QuickSpecs

Overview

HPE 5500 SI Switch Series

Models

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

Key features

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

Product overview

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

Features and benefits

Quality of Service (QoS)

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

Management

- Friendly port names: allow assignment of descriptive names to ports
- Remote configuration and management: is available through a secure Web browser or a CLI
- Manager and operator privilege levels: enable read-only (operator) and read/write (manager) access on CLI and Web browser management interfaces
- **Command authorization**: leverages HWTACACS to link a custom list of CLI commands to an individual network administrator's login; also provides an audit trail
- Secure Web GUI: provides a secure, easy-to-use graphical interface for configuring the module via HTTPS

Hewlett Packard Enterprise

QuickSpecs

HPE 5500 SI Switch Series

Overview

- 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**: future-proofs networking, as the switch is capable of being managed whether the attached network is running IPv4 or IPv6; supports pingv6, tracertv6, Telnetv6, TFTPv6, DNSv6, syslogv6, FTPv6, SNMPv6, DHCPv6, and RADIUS

for IPv6

• **Troubleshooting**: ingress and egress port monitoring enable network problem solving; virtual cable tests provide visibility into cable problems

Connectivity

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

Performance

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

Resiliency and high availability

• Separate data and control paths: keeps control separated from services and keeps service processing isolated; increases

QuickSpecs

HPE 5500 SI Switch Series

Overview

security and performance

- External redundant power supply: provides high reliability
- Smart link: allows 50 ms failover between links
- Spanning Tree/MSTP and RSTP: provide redundant links while preventing network loops
- 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
- **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
- **IRF capability**: provides single IP address management for a resilient virtual switching fabric of up to four switches

Layer 2 switching

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

Layer 3 services

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

Layer 3 routing

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

Security

- Access control lists (ACLs): provide IP Layer 2 to Layer 4 traffic filtering; support global ACL, VLAN ACL, port ACL, and IPv6 ACL
- **IEEE 802.1X**: industry-standard method of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server
- MAC-based authentication: authenticates the client with the RADIUS server based on the client's MAC address

QuickSpecs

HPE 5500 SI Switch Series

Overview

- Identity-driven security and access control:
 - Per-user ACLs: permit or deny user access to specific network resources based on user identity and time of day, allowing multiple types of users on the same network to access specific network services without risking network security or providing unauthorized access to sensitive data
 - o Automatic VLAN assignment: automatically assigns users to the appropriate VLAN based on their identities
- Secure management access: securely encrypts all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3
- Secure FTP: allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file
- Guest VLAN: provides a browser-based environment to authenticated clients that is similar to IEEE 802.1X
- Endpoint Admission Defense (EAD): provides security policies to users accessing a network
- Port security: allows access only to specified MAC addresses, which can be learned or specified by the administrator
- Port isolation: secures and adds privacy, and prevents malicious attackers from obtaining user information
- **STP BPDU port protection**: blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
- STP Root Guard: protects the root bridge from malicious attacks or configuration mistakes
- **DHCP protection**: blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks
- Dynamic ARP protection: blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data
- IP Source Guard: helps prevent IP spoofing attacks
- **RADIUS/HWTACACS**: eases switch management security administration by using a password authentication server

Convergence

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

Device support

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

Additional information

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

QuickSpecs

HPE 5500 SI Switch Series

Overview

Warranty and support

• Limited Lifetime Warranty

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

• Software releases

to find software for your product, refer to <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

HPE 5500 SI Switch Series

Configuration

Build To Order:

Configuration Rules:

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 SI Switch 24 RJ-45 autosensing 10/100/1000 ports 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP min=0 \ max=4 SFP Transceivers 2 port expansion module slots 1U - Height 	JD369A See Configuration NOTE:1, 3
 HP 5500-24G-PoE+ SI Switch with 2 Interface Slots 24 RJ-45 autosensing 10/100/1000 ports 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP min=0 \ max=4 SFP Transceivers 2 port expansion module slots 1U - Height 	JG238A See Configuration NOTE:1, 3
 HP 5500-48G SI Switch 48 RJ-45 autosensing 10/100/1000 ports 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP min=0 \ max=4 SFP Transceivers 2 port expansion module slots 1U - Height 	JD370A See Configuration NOTE:1, 3
 HP 5500-48G-PoE+ SI Switch with 2 Interface Slots 48 RJ-45 autosensing 10/100/1000 ports 4 dual-personality ports; PoE auto-sensing 10/100/1000Base-T or SFP min=0 \ max=4 SFP Transceivers 2 port expansion module slots 1U - Height 	JG239A See Configuration NOTE:1, 3

