Internal Power Supplies

(JD374A and JG249A Switches Only) (std 1 // max 2) User Selection (min 0 // max 1) per switch enclosure

HP 5500 150WAC Power Supply

HP 5500 150WDC Power Supply

JD362A

JD366A

• includes 1 x c13, 910w See Configuration

Note:1, 2

C15 PDU NA JD362A#B2B

C15 to C14 Jumper Cord (NA)

C15 PDU ROW JD362A#B2C

C15 to C14 Jumper Cord (ROW)

220 NA JD362A#B2E

NEMA L6-20P Cord

Configuration Rules:

Note 1 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.)

Note 2 If #B2E is selected Then replace Localized option with #B2E for power supply and with #B2E for switch. (Offered

only in AMS, Taiwan, and Japan)

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

Remarks: If Power Supply is added to switch with power supply, then Switch and Power Supply localization must match.

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 or EMEA.

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

High Volt Power Cord - Should replace Localized option with #B2E for power supply and with #B2E for switch.

(Offered only in AMS, Taiwan, and Japan)



JD183A

JG136A

JG137A

QuickSpecs

Configuration

Switch Enclosure Options

External Redundant Power Supplies

HP RPS 800 Redundant Power Supply

Height = 1U
 includes 1 x c13
 See Configuration
 Note:2

HP RPS1600 Redundant Power System

Height = 1U
 includes 1 x c13, 1600w and Power Supply port
 See Configuration
 Note:2, 3

HP RPS1600 1600W AC Power Supply

• Installs into JG136A only

See Configuration
Note:1, 3

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

Options for the HPN 5500 Power Supplies

HP 5500 2-port 10GbE XFP Module

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.

Modules

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

• min=0 \ max=2 XFP Transceivers See Configuration

Note:2

JD359B



Configuration

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

 min=0 \ max=1 XFP Transceivers **See Configuration**

Note:2

JD361B

HP A5500/A5120-EI 2-port 10-GbE SFP+ Module

• min=0 \ max=2 SFP+ Transceivers **See Configuration**

Note:1

JD367A

JD368B

HP 5500/4800 2-port GbE SFP Module

• min=0 \ max=2 SFP Transceivers **See Configuration**

Note:3

Configuration Rules:

Note 1	The following Transceivers install into this Module: (Use #0D1 or #B01 if switch is CTO)	
	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+ 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 X120 1G SFP LC SX Transceiver	JD118B
	HP X120 1G SFP LC LX Transceiver	JD119B
	HP X120 1G SFP RJ45 T Transceiver	JD089B
	HP X120 1G SFP LC BX 10-U Transceiver	JD098B
	HP X120 1G SFP LC BX 10-D Transceiver	JD099B
	HP X124 1G SFP LC LH40 1310nm Transceiver	JD061A
	HP X120 1G SFP LC LH40 1550nm Transceiver	JD062A
	HP X125 1G SFP LC LH70 Transceiver	JD063B
Note 2	The following Transceivers install into this Module: (Use #0D1 if switch is CTO)	
	HP X135 10G XFP LC ER Transceiver	JD121A
	HP X130 10G XFP SC LR Transceiver	JD108B
	HP X130 10G XFP LC SR Transceiver	JD117B
Note 3	The following Transceivers install into this Module: (Use #0D1 if switch is CTO)	
Hote J	HP X120 1G SFP LC SX Transceiver	JD118B
	HP X120 1G SFP LC LX Transceiver	JD118B JD119B
	HP X120 1G SFP LC EX Transceiver	JD098B
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Configuration

UD V130 1C CED I C DV 10 D Transcriver	IDOOOR
HP X120 1G SFP LC BX 10-D Transceiver	JD099B
HP X124 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 X115 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X110 100M SFP LC FX Dual Mode Transceiver	JD497A
HP X120 1G SFP RJ45 T Transceiver	JD089B
The following Cables install into this Module: (Use #B01 if switch is CTO)	
HP X230 Local Connect 50cm CX4 Cable	JD363B
HP X230 Local Connect CX4 300 cm 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

