QuickSpecs

Overview

HPE 5500 El Switch Series

HPE 5500 El Switch Series

Models

HP 5500-24G EI Switch	JD377A
HP 5500-48G EI Switch	JD375A
HP 5500-24G-SFP EI Switch	JD374A
HP 5500-48G-PoE+ EI Switch with 2 Interface Slots	JG240A
HP 5500-24G-PoE+ El 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 HPE 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 10GbE expansion capability. The all-fiber model with dual power supplies is ideal for applications that require the highest availability.

Features and benefits

Software-defined networking

OpenFlow

supports OpenFlow 1.0 and 1.3 specifications to enable SDN by allowing separation of the data (packet forwarding) and control (routing decision) paths

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

Hewlett Packard Enterprise

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Management

- Friendly port names: allow assignment of descriptive names to ports
- Remote configuration and management: is available through a secure Web browser or a CLI
- Manager and operator privilege levels: enable read-only (operator) and read-write (manager) access on CLI and Web browser management interfaces
- **Command authorization**: leverages HWTACACS to link a custom list of CLI commands to an individual network administrator's login; also provides an audit trail
- Secure Web GUI: provides a secure, easy-to-use graphical interface for configuring the module via HTTPS
- 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 wirespeed network monitoring and accounting with no impact on network performance; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes
- Management VLAN: segments traffic to and from management interfaces, including CLI/telnet, a Web browser interface, and SNMP
- Remote Intelligent Mirroring: mirrors ingress/egress ACL-selected traffic from a switch port or VLAN to a local or remote switch port anywhere on the network
- **Device Link Detection Protocol** (DLDP): monitors a cable between two switches and shuts down the ports on both ends if the cable is broken, preventing network problems such as loops
- **IPv6 management**: 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**: deliver, through the use of optional modules, additional 10GbE connections, which are available for uplinks or high-bandwidth server connections; flexibly support copper, XFP, SFP+, or CX4 local connections
- **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 operations, administration and maintenance (OAM): detects data link layer problems that occurred in the "last mile" using the IEEE 802.3ah OAM standard; monitors the status of the link between two devices
- High-bandwidth CX4 and SFP+ local stacking: provide 10 Gb/s SPF+ or 12 Gb/s CX4 local stacking cables; achieve a
 resilient stacking configuration

Performance

• Nonblocking architecture

up to 192 Gb/s nonblocking switching fabric provides wire-speed switching with up to 143 million pps throughput

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• Hardware-based wirespeed access control lists (ACLs) help provide high levels of security and ease of administration without impacting network performance with a feature-rich TCAM-based ACL implementation

Resiliency and high availability

- Separate data and control paths: keeps control separated from services and keeps service processing isolated; increases security and performance
- External redundant power supply: provides high reliability
- **Smart link**: allows 50 ms failover between links
- Spanning Tree/MSTP, 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 Fabric (IRF): creates virtual resilient switching fabrics, where two or more switches perform as a single L2 switch and L3 router; switches do not have to be co-located and can be part of a disaster recovery system; servers or switches can be attached using standard LACP for automatic load balancing and high availability; can eliminate the need for complex protocols like Spanning Tree Protocol, Equal-Cost Multipath (ECMP), or VRRP, thereby simplifying network operation
- 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 bandwidth
- Policy-based routing: makes routing decisions based on policies set by the network administrator

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- 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
 - Automatic VLAN assignment: automatically assigns users to the appropriate VLAN based on their identities
- Secure management access: securely encrypts all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3
- Secure FTP: allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file
- Guest VLAN: provides a browser-based environment to authenticated clients that is similar to IEEE 802.1X
- Endpoint Admission Defense (EAD): provides security policies to users accessing a network
- **Port security**: allows access only to specified MAC addresses, which can be learned or specified by the administrator
- 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): facilitates easy mapping using network management applications with LLDP automated device discovery protocol
- **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**: supports multiple methods (automatic, IEEE 802.3af class, LLDP-MED, or user-specified) to allocate PoE power for more efficient energy savings
- Voice VLAN: automatically assigns VLAN and priority for IP phones, simplifying network configuration and maintenance
- IP multicast snooping (data-driven IGMP): prevents flooding of IP multicast traffic

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- Internet Group Management Protocol (IGMP): utilizes Any-Source Multicast (ASM) or Source-Specific Multicast (SSM) to manage IPv4 multicast networks; supports IGMPv1, v2, and v3
- **Protocol Independent Multicast** (PIM): defines modes of Internet multicasting to allow one-to-many and many-to-many transmission of information; supports PIM Dense Mode (DM), Sparse Mode (SM), and Source-Specific Multicast (SSM)
- Multicast Source Discovery Protocol (MSDP): allows multiple PIM-SM domains to interoperate; is used for inter-domain multicast applications
- **Multicast Border Gateway Protocol** (MBGP): allows multicast traffic to be forwarded across BGP networks and kept separate from unicast traffic
- **Multicast VLAN**: allows multiple VLANs to receive the same IPv4 or IPv6 multicast traffic, lessening network bandwidth demand by reducing or eliminating multiple streams to each VLAN

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

Limited Lifetime Warranty

see <u>http://www.hpe.com/networking/warrantysummary</u> for warranty and support information included with your product purchase.

• Software releases

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

QuickSpecs

Configuration

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

Switch Chassis

HP 5500-24G 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 Power Supply included 1U - Height	JD377A See Configuration NOTE:1 , 3
PDU CABLE NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JD377A#B2B
PDU CABLE ROWC15 PDU Jumper Cord (ROW)	JD377A#B2C
 High Volt Switch to Wall Power Cord NEMA L6-20P Cord (NA/MEX/JP/TW) 	JD377A#B2E
 HP 5500-24G-SFP EI Switch 24 fixed Gigabit Ethernet SFP ports (Of the 24, 8 are dual-personality ports; autosensing 10/100/1000Base-T or SFP) min=0 \ max=2432 SFP Transceivers 2 - port expansion module slots 1 - JD362A - HP 5500 150WAC Power Supply Included 1U - Height 	JD374A See Configuration NOTE:1 , 3
PDU CABLE NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JD374A#B2B
PDU CABLE ROWC15 PDU Jumper Cord (ROW)	JD374A#B2C
 High Volt Switch to Wall Power Cord NEMA L6-20P Cord (NA/MEX/JP/TW) 	JD374A#B2E

QuickSpecs

HPE 5500 EI Switch Series

Configuration	
 HP 5500-24G-PoE+ El Switch with 2 Interface Slots 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 Power Supply included 1U - Height 	JG241A See Configuration NOTE:1 , 3
PDU CABLE NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JG241A#B2B
 PDU CABLE ROW C15 PDU Jumper Cord (ROW) 	JG241A#B2C
 High Volt Switch to Wall Power Cord NEMA L6-20P Cord (NA/MEX/JP/TW) 	JG241A#B2E
 HP 5500-48G El Switch 48 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 Power Supply included 1U - Height 	JD375A See Configuration NOTE:1 , 3
 PDU CABLE NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP) 	JD375A#B2B
PDU CABLE ROWC15 PDU Jumper Cord (ROW)	JD375A#B2C
 High Volt Switch to Wall Power Cord NEMA L6-20P Cord (NA/MEX/JP/TW) 	JD375A#B2E
HP 5500-48G-PoE+ El Switch with 2 Interface Slots • 48 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 • Power Supply included • 111 Haight	JG240A See Configuration NOTE:1 , 3