Note 1	The following Transceivers install into this Switch:	
	HPE X115 100M SFP LC FX Transceiver	JD102B
	HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
	HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
	HPE X120 1G SFP LC SX Transceiver	JD118B

QuickSpecs

Configuration

HPE X120 1G SFP LC LX Transceiver	JD119B
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE X125 1G SFP LC LH70 Transceiver	JD063B

Note 3 Localization required. (See Localization Menu for list.)

Remarks: If any TAA product is selected please display the following note; 'This product is intended for Government sales.'

Internal Power Supplies

Power Supplies included

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

Modules

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

 HP 5500 2-port 10GbE XFP Module min=0 \ max=2 XFP Transceivers 	JD359B See Configuration NOTE:2
 HP 5500 2-port 10GbE Local Connect Module min=0 \ max=2 CX4 Cables 	JD360B See Configuration NOTE:4
 HP 5500 1-port 10GbE XFP Module min=0 \ max=1 XFP Transceivers 	JD361B See Configuration NOTE:2
 HPE FlexNetwork 5500/5120 2-port 10GbE SFP+ Module min=0 \ max=2 SFP+ Transceivers 	JD368B See Configuration NOTE:1
 HPE FlexNetwork 5500/4800 2-port GbE SFP Module min=0 \ max=2 SFP Transceivers 	JD367A See Configuration NOTE:3

QuickSpecs

Configuration

HPE FlexNetwork 5500/5120 2-port 10GBASE-T Module

• No Transceivers

Configuration Rules:

Note 1	The following Transceivers install into this Module:	
	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+ 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:	
	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
	HPE X130 10G XFP LC ZR Single Mode 80km 1550nm Transceiver	JD107A
Note 3	The following Transceivers install into this Module:	
	HPE X115 100M SFP LC FX Transceiver	JD102B
	HPE X125 1G SFP LC LH40 1310nm Transceiver	JD061A
	HPE X120 1G SFP LC LH40 1550nm Transceiver	JD062A
	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 X120 1G SFP LC BX 10-D Transceiver	JD099B
	HPE X120 1G SFP RJ45 T Transceiver	JD089B
	HPE X125 1G SFP LC LH70 Transceiver	JD063B
Note 4	The following Cables install into this Module:	
	HPE X230 Local Connect 50cm CX4 Cable	JD363B
	HPE X230 Local Connect 100cm CX4 Cable	JD364B
	HPE X230 CX4 to CX4 3m Cable	JD365A
	NOTE: Two JD365A - HPE X230 CX4 to CX4 3m Cable should be added by default if Module is	

Transceivers

SFP Transceivers

selected.

HPE 5500 SI Switch Series

JG535A

QuickSpecs

Configuration

HPE X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
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 X120 1G SFP RJ45 T Transceiver	JD089B
HPE X125 1G SFP LC LH70 Transceiver	JD063B

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
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

XFP Transceivers

HPE X130 10G XFP LC ZR Single Mode 80km 1550nm Transceiver	JD107A
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

Cables

Local Connect Cables

HPE X230 Local Connect 50cm CX4 Cable	JD363B
HPE X230 Local Connect 100cm CX4 Cable	JD364B
HPE X230 CX4 to CX4 3m Cable	JD365A

Multi-Mode Cables

HP LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A

QuickSpecs	HPE 5500 SI Switch Series
Configuration	
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A
Switch Enclosure Options	
External/Redundant Power Supplies	
HPE RPS 800 Redundant Power Supply	JD183A
• Height = 1U	See
• includes 1 x c13, 800w	Configuration
	NOTE: 2, 3, 5
HPE RPS1600 Redundant Power System	JG136A
• Height = 1U	See
 includes 1 x c13, 1600w and Power Supply port 	Configuration
	NOTE: 2, 4, 6
HPE RPS1600 1600W AC Power Supply	JG137A
Installs into JG136A only	See
	Configuration
	NOTE:1
Configuration Rules:	

Configuration Rules:

- Note 1 If this power supply is selected, The JG136A HPE A-RPS1600 Redundant Power System must be on order or onsite.
- Note 2 Localization required.
- Note 3 Supported only on the JD369A and JD370A Switches
- Note 4 Supported only on the JD369A, JD370A, JG238A and JG239A Switches.
- Note 5 Each switch will only support 1 JG136A and 1 JG137A Power supply systems.
- Note 6 Each switch will only support 1 JD183A Power supply.