Note 4

SFP Transceivers

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 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 X115 100M SFP LC FX Transceiver	JD102B
HP X110 100M SFP LC LX Transceiver	JD120B
HP X110 100M SFP LC LH40 Transceiver	JD090A
HP X110 100M SFP LC LH80 Transceiver	JD091A
HP X110 100M SFP LC FX DM Transceiver	JD497A
HP X120 1G SFP RJ45 T Transceiver	JD089B

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+ 0.65m DAC Cable	JD095C#B01
HP X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C#B01



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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

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#B01
HP X230 Local Connect CX4 300 cm Cable	JD364B#B01
HP X230 CX4 to CX4 3m Cable	JD365A#B01

Multi-Mode Cables

HP .5m Multi-mode OM3 LC/LC FC Cable	AJ833A
HP 1m Multi-mode OM3 LC/LC FC Cable	AJ834A
HP 2 m Multimode OM3 LC/LC FC Cable	AJ835A
HP 5 m Multimode OM3 LC/LC FC Cable	AJ836A
HP 15 m Multimode OM3 LC/LC FC Cable	AJ837A
HP 30 m Multimode OM3 LC/LC FC Cable	AJ838A
HP 50 m Multimode OM3 LC/LC FC Cable	AJ839A



Technical Specifications

HP 5500-24G EI Switch with 2 Interface Slots (JD377A)

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

1000BASE-T: full only

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

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

Supports a maximum of 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 8.82 lb (4 kg)

Memory and processor 256 MB SDRAM, 32 MB flash; packet buffer size: 2 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 107.2 million pps

Routing/Switching

capacity

144 Gbps

Routing table size 12000 entries

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

Electrical characteristics

Maximum heat

375 BTU/hr (395.63 kJ/hr)

dissipation

100-240 VAC Voltage

Maximum power rating 110 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; IEEE 802.3

Ethernet MIB



Technical Specifications

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 software phone support (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 5500-24G DC EI Switch (JD373A)

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

1000BASE-T: full only

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

2 port expansion module slots

1 RJ-45 serial console port

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



Technical Specifications

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 8.82 lb (4 kg)

Memory and processor 256 MB SDRAM, 32 MB flash; packet buffer size: 2 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 107.2 million pps

Routing/Switching

capacity

144 Gbps

Routing table size 12000 entries

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

Electrical characteristics Maximum heat

Maximum head dissipation

358 BTU/hr (377.69 kJ/hr)

DC Voltage -48 to -60 VDC

Maximum power rating 105 W Frequency 50/60 Hz

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

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

modules populated.

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; IEEE 802.3

Ethernet MIB

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 software phone support (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)



Technical Specifications

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 5500-24G-PoE EI Switch (JD378A)

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 802.3af 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 (44 x 42 x 4.36 cm) (10 height)

Weight 13.23 lb (6 kg)

Memory and processor 256 MB SDRAM, 32 MB flash; packet buffer size: 2 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 107.2 million pps

Routing/Switching 144 Gbps

capacity



Technical Specifications

Routing table size 12000 entries

Environment Operating temperature32°F to 113°F (0°C to 45°C) **Operating relative**10% to 90%, noncondensing

humidity

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Electrical characteristics Maximum heat

dissipation

700 BTU/hr (738.5 kJ/hr)

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

Maximum power rating575 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).

With DC input, the maximum power consumption is 485 W (370 W for PoE).

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

60950-1; CAN/CSA-C22.2 No. 60950-1; 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; IEEE 802.3

Ethernet MIB

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 software phone support (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)

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)

Technical Specifications

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 EI Switch with 2 Interface Slots (JD375A)

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 9.92 lb (4.5 kg)

Memory and processor 256 MB SDRAM, 32 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 142.9 million pps

Routing/Switching 192 Gbps

capacity

Routing table size 12000 entries

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

Operating relative

humidity

10% to 90%, noncondensing



Technical Specifications

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Electrical characteristics Maximum heat

392 BTU/hr (413.56 kJ/hr)

dissipation

Voltage 100-240 VAC

Maximum power rating 115 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.