QuickSpec	:s	HPE 5500 EI Switch Series
Configu	ration	
	E NA/MEX/TW/JP 15 PDU Jumper Cord (NA/MEX/TW/JP)	JG240A#B2B
PDU CABL • C	E ROW 15 PDU Jumper Cord (ROW)	JG240A#B2C
5	Switch to Wall Power Cord EMA L6-20P Cord (NA/MEX/JP/TW)	JG240A#B2E
Configurat	ion Rules:	
Note 1	The following Transceivers install into this Switch HPE X120 1G SFP LC SX Transceiver HPE X120 1G SFP LC LX Transceiver HPE X120 1G SFP LC BX 10-U Transceiver HPE X120 1G SFP LC BX 10-D Transceiver HPE X125 1G SFP LC LH40 1310nm Transceiver HPE X120 1G SFP LC LH40 1550nm Transceiver HPE X125 1G SFP LC LH40 1550nm Transceiver HPE X125 1G SFP LC LH70 Transceiver HPE X115 100M SFP LC FX Transceiver HPE X110 100M SFP LC LX Transceiver HPE X110 100M SFP LC LH40 Transceiver HPE X110 100M SFP LC LH80 Transceiver HPE X120 1G SFP RJ45 T Transceiver	JD118B JD119B JD098B JD099B JD061A JD062A JD063B JD102B JD120B JD120B JD090A JD091A JD091A
Note 3	Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power C #B2E. (See Localization Menu)	Cord) or
Remarks	Drop down under power supply should offer the following options and results: Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Ta Japan or #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO) Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default f Box Level CTO) High Volt Switch/Router/Power Supply to Wall Power Cord - #B2E Option. (Offered of America, Mexico, Taiwan, and Japan)	or BTO and

Box Level Integration CTO Models

CTO Solution Sku

- HP 55xx CTO Switch Solution
 - SSP trigger sku

JG506A

QuickSpecs

Configuration

CTO Base Sku

2 - port expansion module slots

•

HP 550	0-24G El 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 2 - port expansion module slots Power Supply Included 1U - Height	See Configuration NOTE: 1, 3, 6, 7
	ble NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP)	JD377A#B2B
PDU Ca	ble ROW	JD377A#B2C
•	C15 PDU Jumper Cord (ROW)	
High Va •	It Switch to Wall Power Cord NEMA L6-20P Cord (NA/MEX/JP/TW)	JD377A#B2E
HP 550 • • • •	0-24G-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 1 - JD362A - HP 5500 150WAC Power Supply Included 1U - Height	JD374A See Configuration NOTE:1 , 3, 6, 7
PDU Ca	ble NA/MEX/TW/JP C15 PDU Jumper Cord (NA/MEX/TW/JP)	JD374A#B2B
PDU Ca •	ble ROW C15 PDU Jumper Cord (ROW)	JD374A#B2C
High Vo •	It Switch to Wall Power Cord NEMA L6-20P Cord (NA/MEX/JP/TW)	JD374A#B2E
HP 550 • •	0-24G-PoE+ EI Switch with 2 Interface Slots 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	JG241A See Configuration NOTE: 1, 3, 6, 7

HPE 5500 El Switch Series

QuickSpecs	HPE 5500 El Switch Seri
Configuration	
Power Supply included1U - Height	
PDU Cable NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JG241A#B2B
PDU Cable ROW • C15 PDU Jumper Cord (ROW)	JG241A#B2C
High Volt Switch to Wall Power CordNEMA L6-20P Cord (NA/MEX/JP/TW)	JG241A#B2E
 HP 5500-48G EI Switch 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 Power Supply included 1U - Height 	JD375A See Configuration NOTE:1 , 3, 6, 7
PDU Cable NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JD375A#B2B
PDU Cable ROW C15 PDU Jumper Cord (ROW) 	JD375A#B2C
 High Volt Switch to Wall Power Cord NEMA L6-20P Cord (NA/MEX/JP/TW) 	JD375A#B2E
 HP 5500-48G-PoE+ EI Switch with 2 Interface Slots 48 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 Power Supply included 1U - Height 	JG240A See Configuration NOTE: 1, 3, 6, 7

PDU Cable NA/MEX/TW/JPC15 PDU Jumper Cord (NA/MEX/TW/JP)

JG240A#B2B

QuickSpee	cs	HPE 5500 EI Switch Series
Configu	ration	
PDU Cable • Ci	e ROW 15 PDU Jumper Cord (ROW)	JG240A#B2C
0	Switch to Wall Power Cord EMA L6-20P Cord (NA/MEX/JP/TW)	JG240A#B2E
Configurat	tion Rules:	
Note 1	The following Transceivers install into this Switch : (Use #OD1 if switch HPE X120 1G SFP LC SX Transceiver HPE X120 1G SFP LC LX Transceiver HPE X120 1G SFP LC BX 10-U Transceiver HPE X120 1G SFP LC BX 10-D Transceiver HPE X125 1G SFP LC LH40 1310nm Transceiver HPE X120 1G SFP LC LH40 1550nm Transceiver HPE X125 1G SFP LC LH40 1550nm Transceiver HPE X125 1G SFP LC LH70 Transceiver HPE X115 100M SFP LC LK Transceiver HPE X110 100M SFP LC LX Transceiver HPE X110 100M SFP LC LH40 Transceiver HPE X110 100M SFP LC LH80 Transceiver HPE X120 1G SFP RJ45 T Transceiver	is CTO) JD118B JD119B JD098B JD099B JD061A JD062A JD062A JD063B JD102B JD120B JD120B JD090A JD091A JD091A JD089B
Note 3	Localization (Wall Power Cord) required on orders without #B2B, #B2C Localization Menu)	(PDU Power Cord) or #B2E. (See
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 #0D1 to be integrated to the CTO Chassis.	
Note 7	If the Switch Chassis is to be Box Level Factory Integrated (CTO), Then Chassis and integrated to the JG506A - HP 55xx CTO Enablement. (Mir	
Remark:	Drop down under power supply should offer the following options and r Switch/Router/Power Supply to PDU Power Cord - #B2B in North Amer ROW. (Watson Default B2B or B2C for Rack Level CTO) Switch/Router/Power Supply to Wall Power Cord - Localized Option (Wa High Volt Switch/Router/Power Supply to Wall Power Cord - #B2E Option Mexico, Taiwan, and Japan)	ica, Mexico, Taiwan, and Japan or #B2C atson Default for BTO and Box Level CTO)

Rack Level Integration CTO Models

Switch Chassis

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Configuration

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 HP 5500-24G EI Switch 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 Power Supply included 1U - Height 	JD377A See Configuration NOTE: 1, 3, 10
PDU CABLE NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JD377A#B2B
PDU CABLE ROW C15 PDU Jumper Cord (ROW) 	JD377A#B2C
 HP 5500-24G-SFP EI Switch 24 fixed Gigabit Ethernet SFP ports (Of the 24, 8 are dual-personality ports; autosensing 10/100/1000Base-T or SFP) min=0 \ max=2432 SFP Transceivers 2 port expansion module slots 1 - JD362A - HP 5500 150WAC Power Supply Included 1U - Height 	JD374A See Configuration NOTE: 1, 3, 10
PDU CABLE NA/MEX/TW/JP • C15 PDU Jumper Cord (NA/MEX/TW/JP)	JD374A#B2B
PDU CABLE ROW C15 PDU Jumper Cord (ROW) 	JD374A#B2C
 HP 5500-24G-PoE+ EI Switch with 2 Interface Slots 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 Power Supply included 1U - Height 	JG241A See Configuration NOTE: 1, 3, 10
PDU CABLE NA/MEX/TW/JP	JG241A#B2B

• C15 PDU Jumper Cord (NA/MEX/TW/JP)

QuickSpecs		HPE 5500 El Switch Series
Configuration		
PDU CABLE ROW • C15 PDU	Jumper Cord (ROW)	JG241A#B2C
 4 dual-pe min=0 \ n 2 port exp 	autosensing 10/100/1000 ports rsonality ports; autosensing10/100/1000Base-T or SFP nax=4 SFP Transceivers pansion module slots pply included	JD375A See Configuration NOTE:1 , 3, 10
PDU CABLE NA/M • 15 to C14	IEX/TW/JPC + Jumper Cord (NA)	JD375A#B2B
PDU CABLE ROW • C15 PDU	Jumper Cord (ROW)	JD375A#B2C
 48 RJ-45 4 dual-pe min=0 \ n 2 port exp 	E+ EI Switch with 2 Interface Slots autosensing 10/100/1000 PoE+ports rsonality ports; autosensing10/100/1000Base-T or SFP nax=4 SFP Transceivers pansion module slots pply included ht	JG240A See Configuration NOTE: 1, 3, 10
PDU CABLE NA/M • C15 PDU	IEX/TW/JP Jumper Cord (NA/MEX/TW/JP)	JG240A#B2B
PDU CABLE ROW • C15 PDU	Jumper Cord (ROW)	JG240A#B2C
Configuration Rule	25:	
ł	The following Transceivers install into this Switch: (Use #0D1 if switch is CTO) HPE X120 1G SFP LC SX Transceiver HPE X120 1G SFP LC LX Transceiver HPE X120 1G SFP LC BX 10-U Transceiver	JD118B JD119B JD098B