Options for External/Redundant Power Supplies

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

QuickSpecs

HPE 5500 SI Switch Series

Technical Specifications

HP 5500-24G SI Switch (JD369A)

Ports	24 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only				
	4 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP				
	2 port expansion module slots				
	1 RJ-45 serial console port				
	Supports a maximum of 24 autosensing 10/100/1000 ports				
Physical characteristics	Dimensions 17.32(w) x 11.81(d) x 1.72(h) in (44 x 30 x 4.36 cm) (1U height)				
	Weight	9.92 lb (4.5 kg)			
Memory and processor	128 MB SDRAM; Packet bu	iffer size: 2 MB, 16 MB flash			
Mounting and enclosure	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 Gb/s			
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)			
	Operating relative humidity	10% to 90%, noncondensing			
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)			
	Nonoperating/Storage relative humidity	5% to 95%, noncondensing			
	Acoustic	ISO 7779			
Electrical characteristics	Maximum heat dissipation	273 BTU/hr (288.02 kJ/hr)			
	Voltage 100 - 240 VAC, rated				
	Maximum power rating	80 W			
	Frequency	50/60 Hz			
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.			
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11; FDA 21 CFR Subchapter J; ROHS Compliance				
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A				

Technical Specificat	tions			
recinical Specificat	nons			
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager			
Services	Refer to the Hewlett Packard Enterprise website at: http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.			
HP 5500-48G SI Switch (.	JD370A)			
Ports		100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or		
	4 dual-personality ports; a	uto-sensing 10/100/1000Base-T or SFP		
	2 port expansion module s	slots		
	1 RJ-45 serial console port			
	Supports a maximum of 44	8 autosensing 10/100/1000 ports		
Physical characteristics	Dimensions	17.32(w) x 11.81(d) x 1.72(h) in (44 x 30 x 4.36 cm) (1U height)		
	Weight	11.02 lb (5 kg)		
Memory and processor	128 MB SDRAM; Packet bu	uffer size: 4 MB, 16 MB flash		
Mounting and enclosure	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 Gb/s		
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)		
	Operating relative humidity	10% to 90%, noncondensing		
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)		
	Nonoperating/Storage relative humidity	5% to 95%, noncondensing		
	Acoustic	ISO 7779		
Electrical characteristics	Maximum heat dissipation	410 BTU/hr (432.55 kJ/hr)		
	Voltage	100 - 240 VAC, rated		
	Maximum power rating	120 W		
	Frequency	50/60 Hz		
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.		
Safety		Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; 22.2 No. 60950-1; EN 60950-1/A11; FDA 21 CFR Subchapter J; ROHS		
Emissions		Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4		

QuickSpecs

P				
Technical Specificat	tions			
	EN 61000-4-3; EN 61000-	I.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; 4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A		
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager			
Services	Refer to the Hewlett Packard Enterprise website at: http://www.hpe.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.			
HP 5500-24G-PoE+ SI Sv	vitch with 2 Interface Slot	s (JG238A)		
Ports	100BASE-TX, IEEE 802.3a	100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type b Type 1000BASE-T, IEEE 802.3at PoE+) Media Type: Auto-MDIX SE-TX: half or full; 1000BASE-T: full only		
	4 dual-personality ports; a	uto-sensing 10/100/1000Base-T or SFP		
	2 port expansion module s	slots		
	1 RJ-45 serial console port			
	Supports a maximum of 24	4 autosensing 10/100/1000 ports		
Physical characteristics	Dimensions	17.32(w) x 16.54(d) x 1.72(h) in (43.99 x 42.01 x 4.37 cm) (1U height)		
	Weight	13.21 lb (5.99 kg)		
Memory and processor	128 MB SDRAM; Packet bu	uffer size: 2 MB, 16 MB flash		
Mounting and enclosure	Mounts in an EIA standarc	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 Gb/s		
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)		
	Operating relative humidity	10% to 90%, noncondensing		
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)		
	Nonoperating/Storage relative humidity	5% to 95%, noncondensing		
	Acoustic	ISO 7779		
Electrical characteristics	Maximum heat dissipation	290 BTU/hr (305.95 kJ/hr)		
	Voltage	100 - 240 VAC, rated		
	Maximum power rating	455 W		
	PoE power	370 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. PoE power is the power supplied by the internal power		