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

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

IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; IEEE 802.3 Management

Ethernet MIB

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 software phone support (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)

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

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)



Technical Specifications

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

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

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 5500-48G-PoE EI Switch (JD376A)

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

IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af 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 slots 1 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 (44 x 42 x 4.36 cm) (1U height)

> Weight 14.33 lb (6.5 kg)

Memory and processor 256 MB SDRAM, 32 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 142.9 million pps

Routing/Switching

capacity

192 Gbps

Routing table size 12000 entries

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

Operating relative

humidity

10% to 90%, noncondensing

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

temperature

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Electrical characteristics Maximum heat

dissipation

921 BTU/hr (971.66 kJ/hr)

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

Maximum power rating 910 W PoE power 740 W



Technical Specifications

Emissions

Frequency 50/60 Hz

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

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

modules populated.

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 640 W (370 W for PoE).

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

60950-1; CAN/CSA-C22.2 No. 60950-1; 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; 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; IEEE 802.3

Ethernet MIB

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 software phone support (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)

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)

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)



Technical Specifications

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-SFP EI Switch with 2 Interface Slots (JD374A)

Ports 24 fixed Gigabit Ethernet SFP ports

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

2 port expansion module slots1 RJ-45 serial console port

Physical characteristics Dimensions 17.32(w) x 14.17(d) x 1.72(h) in (44 x 36 x 4.36 cm) (1U height)

Weight 13.89 lb (6.3 kg)

Memory and processor 256 MB SDRAM, 32 MB flash; packet buffer size: 2 MB

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

 Performance
 1000 Mb Latency
 < 3.2 μs</th>

 10 Gbps Latency
 < 2.6 μs</th>

Throughput 107.2 million pps

Routing/Switching

144 Gbps

capacity

Routing table size 12000 entries

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

Electrical characteristics Maximum heat

dissipation

392 BTU/hr (413.56 kJ/hr)

Voltage 100-240 VAC

Maximum power rating 115 W Frequency 50/60 Hz

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

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

modules populated.

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 61000-4-6; 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

Technical Specifications

Management IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; IEEE 802.3

Ethernet MIB

Notes 1 power supply included

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 software phone support (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 5500-24G-SFP DC EI Switch (JD379A)

Ports 24 fixed Gigabit Ethernet SFP ports

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

2 port expansion module slots1 RJ-45 serial console port



Technical Specifications

Physical characteristics Dimensions 17.32(w) x 14.17(d) x 1.72(h) in (44 x 36 x 4.36 cm) (1U height)

> Weight 13.89 lb (6.3 kg)

Memory and processor 256 MB SDRAM, 32 MB flash; packet buffer size: 2 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 107.2 million pps

Routing/Switching

capacity

144 Gbps

Routing table size 12000 entries

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

Operating relative

humidity

10% to 90%, noncondensing

Nonoperating/Storage

temperature

-58°F to 158°F (-50°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Electrical characteristics Maximum heat

dissipation

392 BTU/hr (413.56 kJ/hr)

DC Voltage -48 to -60 VDC

Maximum power rating 115 W Frequency 50/60 Hz

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

> theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all

modules populated.

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

IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; IEEE 802.3 Management

Ethernet MIB

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 software phone support (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)



Technical Specifications

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-PoE+ EI Switch with 2 Interface Slots (JG240A)

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)

Weight 14.33 lb. (6.5 kg)

Memory and processor 256 MB SDRAM, 32 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 142.9 million pps

Routing/Switching 192 Gbps

capacity



Technical Specifications

Routing table size 12000 entries

Environment Operating temperature32°F to 113°F (0°C to 45°C) **Operating relative**10% to 90%, noncondensing

humidity

Nonoperating/Storage -

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Electrical characteristics Maximum heat

dissipation

921 BTU/hr (971.66 kJ/hr)

Voltage 100-240 VAC

Maximum power rating910 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 640 W (370 W for PoE).

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

60950-1; CAN/CSA-C22.2 No. 60950-1; 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; IEEE

802.3 Ethernet MIB

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 software phone support (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

Technical Specifications

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

HP 5500-24G-PoE+ EI Switch with 2 Interface Slots (JG241A)

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 1.69(h) in (43.99 x 42.01 x 4.29 cm) (1U height)

Weight 13.23 lb (6 kg)

Memory and processor 256 MB SDRAM, 32 MB flash; packet buffer size: 2 MB

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

10 Gbps Latency < 2.6 μs

Throughput 107.2 million pps

Routing/Switching

capacity

144 Gbps

Routing table size 12000 entries

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

Operating relative

humidity

10% to 90%, noncondensing

1070 to 5070, Horiconachsing

Nonoperating/Storage

temperature

-40°F to 158°F (-40°C to 70°C)

Nonoperating/Storage

relative humidity

5% to 95%, noncondensing

Electrical characteristics Maximum heat

Maximum hea dissipation

700 BTU/hr (738.5 kJ/hr)

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

Maximum power rating575 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).