HPE X120 1G SFP LC BX 10-D Transceiver

HPE X125 1G SFP LC LH40 1310nm Transceiver

JD099B

JD061A

QuickSpecs		HPE 5500 EI Switch Series
Configurat	tion	
	HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
	HPE X125 1G SFP LC LH70 Transceiver	JD063B
	HPE X115 100M SFP LC FX Transceiver	JD102B
	HPE X110 100M SFP LC LX Transceiver	JD120B
	HPE X110 100M SFP LC LH40 Transceiver	JD090A
	HPE X110 100M SFP LC LH80 Transceiver	JD091A
	HPE X120 1G SFP RJ45 T Transceiver	JD089B
Note 3	Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord) . (See Localization Menu) REMARK: When Switches/Routers are Factory Racked, Then #B2B, or #B2C should be the Defaulted Power Cable option on the Switches/Routers.	
Note 10	If HPE CTO Switch Chassis is selected for Rack Level Integration, Then the Switch needs to integrate (with #0D1) to the Rack.	
Remarks:		
	Drop down under power supply should offer the following options a Switch/Router/Power Supply to PDU Power Cord - #B2B in North A #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO) Switch/Router/Power Supply to Wall Power Cord - Localized Option CTO)"	merica, Mexico, Taiwan, and Japan or

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

Internal Power Supplies

HP 5500 150WAC Power Supply

•

includes 1 x c13, 910w

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

HPE FlexNetwork 5500 150WDC Power Supply

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

JD366A See Configuration **NOTE:** 4

JD366B See Configuration **NOTE:** 4

JD362A See Configuration **NOTE:**2, 3, 4

JD362A#B2B

PDU CABLE NA/MEX/TW/JPC15 PDU Jumper Cord (NA/MEX/TW/JP)

QuickSpecs	HPE 5500 EI Switch Series
Configuration	
PDU CABLE ROWC15 PDU Jumper Cord (ROW)	JD362A#B2C
 High Volt Switch to Wall Power Cord NEMA L6-20P Cord (NA/MEX/JP/TW) 	JD362A#B2E
 HPE X361 150W 100-240VAC to 12VDC Power Supply includes 1 x c13, 910w 	JD362B See Configuration NOTE: 2, 3, 4
 PDU Cable NA/MEX/TW/JP C13 PDU Jumper Cord (NA/MEX/TW/JP) 	JD362B#B2B
PDU Cable ROWC13 PDU Jumper Cord (ROW)	JD362B#B2C
 High Volt Switch to Wall Power Cord HPE 2.3M C13 to NEMA L6-20P Power Cord (J9936A) 	JD362B#B2E
 No Power Cord No Localized Power Cord Selected 	JD362B#AC3

Configuration Rules:

- 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 (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord). (See Localization Menu) REMARK: When Switches/Routers are Factory Racked, Then #B2B, or #B2C should be the Defaulted Power Cable option on the Switches/Routers.
- Note 4 Not supported on JD377A, JG241A, JD375A, JG240A, JG251A, JG250A, JG252A, JG253A

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/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO) Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO) High Volt Switch/Router/Power Supply to Wall Power Cord - #B2E Option. (Offered only in North America, Mexico, Taiwan, and Japan)

Modules

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

QuickSpecs

Configuration

 HP 5500 2-port 10GbE XFP Module min=0 \ max=2 XFP Transceivers 	JD359B See Configuration NOTE: 2, 5, 6
 HP 5500 2-port 10GbE Local Connect Module min=0 \ max=2 CX4 Cables 	JD360B See Configuration NOTE: 4, 5, 6
 HP 5500 1-port 10GbE XFP Module min=0 \ max=1 XFP Transceivers 	JD361B See Configuration NOTE: 2, 5, 6
 HPE FlexNetwork 5500/5120 2-port 10GbE SFP+ Module min=0 \ max=2 SFP+ Transceivers 	JD368B See Configuration NOTE:1, 5, 6
 HPE FlexNetwork 5500/4800 2-port GbE SFP Module min=0 \ max=2 SFP Transceivers 	JD367A See Configuration NOTE: 3, 5, 6
 HPE FlexNetwork 5500/5120 2-port 10GBASE-T Module No Transceivers 	JG535A See Configuration NOTE: 5, 6

Configuration Rules:

Note 1	The following Transceivers install into this Module: (Use #0D1 or #B01 if switch is CTO)	
	HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
	HPE X130 10G SFP+ LC SR Transceiver	JD092B
	HPE X130 10G SFP+ LC LRM Transceiver	JD093B
	HPE X130 10G SFP+ LC LR Transceiver	JD094B
	HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
	HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
	HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
	HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
	HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
Note 2	The following Transceivers install into this Module: (Use #0D1 if switch is CTO)	
	HPE X135 10G XFP LC ER Transceiver	JD121A
	HPE X130 10G XFP LC LR Single Mode 10km 1310nm Transceiver	JD108B
	HPE X130 10G XFP LC SR Transceiver	JD117B
Note 3	The following Transceivers install into this Module: (Use #0D1 if switch is CTO)	
	HPE X120 1G SFP LC SX Transceiver	JD118B
	HPE X120 1G SFP LC LX Transceiver	JD119B
	HPE X120 1G SFP LC BX 10-U Transceiver	JD098B

HPE 5500 El Switch Series

QuickSpecs

HPE 5500 El Switch Series

Configuratio	n	
	HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
	HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
	HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
	HPE X125 1G SFP LC LH70 Transceiver	JD063B
	HPE X115 100M SFP LC FX Transceiver	JD102B
	HPE X110 100M SFP LC LX Transceiver	JD120B
	HPE X110 100M SFP LC LH40 Transceiver	JD090A
	HPE X110 100M SFP LC LH80 Transceiver	JD091A
	HPE X120 1G SFP RJ45 T Transceiver	JD089B
Note 4	The following Cables install into this Module: (Use #B01 if switch is CTO) HPE X230 Local Connect 50cm CX4 Cable HPE X230 Local Connect 100cm CX4 Cable HPE X230 CX4 to CX4 3m Cable NOTE: Two JD365A - HP X230 CX4 to CX4 3m Cable should be added by default if Module is selected.	JD363B JD364B JD365A
Note 5	If factory integrated into the switch, This Module must be ordered as #0D1 when the switch is not Factory Racked.	
Note 6	If factory integrated into the switch, This Module must be ordered as #B01 when the switch is Factory Racked (Rack Level Integration CTO).	

Transceivers

SFP Transceivers

HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B
HPE X110 100M SFP LC LH40 Transceiver	JD090A
HPE X110 100M SFP LC LH80 Transceiver	JD091A
HPE X120 1G SFP RJ45 T Transceiver	JD089B

SFP+ Transceivers

HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LRM Transceiver	JD093B
HPE X130 10G SFP+ LC LR Transceiver	JD094B

QuickSpecs	HPE 5500 El Switch Series
Configuration	
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JD095C JD096C JD097C JG081C JC784C
XFP Transceivers	
HPE X130 10G XFP LC ZR Single Mode 80km 1550nm Transceiver HPE X130 10G XFP LC LR Single Mode 10km 1310nm Transceiver HPE X130 10G XFP LC SR Transceiver HPE X135 10G XFP LC ER Transceiver	JD107A JD108B JD117B JD121A
Cables	
Local Connect Cables	
HP X230 Local Connect 50cm CX4 Cable HP X230 Local Connect 100cm CX4 Cable HP X230 CX4 to CX4 3m Cable	JD363B#B01 JD364B#B01 JD365A#B01
Multi-Mode Cables	
HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	AJ833A AJ834A AJ835A AJ836A AJ837A AJ838A AJ839A QK732A QK732A QK733A QK735A QK736A QK737A
Switch Enclosure Options	
External Redundant Power Supplies	
 HPE RPS 800 Redundant Power Supply Height = 1U includes 1 x c13 	JD183A See Configuration NOTE: 2, 4, 6
HPE RPS1600 Redundant Power SystemHeight = 1U	JG136A See Page 18

QuickSpecs

Configuration

includes 1 x c13, 1600w and Power Supply port

HPE RPS1600 1600W AC Power Supply

• Installs into JG136A only

Configuration **NOTE:**2, 3, 5

HPE 5500 EI Switch Series

JG137A 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.
Note 4	Supported only on the JD377A, JG250A, JD375A and JG251A Switches
Note 5	Supported only on the JG241A, JG252A, JG240A and JG253A Switches
Note 6	Each switch will only support 1 JD183A Power supply.