Technical Specifications

Safety	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). UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11; FDA 21 CFR Subchapter J; ROHS Compliance
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager
Services	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 5500-48G-PoE+ SI Switch with 2 Interface Slots (JG239A)

Ports	48 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+) Media Type: Auto-MDIX Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only			
	. ,.	uto-sensing 10/100/1000Base-T or SFP		
	2 port expansion module s	lots		
	1 RJ-45 serial console port			
		3 autosensing 10/100/1000 ports		
Physical characteristics	Dimensions	17.32(w) x 16.54(d) x 1.72(h) in (43.99 x 42.01 x 4.37 cm) (1U height)		
	Weight	16.53 lb (7.5 kg)		
Memory and processor	128 MB SDRAM; Packet bu	ffer size: 4 MB, 16 MB flash		
Mounting and enclosure	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 Gb/s		
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)		
	Operating relative humidity	10% to 90%, noncondensing		
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)		
	Nonoperating/Storage relative humidity	5% to 95%, noncondensing		
	Acoustic	ISO 7779		
Electrical characteristics	Maximum heat	444 BTU/hr (468.42 kJ/hr)		
	dissipation			
	Voltage	100 - 240 VAC, rated		

QuickSpecs

Technical Specifications

HPE	5500	SI	Switch	Series
	3300		Switch	Jenes

Maximum power rating	870 W	
PoE power	740 W	
Frequency	50/60 Hz	
Notes	theoretical maximum with fully loaded PoE modules populated. F supply. It is depender may be supplemented	ng and maximum heat dissipation are the worst-case numbers provided for planning the infrastructure (if equipped), 100% traffic, all ports plugged in, and all POE power is the power supplied by the internal power at on the type and quantity of power supplies and d with the use of an external power supply (EPS). aximum power consumption is 500 W; POE power is
		s-Part 1; EN 60825-2 Safety of Laser Products-Part 2; 1950-1/A11; FDA 21 CFR Subchapter J; ROHS
2003; ETSI EN 300 386 V1 EN 61000-4-3; EN 61000-	.3.3; AS/NZS CISPR22 (4-4; EN 61000-4-5; EN	s A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN e 2004/108/EC; FCC (CFR 47, Part 15) Class A
IMC - Intelligent Managem	ent Center; command-	line interface; Web browser; SNMP Manager
details on the service-level	l descriptions and prod	at: http://www.hpe.com/networking/services for uct numbers. For details about services and response lett Packard Enterprise sales office.
s Device management		RFC 2710 Multicast Listener Discovery (MLD) for
RFC 1305 NTPv3 RFC 1901 (Community base RFC 2452 MIB for TCP6 RFC 2454 MIB for UDP6 RFC 2573 (SNMPv3 Applic RFC 2576 (Coexistence best V3) RFC 2819 RMON RFC 3410 (Management For RFC 3416 (SNMP Protocol RFC 3416 (SNMP Protocol RFC 3417 (SNMP Transport HTML and telnet manager Multiple Configuration Files SNMP v3 and RMON RFC 3 SSHv1/SSHv2 Secure Shell General protocols IEEE 802.1ad Q-in-Q IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q (GVRP) IEEE 802.1S (MSTP)	ations) tween SNMP V1, V2, ramework) Operations v2) rt Mappings) ment s support	IPv6 RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only) RFC 3056 Connection of IPv6 Domains via IPv4 Clouds RFC 3162 RADIUS and IPv6 RFC 3306 Unicast-Prefix-based IPv6 Multicast Addresses RFC 3315 DHCPv6 (client and relay) RFC 3484 Default Address Selection for IPv6 RFC 3493 Basic Socket Interface Extensions for IPv6 RFC 3513 IPv6 Addressing Architecture RFC 3542 Advanced Sockets API for IPv6 RFC 3587 IPv6 Global Unicast Address Format RFC 3596 DNS Extension for IPv6 RFC 3810 MLDv2 for IPv6 RFC 4113 MIB for UDP RFC 4443 ICMPv6