With DC input, the maximum power consumption is 485 W (370 W for PoE).



Technical Specifications

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

60950-1; CAN/CSA-C22.2 No. 60950-1; 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; IEEE

802.3 Ethernet MIB

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 software phone support (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.

Standards and protocols

(applies to all products in series)

BGP

RFC 1657 Definitions of Managed Objects for

BGPv4

RFC 1771 BGPv4

Device management

RFC 2858 BGP-4 Multi-Protocol Extensions

RFC 2462 IPv6 Stateless Address Auto-configuration

RFC 2463 ICMPv6

RFC 2464 Transmission of IPv6 over Ethernet

Networks

RFC 2475 IPv6 DiffServ Architecture

RFC 2710 Multicast Listener Discovery (MLD) for

IPv6

RFC 1157 SNMPv1/v2c RFC 2740 OSPFv3 for IPv6

RFC 1256 ICMP Router Discovery Protocol (IRDP)

RFC 2893 Transition Mechanisms for IPv6 Hosts

RFC 1305 NTPv3 and Routers

RFC 1901 (Community based SNMPv2)

RFC 2925 Definitions of Managed Objects for

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 RFC 2925 Remote Operations MIB (Ping only)
RFC 3056 Connection of IPv6 Domains via IPv4

Remote Ping, Traceroute, and Lookup Operations

Clouds

(Ping only)

RFC 3162 RADIUS and IPv6

RFC 3306 Unicast-Prefix-based IPv6 Multicast

Addresses

RFC 3307 IPv6 Multicast Address Allocation

RFC 3315 DHCPv6 (client and relay)

RFC 3484 Default Address Selection for IPv6

RFC 3493 Basic Socket Interface Extensions for IPv6



Technical Specifications

SSHv1/SSHv2 Secure Shell

General protocols

IEEE 802.1ad Q-in-Q IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.10 (GVRP)

IEEE 802.1w Rapid Reconfiguration of Spanning

Tree

IEEE 802.3ab 1000BASE-T

IEEE 802.3ad Link Aggregation (LAG)
IEEE 802.3ae 10-Gigabit Ethernet
IEEE 802.3af Power over Ethernet

IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-X IEEE 802.3x Flow Control IEEE 802.3z 1000BASE-X

RFC 768 UDP RFC 791 IP RFC 792 ICMP RFC 793 TCP RFC 854 TELNET

RFC 925 Multi-LAN Address Resolution

RFC 950 Internet Standard Subnetting Procedure

RFC 951 BOOTP RFC 1027 Proxy ARP RFC 1058 RIPv1

RFC 1122 Host Requirements

RFC 1141 Incremental updating of the Internet

checksum

RFC 1213 Management Information Base for Network Management of TCP/IP-based internets RFC 1256 ICMP Router Discovery Protocol (IRDP)

RFC 1305 NTPv3

RFC 1350 TFTP Protocol (revision 2)

RFC 1519 CIDR

RFC 1542 BOOTP Extensions

RFC 1723 RIP v2 RFC 1812 IPv4 Routing

RFC 1887 An Architecture for IPv6 Unicast Address

Allocation RFC 2131 DHCP

RFC 2236 IGMP Snooping

RFC 2338 VRRP

RFC 2375 IPv6 Multicast Address Assignments

RFC 2616 HTTP Compatibility v1.1 RFC 2644 Directed Broadcast Control RFC 2865 Remote Authentication Dial In User

Service (RADIUS)

RFC 2866 RADIUS Accounting RFC 3246 Expedited Forwarding PHB 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