Options for the HPN 5500 Power Supplies

HPE X290 1000 A JD5 2m RPS Cable	JD187A
HPE X290 1000 A JD5 NonPoE 2m RPS Cable	JD188A
HPE X290 1000 B JD5 2m RPS Cable	JD189A
HPE X290 500/800 1m RPS Cable	JD190A

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

Opacity Shield Kit

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

HP 5500/5120 Gig-T El Opacity Shield KitSupported on JG250A, JG251A	JG557A See Configuration NOTE:1
HP 5500/5120 Gig-T PoE EI Opacity Shield KitSupported on JG252A, JG253A	JG559A See Configuration NOTE:1
HP 5500-24G-SFP EI Opacity Shield KitSupported on JG249A	JG558A See Configuration

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NOTE:1

QuickSpecs

HPE 5500 EI Switch Series

Configuration

Configuration Rules:

Note 1

If selected with a CTO Switch Solution, Quantity 1 of JG585A#B01 must also be ordered.

Tamper Evidence Labels

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

HPE 12mm x 60mm Tamper Evidence (30) Labels

• Supported on JG557A, JG559A or JG558A

JG585A See Configuration **NOTE:1**

Configuration Rules:

Note 1 If selected with a CTO Switch Solution, Quantity 1 of JG557A#B01, JG558A#B01 or JG559A#B01 must also be ordered.

Remarks: Each JG557A, JG559A or JG558A would use 1 of JG585A.

QuickSpecs

HPE 5500 EI Switch Series

Technical Specifications

HP 5500-24G El Switch (JD377A)

I/O ports and slots		/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE- II; 1000BASE-T: full only
	4 dual-personality ports; a	uto-sensing 10/100/1000Base-T or SFP
	2 port expansion module	slots
	Supports a maximum of 2	4 autosensing 10/100/1000 ports
Additional ports and slot	s 1 RJ-45 serial console por	†
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; Packet b	ouffer size: 2 MB, 32 MB flash
Mounting	Mounts in an EIA standard	d 19-in. telco rack or equipment cabinet (hardware included)
Performance	1000 Mb Latency	< 3.2 μs
	10 Gbps Latency	< 2.6 μs
	Throughput	up to 107.2 million pps
	Routing/Switching capacity	144 Gbps
	Routing table size	12000 entries (IPv4)
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	10% to 90%, noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	5% to 95%, noncondensing
	Acoustic	Low-speed fan: 42.6 dB, High-speed fan: 49.7 dB; ISO 7779
Electrical characteristics	Frequency	50/60 Hz
	Maximum heat	375 BTU/hr (395.63 kJ/hr)
	dissipation	
	Voltage	100 - 240 VAC, rated
	Maximum power rating	110 W
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety		L Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products- /CSA-C22.2 No. 60950-1; EN 60950-1/A11; FDA 21 CFR Subchapter J;
Emissions	C63.4 2003; ETSI EN 300 61000-4-2; EN 61000-4-	Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN -3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 900-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR
Management	IMC - Intelligent Managen 802.3 Ethernet MIB	nent Center; command-line interface; Web browser; SNMP Manager; IEEE

Technical Specificat	ions		
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office		
HP 5500-48G El Switch (J	ID375A)		
I/O ports and slots	5	/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE- II; 1000BASE-T: full only	
	4 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP		
	2 port expansion module		
	••	8 autosensing 10/100/1000 ports	
-	s 1 RJ-45 serial console por		
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		ouffer size: 4 MB, 32 MB flash	
Mounting		d 19-in. telco rack or equipment cabinet (hardware included)	
Performance	1000 Mb Latency	< 3.2 µs	
	10 Gbps Latency	< 2.6 µs	
	Throughput	up to 142.9 million pps	
	Routing/Switching capacity	192 Gbps	
	Routing table size	12000 entries (IPv4)	
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)	
	Operating relative humidity	10% to 90%, noncondensing	
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
	Nonoperating/Storage relative humidity	5% to 95%, noncondensing	
	Acoustic	Low-speed fan: 41.3 dB, High-speed fan: 50.1 dB; ISO 7779	
Electrical characteristics	Frequency	50/60 Hz	
	Maximum heat dissipation	528 BTU/hr (557.04 kJ/hr)	
	Voltage	100 - 240 VAC, rated	
	Maximum power rating	155 W	
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products- Part 2; IEC 60950-1; 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		

QuickSpecs		HPE 5500 El Switch Serie		
Technical Specificat	tions			
	802.3 Ethernet MIB			
Services	Refer to the Hewlett Packard Enterprise website at <u>http://www.hpe.com/networking/services</u> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office			
HP 5500-24G-SFP EI Swi	tch (JD374A)			
I/O ports and slots	24 fixed Gigabit Ethernet	SFP ports		
	8 dual-personality ports; a	8 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP		
	2 port expansion module s	slots		
Additional ports and slots	s 1 RJ-45 serial console por	rt in the second s		
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; Packet b	ouffer size: 2 MB, 32 MB flash		
Mounting	Mounts in an EIA standard	d 19-in. telco rack or equipment cabinet (hardware included)		
Performance	1000 Mb Latency	< 3.2 µs		
	10 Gbps Latency	< 2.6 µs		
	Throughput	up to 107.2 million pps		
	Routing/Switching capacity	144 Gbps		
	Routing table size	12000 entries (IPv4)		
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)		
	Operating relative humidity	10% to 90%, noncondensing		
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)		
	Nonoperating/Storage relative humidity	5% to 95%, noncondensing		
	Acoustic	Low-speed fan: 45.3 dB, High-speed fan: 50.4 dB; ISO 7779		
Electrical characteristics	Frequency	50/60 Hz		
	Maximum heat dissipation	392 BTU/hr (413.56 kJ/hr)		
	Voltage	100 - 240 VAC, rated -48 to -60 VDC, rated (depending on power supply chosen)		
	Maximum power rating	115 W		
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.		
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products- Part 2; IEC 60950-1; 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		nent Center; command-line interface; Web browser; SNMP Manager; IEEE		
		Pare 22		

QuickSpecs

Technical Specifications

HPE 5500 EI Switch Series

	802.3 Ethernet MIB
Notes	1 power supply included
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office

HP 5500-48G-PoE+ El Switch with 2 Interface Slots (JG240A)

I/O ports and slots	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 slots			
	Supports a maximum of 48 autosensing 10/100/1000 ports			
Additional ports and slots				
Physical characteristics	Dimensions			
	Weight	14.33 lb. (6.5 kg)		
Memory and processor	256 MB SDRAM; Packet buffer size: 4 MB, 32 MB flash			
Mounting	Mounts in an EIA standard	19-in. telco rack or equipment cabinet (hardware included)		
Performance	1000 Mb Latency	< 3.2 µs		
	10 Gbps Latency	< 2.6 µs		
	Throughput	up to 142.9 million pps		
	Routing/Switching capacity	192 Gbps		
	Routing table size	12000 entries (IPv4)		
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)		
	Operating relative humidity	10% to 90%, noncondensing		
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)		
	Nonoperating/Storage relative humidity	5% to 95%, noncondensing		
	Acoustic	Low-speed fan: 49.5 dB, High-speed fan: 54.1 dB; ISO 7779		
Electrical characteristics	Frequency	50/60 Hz		
	Maximum heat dissipation	2255 BTU/hr (2379.02 kJ/hr). Max heat dissipation for AC is 2255 BTU/hr and 3173 BTU/hr for DC.		
	Voltage	100 - 240 VAC, rated		
	Maximum power rating	661 W		
	PoE power	370 W PoE+		
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies and may be supplemented with the use of an external power supply (EPS). With AC input, the maximum power consumption is 661 W; PoE is 370 W. With DC input, the maximum power consumption is 930 W; PoE is 740 W.		