	PoE power Frequency Notes UL 60950-1; EN 60825-1 S IEC 60950-1; CAN/CSA-C2 Compliance FCC part 15 Class A; VCCL 2003; ETSI EN 300 386 V1 EN 61000-4-3; EN 61000- 61000-3-3:1995 +A1:2001+ IMC - Intelligent Managem Refer to the Hewlett Packa details on the service-level times in your area, please of Device management RFC 1157 SNMPv1/v2c RFC 1305 NTPv3 RFC 1901 (Community bas RFC 2452 MIB for TCP6 RFC 2454 MIB for UDP6 RFC 2573 (SNMPv3 Applic RFC 2576 (Coexistence be V3) RFC 2819 RMON RFC 3410 (Management F RFC 3416 (SNMP Protocol RFC 3417 (SNMP Transport HTML and telnet manager Multiple Configuration File SNMP v3 and RMON RFC SSHv1/SSHv2 Secure Shell General protocols IEEE 802.1ad Q-in-Q IEEE 802.1b MAC Bridges IEEE 802.1p Priority IEEE 802.1Q (GVRP) IEEE 802.1Q (GVRP)	PoE power740 WFrequency50/60 HzNotesMaximum power ratir theoretical maximum with fully loaded PoE modules populated. F supply. It is depender may be supplemented With AC input: the ma 370 W.UL 60950-1; EN 60825-1 Safety of Laser Products IEC 60950-1; CAN/CSA-C22 No. 60950-1; EN 60 ComplianceFCC part 15 Class A; VCCI Class A; EN 55022 Class 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 O EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directiv IMC - Intelligent Management Center; command- Refer to the Hewlett Packard Enterprise website a details on the service-level descriptions and prod times in your area, please contact your local Hewlet Bovice management RFC 1305 NTPv3 RFC 1901 (Community based SNMPv2) RFC 2452 MIB for TCP6 RFC 2452 MIB for TCP6 RFC 2452 MIB for TCP6 RFC 2576 (Coexistence between SNMP V1, V2, V3)RFC 1819 RMON RFC 3410 (Management Framework) RFC 3410 (SNMP Transport Mappings) HTML and telnet management Multiple Configuration Files SNMP v3 and RMON RFC support SSHv1/SSHv2 Secure ShellGeneral protocols IEEE 802.1a Q -in-Q IEEE 802.1p Priority IEEE 802.10 (GVRP)

QuickSpecs

Technical Specifications

HPE 5500 SI Switch Series

RFC 1212 Concise MIB Definitions Tree IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation (LAG) IEEE 802.3ae 10-Gigabit Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-X IEEE 802.3x Flow Control IEEE 802.3z 1000BASE-X RFC 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 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 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 RFC 1157 SNMPv1 Allocation RFC 2131 DHCP RFC 2236 IGMP Snooping RFC 2375 IPv6 Multicast Address Assignments RFC 2581 TCP Congestion Control 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

RFC 1213 MIB II RFC 1724 RIPv2 MIB RFC 1757 Remote Network Monitoring 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-Notification MIB** RFC 2573 SNMP-Target MIB RFC 2574 SNMP USM MIB **RFC 2618 RADIUS Authentication Client MIB** RFC 2620 RADIUS Accounting Client 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 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 2573 SNMPv3 Applications RFC 2574 SNMPv3 User-based Security Model (USM) RFC 2575 SNMPv3 View-based Access Control Model (VACM)

QuickSpecs

Technical Specifications

Network Management Protocol (SNMP) RFC 3484 Default Address Selection for Internet Protocol version 6 (IPv6) RFC 3493 Basic Socket Interface Extensions for IPv6 RFC 3542 Advanced Sockets Application Program Interface (API) for IPv6 RFC 3587 IPv6 Global Unicast Address Format RFC 3596 DNS Extensions to Support IP Version 6 RFC 3410 Introduction to Version 3 of the Internet-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) Model VACM) Specification 802.1r - GARP Proprietary Attribute Registration Protocol (GPRP)