RFC 1213 MIB II RFC 1657 BGP-4 MIB RFC 1724 RIPv2 MIB

RFC 1757 Remote Network Monitoring MIB

RFC 1850 OSPFv2 MIB

RFC 2012 SNMPv2 MIB for TCP RFC 2013 SNMPv2 MIB for UDP

RFC 2233 Interface MIB RFC 2452 IPV6-TCP-MIB RFC 2454 IPV6-UDP-MIB RFC 2465 IPv6 MIB RFC 2466 ICMPv6 MIB

RFC 2571 SNMP Framework MIB RFC 2572 SNMP-MPD MIB

RFC 2573 SNMP-Target MIB RFC 2574 SNMP USM MIB

RFC 2618 RADIUS Authentication Client MIB RFC 2620 RADIUS Accounting Client MIB

RFC 2787 VRRP MIB RFC 2819 RMON MIB RFC 2925 Ping MIB

RFC 3414 SNMP-User based-SM MIB RFC 3415 SNMP-View based-ACM MIB

RFC 4113 UDP MIB

Network management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

IEEE 802.1D (STP) RFC 1157 SNMPv1

RFC 1212 Concise MIB definitions RFC 1215 SNMP Generic traps

RFC 1757 RMON 4 groups: Stats, History, Alarms

and Events

RFC 1901 SNMPv2 Introduction

RFC 1918 Private Internet Address Allocation RFC 2373 Remote Network Monitoring

Management Information Base for High Capacity

Networks

RFC 2571 An Architecture for Describing SNMP

Management Frameworks

RFC 2572 Message Processing and Dispatching for



Technical Specifications

RFC 3410 Applicability Statements for SNMP RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)

RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)

RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP)

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

RFC 3493 Basic Socket Interface Extensions for IPv6 RFC 3542 Advanced Sockets Application Program Interface (API) for IPv6

RFC 3587 IPv6 Global Unicast Address Format

RFC 3596 DNS Extensions to Support IP Version 6

RFC 3623 Graceful OSPF Restart

RFC 3704 Unicast Reverse Path Forwarding (URPF) RFC 3768 VRRP

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

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)

IP multicast

RFC 2236 IGMPv2

RFC 2710 Multicast Listener Discovery (MLD) for IPv6

RFC 2858 Multiprotocol Extensions for BGP-4 RFC 3376 IGMPv3

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

RFC 3618 Multicast Source Discovery Protocol (MSDP)

RFC 3973 PIM Dense Mode RFC 4601 PIM Sparse Mode

IPv6

RFC 1881 IPv6 Address Allocation Management RFC 1887 IPv6 Unicast Address Allocation Architecture

RFC 1981 IPv6 Path MTU Discovery RFC 2080 RIPng for IPv6

RFC 2373 IPv6 Addressing Architecture RFC 2375 IPv6 Multicast Address Assignments the Simple Network Management Protocol (SNMP)

RFC 2573 SNMP Applications

RFC 2574 SNMPv3 User-based Security Model (USM)

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

RFC 2576 Coexistence between SNMP versions

RFC 2578 SMIv2

RFC 2581 TCP6

RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)

RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations RFC 3176 sFlow

RFC 3410 Introduction to Version 3 of the

Internet-standard Network Management Framework RFC 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

OSPF

RFC 1587 OSPF NSSA RFC 1850 OSPFv2 Management Information Base (MIB), traps RFC 2328 OSPFv2 RFC 2370 OSPF Opaque LSA Option RFC 3623 Graceful OSPF Restart

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 1918 Address Allocation for Private Internets RFC 2865 RADIUS Authentication RFC 2866 RADIUS Accounting Access Control Lists (ACLs) MAC Authentication Port Security SSHv2 Secure Shell