Technical Specificat	ions			
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	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office			
HP 5500-24G-PoE+ El Sw	ritch with 2 Interface Slots	(JG241A)		
I/O ports and slots	100BASE-TX, IEEE 802.3 Duplex: 10BASE-T/100BASE-TX:	/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; half or full; 1000BASE-T: full only auto-sensing 10/100/1000Base-T or SFP slots		
		4 autosensing 10/100/1000 ports		
Additional ports and slots	1 RJ-45 serial console por	rt		
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; Packet buffer size: 2 MB, 32 MB flash			
Mounting	Mounts in an EIA standard 19-in. telco rack or equipment cabinet (hardware included)			
Performance	1000 Mb Latency	< 3.2 µs		
	10 Gbps Latency	< 2.6 µs		
	Throughput	up to 107.2 million pps		
	Routing/Switching capacity	144 Gbps		
	Routing table size	12000 entries (IPv4)		
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)		
	Operating relative humidity	10% to 90%, noncondensing		
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)		
	Nonoperating/Storage relative humidity	5% to 95%, noncondensing		
	Acoustic	Low-speed fan: 48.1 dB, High-speed fan: 51.1 dB; ISO 7779		
Electrical characteristics	Frequency	50/60 Hz		
	Maximum heat dissipation	2016 BTU/hr (2126.88 kJ/hr). Max heat dissipation for AC is 2016 BTU/hr and 1678 BTU/hr for DC.		
	Voltage	100 - 240 VAC, rated		
	Maximum power rating	591 W		
	PoE power	370 W		

theore with fu all mod power and ma (EPS). With A	n power rating and maximum heat dissipation are the worst-case al maximum numbers provided for planning the infrastructure loaded PoE (if equipped), 100% traffic, all ports plugged in, and es populated. PoE power is the power supplied by the internal pply. It is dependent on the type and quantity of power supplies be supplemented with the use of an external power supply nput, the maximum power consumption is 591 W; PoE is 370 W nput, the maximum power consumption is 492 W; PoE is 370 W
	_aser Products-Part 1; EN 60825-2 Safety of Laser Products- 2 No. 60950-1; EN 60950-1/A11; FDA 21 CFR Subchapter J;
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 (CF 47, Part 15) Class A	
ligent Management Cen ernet MIB	; command-line interface; Web browser; SNMP Manager; IEEE
the service-level descrip	ise website at <u>http://www.hpe.com/networking/services</u> for ns and product numbers. For details about services and ontact your local Hewlett Packard Enterprise sales office
NTPv3 (Community based SNM MIB for TCP6 MIB for UDP6 (SNMPv3 Applications) (Coexistence between SN (Mon (Management Framewor (SNMP Protocol Operation (SNMP Transport Mapping) telnet management infiguration Files and RMON RFC support Iv2 Secure Shell otocols ad Q-in-Q D MAC Bridges p Priority Q (GVRP)	RFC 2475 IPv6 DiffServ Architecture RFC 2710 Multicast Listener Discovery (MLD) for IPv6 RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers tocol (IRDP) RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations 2) (Ping only) RFC 2925 Remote Operations MIB (Ping only) RFC 3056 Connection of IPv6 Domains via IPv4 Clouds IP V1, V2, RFC 3162 RADIUS and IPv6 RFC 3306 Unicast-Prefix-based IPv6 Multicast Addresses RFC 3307 IPv6 Multicast Address Allocation 5 v2) RFC 3484 Default Address Selection for IPv6 RFC 3493 Basic Socket Interface Extensions for IPv6 RFC 3513 IPv6 Addressing Architecture RFC 3587 IPv6 Global Unicast Address Format RFC 3596 DNS Extension for IPv6 RFC 3810 MLDv2 for IPv6 RFC 3810 MLDv2 for IPv6 RFC 4113 MIB for UDP RFC 4443 ICMPv6
	telnet management nfiguration Files nd RMON RFC support Iv2 Secure Shell otocols ad Q-in-Q D MAC Bridges p Priority Q (GVRP) w Rapid Reconfiguration of ab 1000BASE-T

QuickSpecs

Technical Specifications

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 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 RFC 2578 SMIv2

RFC 1493 Bridge MIB 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 2665 Ethernet-Like-MIB RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions RFC 2737 Entity MIB (Version 2) RFC 2787 VRRP MIB RFC 2819 RMON MIB RFC 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 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

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HPE 5500 El Switch Series

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Technical Specifications

Interface (API) for IPv6 RFC 3587 IPv6 Global Unicast Address Format RFC 3596 DNS Extensions to Support IP Version 6 (history), 3 (alarm) and 9 (events) 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 RFC 2460 IPv6 Specification RFC 2461 IPv6 Neighbor Discovery RFC 2462 IPv6 Stateless Address Autoconfiguration RFC 2463 ICMPv6

RFC 2581 TCP6 RFC 2819 Four groups of RMON: 1 (statistics), 2 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) RFC 4594 Configuration Guidelines for DiffServ Service Classes

Security

IEEE 802.1X Port Based Network Access Control RFC 1492 TACACS+ RFC 1918 Address Allocation for Private Internets **RFC 2865 RADIUS Authentication RFC 2866 RADIUS Accounting** Access Control Lists (ACLs) MAC Authentication Port Security SSHv2 Secure Shell

HPE 5500 El Switch Series

HPE 5500 El Switch Series

QuickSpecs

Accessories

HPE 5500 EI Switch Series accessories

Modules

HPE 5500 2-port 10GbE XFP Module HPE 5500 2-port 10GbE Local Connect Module HPE 5500 1-port 10GbE XFP Module HPE FlexNetwork 5500/4800 2-port GbE SFP Module HPE FlexNetwork 5500/5120 2-port 10GbE SFP+ Module HPE FlexNetwork 5500/5120 2-port 10GBASE-T Module HPE FlexNetwork 5130/5510 10GBASE-T 2p Module	JD359B JD360B JD361B JD367A JD368B JG535A JH156A
Transceivers	
HPE X115 100M SFP LC FX Transceiver	JD102B
HPE X110 100M SFP LC LX Transceiver	JD120B
HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
HPE X125 1G SFP LC LH70 Transceiver	JD063B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LRM Transceiver	JD093B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE X130 10G SFP+ LC ER 40km Transceiver	JG234A
HPE X130 10G XFP LC LR Single Mode 10km 1310nm Transceiver	JD108B
HPE X130 10G XFP LC SR Transceiver	JD117B
HPE X135 10G XFP LC ER Transceiver	JD121A
HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
Cables	

Cables

HPE X230 Local Connect 100cm CX4 Cable	JD364B
HPE X230 CX4 to CX4 3m Cable	JD365A
HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A
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QuickSpecs	HPE 5500 El Switch Series
Accessories	
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A
HPE X230 Local Connect 50cm CX4 Cable	JD363B
Power Supply	
HPE RPS 800 Redundant Power Supply ¹	JD183A
HPE RPS1600 Redundant Power System ¹	JG136A
HPE RPS1600 1600W AC Power Supply ¹	JG137A
Power Cords and Adapters	
HPE X290 1000 A JD5 2m RPS Cable	JD187A
HPE X290 1000 A JD5 NonPoE 2m RPS Cable	JD188A
HPE X290 1000 B JD5 2m RPS Cable	JD189A
HPE X290 500/800 1m RPS Cable	JD190A
HP 5500-24G-SFP El Switch (JD374A)	
HPE 5500 150WAC Power Supply ¹	JD362A
HPE FlexNetwork 5500 150WDC Power Supply ¹	JD366A
HPE X361 150W 100-240VAC to 12VDC Power Supply	JD362B
HPE X361 150W 48-60VDC to 12VDC Power Supply	JD366B
¹ Products covered by 1 year warranty. See details at <u>http://www.hpe.com/networking/warrantyqu</u>	ickref 1

QuickSpecs

HPE 5500 EI Switch Series

Accessory Product Details

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

HP 5500 2-port 10GbE	Ports	2 XFP 10-GbE ports; Duplex: full only			
XFP Module (JD359B)	Services	Refer to the Hewlett Packard Enterprise website at			
			tworking/services for details on the service-leve		
			numbers. For details about services and response contact your local Hewlett Packard Enterprise		
		sales office			
HP 5500 1-port 10GbE	Ports	1 XFP 10-GbE port; Duplex: full only			
XFP Module (JD361B)	Services	Refer to the Hewlett Pack	ard Enterprise website at		
		http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office			
HPE FlexNetwork	Ports	2 SFP 1000 Mbps ports			
5500/4800 2-port GbE	Services	Refer to the Hewlett Packard Enterprise website at			
SFP Module (JD367A)			tworking/services for details on the service-leve		
			numbers. For details about services and response		
		times in your area, please contact your local Hewlett Packard Enterp sales office			
HPE X125 1G SFP LC	Ports	1 LC 1000Base-LH port (no IEEE standard exists for 1550 nm optics)		
	Connectivity	Connector type	LC		
Transceiver (JD061A)		Wavelength	1310 nm		
A small form-factor pluggable SFP Gigabit	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)		
LH40 transceiver that		Full configuration weight	0.04 lb. (0.02 kg)		
provides a full duplex	Electrical characteristics	Power consumption typic			
Gigabit solution up to		Power consumption maximum	1.0 W		
40km on a single-mode fiber.	Cabling	Cable type:			
ilder.	Cabing	<i>.</i> .	omplying with ITU-T G.652;		
		Maximum distance:			
		• 40km distance			
		Fiber type	Single Mode		
	Services	Refer to the Hewlett Pack			
			tworking/services for details on the service-leven numbers. For details about services and response		
			contact your local Hewlett Packard Enterprise		
		sales office			
HPE X120 1G SFP LC	Ports	1 LC 1000BASE-LH port	(no IEEE standard exists for 1550 nm optics)		
LH40 1550nm	Connectivity	Connector type	LC		
Transceiver (JD062A)		Wavelength	1550 nm		

QuickSpecs

Accessory Product Details

HPE 5500 EI Switch Series

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 cm)	
pluggable (SFP) Gigabit LH40 transceiver that provides a full-duplex Gigabit solution up to 40 km on a single mode fiber.		Full configuration weight Power consumption typica Power consumption maximum Cable type: Single-mode fiber optic, co	0.04 lb. (0.02 kg) 10.8 W 1.0 W	
		Maximum distance:		
	40km distance			
	Services	descriptions and product r	Single Mode and Enterprise website at working/services for details on the service-level numbers. For details about services and response contact your local Hewlett Packard Enterprise	
HPE X125 1G SFP LC	Ports	1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)	
LH70 Transceiver	Connectivity	Connector type	LC	
(JD063B)		Wavelength	1550 nm	
A small form-factor pluggable (SFP) Gigabit	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)	
LH70 transceiver that		Full configuration weight 0.04 lb. (0.02 kg)		
provides a full-duplex Gigabit solution up to	Electrical characteristics	Power consumption typical	0.8 W	
70km on a single-mode fiber.		Power consumption maximum	1.0 W	
	Cabling	Cable type: Single-mode fiber optic, co	mplying with ITU-T G.652;	
		Maximum distance:		
		• 70km	Cingle Mode	
Services Refer to the Hewlett Packard Enterpris http://www.hpe.com/networking/se descriptions and product numbers. For		Single Mode and Enterprise website at working/services for details on the service-level numbers. For details about services and response contact your local Hewlett Packard Enterprise		
HPE X120 1G SFP LC BX 10-U Transceiver	Ports	1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-U); Duplex: full only		
(JD098B)	Connectivity	Connector type	LC	
A small form-factor	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)	
pluggable (SFP) Gigabit LX-BX10-U transceiver		Full configuration weight	0.04 lb. (0.02 kg)	
that provides a full duplex Gigabit solution up to	Electrical characteristics	Power consumption typical	0.8 W	
10km on a single mode		Power consumption	1.0 W	

QuickSpecs

HPE 5500 EI Switch Series

Accessory Product	Details		
cable.	cable. maximum		
	Cabling	Maximum distance: • 10km	
		Fiber type	Single Mode
	Notes	TX 1310nm RX 1490nm	
	Services	Refer to the Hewlett Pack	•
		http://www.hpe.com/networking/services for details on the service-lev descriptions and product numbers. For details about services and respons times in your area, please contact your local Hewlett Packard Enterprise sales office	
HPE X120 1G SFP LC BX 10-D Transceiver	(Ports	1 LC 1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-D); Duplex: full only	
(JD099B)	Connectivity	Connector type	LC
A small form-factor	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)
pluggable (SFP) Gigabit LX-BX10-D transceiver		Full configuration weigh	t 0.04 lb. (0.02 kg)
that provides a full duplex Gigabit solution up to	Electrical characteristics	Power consumption typical	0.8 W
10km on a single mode cable.		Power consumption maximum	1.0 W
	Cabling	Maximum distance: • Up to 10km	
		Fiber type	Single Mode
	Notes	TX 1490nm RX 1310nm	
	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office	
HPE X120 1G SFP LC SX	Ports	1 LC 1000BASE-SX port	
Transceiver (JD118B)	Connectivity	Connector type	LC
		Wavelength	850 nm
A small form-factor pluggable (SFP) Gigabit SX transceiver that provides a full-duplex Gigabit solution up to 550m on a Multimode fiber.	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)
		Full configuration weigh	t 0.04 lb. (0.02 kg)
	Electrical characteristics	Power consumption typical	0.8 W
		Power consumption maximum	1.0 W
	Cabling	Maximum distance: • FDDI Grade distance = 220m • OM1 = 275m • OM2 = 500m • OM3 = Not Specified by standard	
		Cable length	up to 550m
		Fiber type	Multi Mode
	Services	Refer to the Hewlett Packa	ard Enterprise website at

Accessory P	roduct	Details				
,				descriptions and	product n	working/services for details on the service-leve numbers. For details about services and response contact your local Hewlett Packard Enterprise
HPE X120 1G SI	FP LC LX	Ports		1 SFP 1000BASE	-LX port	(IEEE 802.3z Type 1000BASE-LX)
Transceiver (JD119B) Connect		Connect	ivity	Connector type		LC
A small form-factor pluggable (SFP) Gigabig LX transceiver that				Wavelength		1300 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)
provides a full du				Full configuratio	n weight	t 0.04 lb. (0.02 kg)
Gigabit solution up to 550m on MMF or 10Km		Electrical characteristics		Power consumpt typical	tion	0.8 W
on SMF				Power consumpt maximum	tion	1.0 W
Cablin		Cabling		Cable type: Either single mod	e or multi	imode;
				Maximum distance • 550m for Multir • 10km for Single	node	
				Fiber type		Both
		Services		http://www.hpe descriptions and	.com/net product n	ard Enterprise website at working/services for details on the service-leve numbers. For details about services and response contact your local Hewlett Packard Enterprise
HPE X120 1G	Ports		1 RJ-45 1000B	ASE-T port (IEEE 8	302.3ab 1	Type 1000BASE-T)
SFP RJ45 T	Connect	ivity	Connector type		RJ-45	
Transceiver	Physical	-	Dimensions		2.71(c	d) x 0.54(w) x 0.55(h) in. (6.88 x 1.37 x 1.4 cm)
(JD089B)	characte	eristics	Full configurati	ion weight	0.07 lk	b. (0.03 kg)
A small form	Electrica	al	Power consum	ption typical	0.8 W	
factor pluggable	characte	eristics	Power consum	ption maximum	1.0 W	
(SFP) Gigabit 1000Base-T transceiver that provides a full duplex Gigabit	Cabling			5 /		ommended), 100 Ù differential 4-pair unshielded (STP) balanced, complying with IEEE 802.3ab
solution up to 100m on a Cat- 5+ cable.			Maximum distar • 100m	nce:		
	Services	ervices Refer to the He http://www.hp product numbe			g/service t services	25 for details on the service-level descriptions an 5 and response times in your area, please contac