Technical Specifications

RFC 2460 IPv6 Specification RFC 2461 IPv6 Neighbor Discovery



Accessories

HP 5500 EI Switch Series	Modules	
accessories	HP 5500 2-port 10GbE XFP Module	JD359B
	HP 5500 2-port 10GbE Local Connect Module	JD360B
	HP 5500 1-port 10GbE XFP Module	JD361B
	HP 5500/4800 2-port GbE SFP Module	JD367A
	HP 5500/5120 2-port 10GbE SFP+ Module	JD368B
	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 X110 100M SFP LC LH40 Transceiver	JD090A
	HP X110 100M SFP LC LH80 Transceiver	JD091A
	HP X130 SFP+ LC SR Transceiver	JD092B
	HP X130 SFP+ LC LRM Transceiver	JD093B
	HP X130 SFP+ LC LR Transceiver	JD094B
	HP X120 1G SFP LC BX 10-U Transceiver	JD098B
	HP X120 1G SFP LC BX 10-D Transceiver	JD099B
	HP X110 100M SFP LC FX Transceiver	JD102B
	HP X130 10G XFP LC LR Transceiver	JD108B
	HP X130 10G XFP LC SR Transceiver	JD117B
	HP X120 1G SFP LC SX Transceiver	JD118B
	HP X120 1G SFP LC LX Transceiver	JD119B
	HP X110 100M SFP LC LX Transceiver	JD120B
	HP X135 10G XFP LC ER Transceiver	JD121A
	HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
	HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
	HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
	HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
	HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
	HP X110 100M SFP LC FX Dual Mode Transceiver	JD497A
	HP X110 100M SFP LC LX Dual Mode Transceiver	JD498A
	HP X120 1G SFP RJ45 T Transceiver	JD089B
	HP X130 10G SFP+ LC ER 40km 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 OM4 2 fiber 1m Cable

QK732A

HP 5500 EI Switch Series

QuickSpecs

Accessories

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK734A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK735A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK736A
HP 50 m PremierFlex OM3+ LC/LC Optical Cable	QK737A
HP X230 Local Connect 50cm CX4 Cable	JD363B
Power Supply	
HP 5800/5500 150W AC Power Supply	JD362A
HP 5800/5500 150W DC Power Supply	JD366A
HP RPS 800 Redundant Power System	JD183A
HP RPS 1600 Redundant Power System	JG136A
HP RPS 1600 1600W AC Power Supply	JG137A
Power cords Power cords	
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



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 services 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 services 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 pluggable SFP Gigabit LH40 transceiver that provides a full duplex Gigabit solution up to 40km on a single- mode fiber.	Connectivity	Connector type	LC	
		Wavelength	1310 nm	
	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)	
		Full configuration weight	0.04 lb. (0.02 kg)	
	Electrical characteristics	, ,,,		
		Power consumption 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

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 **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)

Power consumption typical 0.8 W **Electrical characteristics**

Power consumption 1.0 W

maximum

Cabling Cable type:

Physical characteristics

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

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

pluggable (SFP) Gigabit LX- **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 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

provides a full duplex Gigabit solution up to

10km on a single mode

cable.

D Transceiver (JD099B) full only

Connectivity Connector type LC

Connectivity Connector type LC

A small form-factor
Plyggable (SCD) Graphit V

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 Maximum distance:

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

transceiver that provides a

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-duplex Gigabit solution 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

Dual mode transceiver that

provides a full duplex

100Mb/s soolution up to

2km on a multi mode fiber.

transceiver that provides a

a single mode cable.

HP X110 100M SFP LC FX Ports 1 LC 100 Mbps port

Dual Mode Transceiver Connectivity Connector type

Dual Mode Transceiver Connectivity Connector type LC (JD497A)

Wavelength 1310 nm

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) 100 MB/s 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 length 2km

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.

HP X110 100M SFP LC LX10 Ports 1 LC 100 Mbps port

Transceiver (JD498A) Connectivity Connector type LC

A small form-factor Wavelength 1310 nm

pluggable (SFP) 100Mb/s **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 duplex 100Mb/s Full configuration weight 0.04 lb. (0.02 kg)

solution for up to 10km on Electrical characteristics Power consumption 0.8 W

typical

Power consumption 1.0 W

maximum .

Cabling Cable length 10km

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

HP X120 1G SFP RJ45 T

Ports

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

Transceiver (JD089B)

Connectivity

RJ-45 Connector type

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

Gigabit solution up to

100m on a Cat-5+ cable.

that provides a full duplex

Physical characteristics

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

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 4pair 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 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

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: Agua for OM3 multimode per TIA 598
- **Boot Color: White**
- Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters.
- Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310



Services

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

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

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:

 $50/125~\mu m$ (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

Cabling

Notes

Accessory Product Details

HP 5 m Multimode OM3 LC/LC Optical Cable

(AJ836A)

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

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.

- 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 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.
- \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 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 0M4 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.
- \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

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.

- \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 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

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

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.

To learn more, visit: www.hp.com/networking

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