HPE LC to LC Multi-Cabling mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable

$\begin{array}{l} \mbox{Cable type:} \\ \mbox{50/125 } \mu\mbox{m} \mbox{ (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for \end{array}$

Accessory Product [Details	
AJ833A)		distances of up to 300 m
		Maximum distance : 10Gbps Transfer Rate (Ethernet): 300m
	Notes	Cable Specs: Tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.
		 Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um Optical glass: Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical glass: Bandwidth: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber and designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg
	Services	Refer to the Hewlett Packard Enterprise website at <u>http://www.hpe.com/networking/services</u> for details on the service-leve descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office
HPE LC to LC Multi-	Cabling	Cable type:
node OM3 2-Fiber 1.0m L-Pack Fiber Optic Cable (AJ834A)		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: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600
		meters @850/1300nm for Gigabit Ethernet compliant links.

QuickSpecs		HPE 5500 El Switch Ser
Accessory Product I	Details	
		 multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg
	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-leve descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office
HPE LC to LC Multi- mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable (AJ835A)	Cabling	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:
	Notes	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	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-leve descriptions and product numbers. For details about services and response

QuickSpecs		HPE 5500 EI Switch Ser		
Accessory Product	Details			
		times in your area, please contact your local Hewlett Packard Enterprise sales office		
HPE LC to LC Multi- mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable (AJ836A)	Cabling	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: This specification defines the detail requirements for a tight buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.		
		 Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg 		
	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-leve descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office		
HPE LC to LC Multi- mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable (AJ837A)	Cabling	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;		
	Notes	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 ±		

QuickSpecs		HPE 5500 EI Switch Series
Accessory Produc	t Details	
		 2.0um Coating diameter: 245 ± 10um Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg
	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office
HPE LC to LC Multi- mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable (AJ838A)	Cabling	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: 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 @

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Accessory Product	Detalls	
		 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg
	Services	Refer to the Hewlett Packard Enterprise website at <u>http://www.hpe.com/networking/services</u> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office
HPE LC to LC Multi- mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable (AJ839A)	Cabling	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:
	Notes	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	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-leve descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber Im 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)

QuickSpecs		HPE 5500 El Switch Seri
Accessory Product D	Details	
	Services	 Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic Boot Color: White Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudina white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45 Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-level
		descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office
HPE 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: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudina white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths > 30m
		 Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45
	Services	Refer to the Hewlett Packard Enterprise website at <u>http://www.hpe.com/networking/services</u> for details on the service-leve descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office
HPE 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: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudina white stripe that runs the entire length of the cable.
		Page

QuickSpecs		HPE 5500 El Switch Ser
Accessory Product	Details	
		 Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths > 30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45
	Services	Refer to the Hewlett Packard Enterprise website at <u>http://www.hpe.com/networking/services</u> for details on the service-leve descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable (QK735A)	Notes	Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.
		 Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um Bandwidth: 3000 MHz-km @ 850nm (Laser)
		 Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic Boot Color: White Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudina white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths > 30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45
	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the service-leve descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable (QK736A)	Notes	Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.
		 Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um Bandwidth: 3000 MHz-km @ 850nm (Laser) Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic Boot Color: White Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudina white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths > 30m
	Services	 Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45 Refer to the Hewlett Packard Enterprise website at
		http://www.hpe.com/networking/services for details on the service-leve descriptions and product numbers. For details about services and response Page 4

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		times in your area, please c sales office	ontact your local Hewlett Packard Enterprise
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A)	Notes		, "bendable" fiber optic multimode OM3+ nd Ethernet assembly with LC duplex connectors
		diameter: 245 ± 10um • Bandwidth: 3000 MHz-kr • Jacket Color: Blue	um, Cladding diameter: 125um ±2um; Coating n @ 850nm (Laser) de – Low Smoke Zero Halogen (LSZH)
		 Boot Color: White Outer Jacket Print: HPE P Type OFNR (UL), LSZH, cL white stripe that runs the e Insertion Loss: Less than added for lengths >30m Maximum Cable Attenuat 	0.5dB @ 850nm with LED source, 0.003dB/m ion: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm
	Services	descriptions and product n	
		8 redundant power supply ports Restrictions: two -56V/25A DC(PoE); six -56V/8A DC(non-PoE)	
	Ports		
Redundant Power	Ports Physical characteristics		
Redundant Power		Restrictions: two -56V/25A	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x
Redundant Power		Restrictions: two -56V/25A Dimensions	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) 14.11 lb. (6.4 kg)
Redundant Power		Restrictions: two -56V/25A Dimensions Weight	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) 14.11 lb. (6.4 kg)
Redundant Power	Physical characteristics	Restrictions: two -56V/25A Dimensions Weight Full configuration weight	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) 14.11 lb. (6.4 kg) 16.75 lb. (7.6 kg)
Redundant Power	Physical characteristics	Restrictions: two -56V/25A Dimensions Weight Full configuration weight Operating temperature Operating relative	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) 14.11 lb. (6.4 kg) 16.75 lb. (7.6 kg) 14°F to 122°F (-10°C to 50°C)
Redundant Power	Physical characteristics	Restrictions: two -56V/25A Dimensions Weight Full configuration weight Operating temperature Operating relative humidity Nonoperating/Storage	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) 14.11 lb. (6.4 kg) 16.75 lb. (7.6 kg) 14°F to 122°F (-10°C to 50°C) 5% to 95%
Redundant Power	Physical characteristics	Restrictions: two -56V/25A Dimensions Weight Full configuration weight Operating temperature Operating relative humidity Nonoperating/Storage temperature Nonoperating/Storage	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) 14.11 lb. (6.4 kg) 16.75 lb. (7.6 kg) 14°F to 122°F (-10°C to 50°C) 5% to 95% -40°F to 158°F (-40°C to 70°C)
Redundant Power	Physical characteristics	Restrictions: two -56V/25A Dimensions Weight Full configuration weight Operating temperature Operating relative humidity Nonoperating/Storage temperature Nonoperating/Storage relative humidity	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) 14.11 lb. (6.4 kg) 16.75 lb. (7.6 kg) 14°F to 122°F (-10°C to 50°C) 5% to 95% -40°F to 158°F (-40°C to 70°C) 5% to 95%
Redundant Power	Physical characteristics	Restrictions: two -56V/25A Dimensions Weight Full configuration weight Operating temperature Operating relative humidity Nonoperating/Storage temperature Nonoperating/Storage relative humidity Altitude Acoustic	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) 14.11 lb. (6.4 kg) 16.75 lb. (7.6 kg) 14°F to 122°F (-10°C to 50°C) 5% to 95% -40°F to 158°F (-40°C to 70°C) 5% to 95% up to 13,123 ft. (4 km)
Redundant Power	Physical characteristics Environment	Restrictions: two -56V/25A Dimensions Weight Full configuration weight Operating temperature Operating relative humidity Nonoperating/Storage temperature Nonoperating/Storage relative humidity Altitude Acoustic	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) 14.11 lb. (6.4 kg) 16.75 lb. (7.6 kg) 14°F to 122°F (-10°C to 50°C) 5% to 95% -40°F to 158°F (-40°C to 70°C) 5% to 95% up to 13,123 ft. (4 km) Pressure: 53 dB; ISO 7779, ISO 9296
Redundant Power	Physical characteristics Environment	Restrictions: two -56V/25A Dimensions Weight Full configuration weight Operating temperature Operating relative humidity Nonoperating/Storage temperature Nonoperating/Storage relative humidity Altitude Acoustic Voltage	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) 14.11 lb. (6.4 kg) 16.75 lb. (7.6 kg) 14°F to 122°F (-10°C to 50°C) 5% to 95% -40°F to 158°F (-40°C to 70°C) 5% to 95% up to 13,123 ft. (4 km) Pressure: 53 dB; ISO 7779, ISO 9296 100-120/200-240 VAC
Redundant Power	Physical characteristics Environment	Restrictions: two -56V/25A Dimensions Weight Full configuration weight Operating temperature Operating relative humidity Nonoperating/Storage temperature Nonoperating/Storage relative humidity Altitude Acoustic Voltage Current Idle power Maximum power rating	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) 14.11 lb. (6.4 kg) 16.75 lb. (7.6 kg) 14°F to 122°F (-10°C to 50°C) 5% to 95% -40°F to 158°F (-40°C to 70°C) 5% to 95% up to 13,123 ft. (4 km) Pressure: 53 dB; ISO 7779, ISO 9296 100-120/200-240 VAC 30/60 A
Redundant Power	Physical characteristics Environment	Restrictions: two -56V/25A Dimensions Weight Full configuration weight Operating temperature Operating relative humidity Nonoperating/Storage temperature Nonoperating/Storage relative humidity Altitude Acoustic Voltage Current Idle power	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) 14.11 lb. (6.4 kg) 16.75 lb. (7.6 kg) 14°F to 122°F (-10°C to 50°C) 5% to 95% -40°F to 158°F (-40°C to 70°C) 5% to 95% up to 13,123 ft. (4 km) Pressure: 53 dB; ISO 7779, ISO 9296 100-120/200-240 VAC 30/60 A 38 W 3550 W 3200 W
Redundant Power	Physical characteristics Environment	Restrictions: two -56V/25A Dimensions Weight Full configuration weight Operating temperature Operating relative humidity Nonoperating/Storage temperature Nonoperating/Storage relative humidity Altitude Acoustic Voltage Current Idle power Maximum power rating RPS power PoE power	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) 14.11 lb. (6.4 kg) 16.75 lb. (7.6 kg) 14°F to 122°F (-10°C to 50°C) 5% to 95% -40°F to 158°F (-40°C to 70°C) 5% to 95% up to 13,123 ft. (4 km) Pressure: 53 dB; ISO 7779, ISO 9296 100-120/200-240 VAC 30/60 A 38 W 3550 W 3200 W 2800 W
HPE RPS1600 Redundant Power System (JG136A)	Physical characteristics Environment	Restrictions: two -56V/25A Dimensions Weight Full configuration weight Operating temperature Operating relative humidity Nonoperating/Storage temperature Nonoperating/Storage relative humidity Altitude Acoustic Voltage Current Idle power Maximum power rating RPS power	DC(PoE); six -56V/8A DC(non-PoE) 15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm) 14.11 lb. (6.4 kg) 16.75 lb. (7.6 kg) 14°F to 122°F (-10°C to 50°C) 5% to 95% -40°F to 158°F (-40°C to 70°C) 5% to 95% up to 13,123 ft. (4 km) Pressure: 53 dB; ISO 7779, ISO 9296 100-120/200-240 VAC 30/60 A 38 W 3550 W 3200 W

QuickSpecs

HPE 5500 EI Switch Series

Accessory Product Details

		Frequency	50/60 Hz	
		Notes	Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. 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, Sul EU RoHS Compliant; EN 60950-1/A11; C-Tick; VCCI Class A; ROHS Compliance; EN 300386		
	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services for details on the services and r descriptions and product numbers. For details about services and r times in your area, please contact your local Hewlett Packard Enter sales office		
HPE RPS1600 1600W	Physical characteristics	Dimensions	8.19(d) x 4.96(w) x 1.63(h) in. (20.8 x 12.6 x 4.15 cm)	
AC Power Supply (JG137A)		Weight	3.02 lb. (1.37 kg)	
	Environment	Operating temperature	14°F to 122°F (-10°C to 50°C)	
	Environment	Operating relative humidity	5% to 95%	
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
		Nonoperating/Storage relative humidity	5% to 95%	
	Electrical characteristics	Voltage	100-120/200-240 VAC	
		Current	15/30 A	
		Maximum power rating	1600 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.	
	Services	descriptions and product r	ard Enterprise website at tworking/services for details on the service-level numbers. For details about services and response contact your local Hewlett Packard Enterprise	

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Summary of Changes

Date	Version History	Action	Description of Change:
03-Oct-2016	From Version 35 to	Added	SKUs added: JD362B, JD366B
	36	Changed	Technical Specifications updated
01-Aug-2016	From Version 34 to 35	Changed	Product descriptions updated.
			Configuration section and Accessories were updated
01-Dec-2015	From Version 33 to 34	Changed	Overview and Technical Specifications updated
01-Dec-2014	From Version 32 to 33	Changed	Warranty and support updated
03-Jul-2014	From Version 31 to 32	Changed	Configuration menu updated.
10-Jun-2014	From Version 30 to 31	Added	Added Opacity Shield Kit and Tamper Evidence Labels to Configuration.
15-Apr-2014	From Version 29 to 30	Changed	Notes section for Modules was revised in Configuration.
19-Mar-2014	From Version 28 to 29	Changed	Transceivers and Cables were revised in Configuration.
25-Feb-2014	From Version 27 to 28	Changed	HP 5500-24G-SFP EI Switch was revised in Configuration.
16-Jan-2014	From Version 26 to 27	Changed	Features and benefits was revised.
17-Dec-2013	From Version 25 to 26	Changed	Modules were revised in Configuration.
09-Dec-2013	From Version 24 to 25	Changed	Notes for Modules were revised in Configuration.
08-Nov-2013	From Version 23 to 24	Changed	Switch Chassis, Box Level Integrated CTO Models, Rack Level Integrated Models, Modules, and Cables were revised.
09-Oct-2013	From Version 22 to 23	Removed	HP X110 100M SFP LC FX Dual Mode Transceiver and HP X110 SFP LC LX10 Transceiver were removed.
30-Sep-2013	From Version 21 to 22	Changed	Configuration was revised.
			Features and Benefits was revised.
			Product overview was revised.
30-Sep-2013	From Version 21 to 22	Changed	Configuration was revised.
			Features and Benefits was revised.
			Product overview was revised.
19-Aug-2013	From Version 20 to 21	Changed	Box Level Integration CTO Models was revised in Configuration
12-Jul-2013	From Version 19 to 20	Changed	Acoustic was added to Technical Specifications
	-		Models were removed throughout
02-Jul-2013	From Version 18 to 19	Added	Added new skus in the Modules section of Configuration.
27-Jun-2013	From Version 17 to 18	Changed	Standards and protocols was revised
21-Jun-2013	From Version 16 to 17	Changed	Security in Features and Benefits was revised

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Summary of Changes

			Standards and protocols was revised in Technical Specifications
10-Jun-2013	From Version 15 to 16	Changed	Updated the notes section for CTO Switch Chassis in Configuration.
27-May-2013	From Version 14 to 15	Changed	Updated the Configuration Information.
22-May-2013	From Version 13 to 14	Changed	Updated the Configuration Information.
20-May-2013	From Version 12 to 13	Changed	Minor corrections were made to the Configuration section.
13-May-2013	From Version 10 to 12	Added	Added the Configuration Section.
14-May-2012	From Version 9 to 10	Changed	Features and Benefits, Accessories, and the weight and dimensions for each spec were revised.
20-Apr-2012	From Version 8 to 9	Changed	Features and benefits was revised.
15-Mar-2012	From Version 7 to 8	Changed	Features and benefits and Accessories were revised.
05-Mar-2012	From Version 6 to 7	Changed	The Introduction paragraph was revised.
26-Sep-2011	From Version 3 to 6	Changed	Model descriptions and Services were revised.
30-Aug-2011	From Version 2 to 3	Changed	Added two new models and revised Accessories and Features and Benefits.
16-Mar-2011	From Version 1 to 2	Changed	Accessories were revised.

QuickSpecs

HPE 5500 EI Switch Series

Summary of Changes



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