HPE 5500 SI Switch Series

RFC 2576 Coexistence between SNMP versions RFC 2578 SMIv2 RFC 2581 TCP6 RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations RFC 3176 sFlow standard Network Management Framework RFC 3414 SNMPv3 User-based Security Model (USM) RFC 3415 SNMPv3 View-based Access Control ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3

IPv6

RFC 1887 IPv6 Unicast Address Allocation Architecture RFC 1981 IPv6 Path MTU Discovery RFC 2080 RIPng for IPv6 RFC 2373 IPv6 Addressing Architecture RFC 2375 IPv6 Multicast Address Assignments RFC 2460 IPv6 Specification RFC 2461 IPv6 Neighbor Discovery RFC 2462 IPv6 Stateless Address Autoconfiguration RFC 2463 ICMPv6 RFC 2464 Transmission of IPv6 over Ethernet Networks RFC 2475 IPv6 DiffServ Architecture

QoS/CoS

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

Security

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

QuickSpecs

HPE 5500 SI Switch Series

Accessories

HPE 5500 SI Switch Series accessories

Modules

HP 5500 2-port 10GbE XFP Module	JD359B
HP 5500 2-port 10GbE Local Connect Module	JD360B
HP 5500 1-port 10GbE XFP Module	JD361B
HPE FlexNetwork 5500/5120 2-port 10GbE SFP+ Module	JD368B
HPE FlexNetwork 5500/4800 2-port GbE SFP Module	JD367A
HPE FlexNetwork 5500/5120 2-port 10GBASE-T Module	JG535A
HP 5130/5510 10GBASE-T 2-port Module	JH156A
HP 5130/5510 10GBASE-T 2-port Module	JH156A

Transceivers

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 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 X120 1G SFP LC SX Transceiver	JD118B
HPE X120 1G SFP LC LX Transceiver	JD119B
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
HPE X120 1G SFP LC BX 10-U Transceiver	JD098B
HPE X120 1G SFP LC BX 10-D Transceiver	JD099B
HPE X120 1G SFP RJ45 T Transceiver	JD089B

Cables

HPE X230 Local Connect 100cm CX4 Cable	JD364B
HPE X230 CX4 to CX4 3m Cable	JD365A
HP LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HP LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HP LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
HP LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A

QuickSpecs

HPE 5500 SI Switch Series

Accessories

HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A	
HP LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A	
HP LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A	
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable	QK732A	
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable	QK733A	
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable	QK734A	
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A	
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A	
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	QK737A	
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 500 C 1m RPS Cable	JD184A	

¹Products covered by 1 year warranty. See details at www.hpe.com/networking/warrantyquickref

QuickSpecs

HPE 5500 SI 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; Dupl	ex: full only	
XFP Module (JD359B)	Services	Refer to the Hewlett Packard Enterprise website at		
		http://www.hpe.com/ne	etworking/services for details on the service-	
		level descriptions and pro	duct numbers. For details about services and	
			ea, please contact your local Hewlett Packard	
		Enterprise sales office.		
HP 5500 1-port 10GbE	Ports	1 XFP 10-GbE port; Duple:	k: full only	
XFP Module (JD361B)	Services	Refer to the Hewlett Packard Enterprise website at		
		level descriptions and pro	etworking/services for details on the service- duct numbers. For details about services and ea, please contact your local Hewlett Packard	
HPE FlexNetwork	Ports	2 SFP 1000 Mbps ports		
5500/4800 2-port GbE	Services	Refer to the Hewlett Pack	ard Enterprise website at	
SFP Module (JD367A)		http://www.hpe.com/ne	etworking/services for details on the service-	
		level descriptions and pro	duct numbers. For details about services and	
		response times in your area, please contact your local Hewlett Packard		
		Enterprise sales office.		
HPE X125 1G SFP LC	Ports	1 LC 1000Base-LH port (r	no IEEE standard exists for 1550 nm optics)	
LH40 1310nm	Connectivity	Connector type	LC	
Transceiver (JD061A)		Wavelength	1310 nm	
A small form-factor	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)	
pluggable SFP Gigabit LH40 transceiver that		Full configuration weight	0.04 lb. (0.02 kg)	
provides a full duplex	Electrical characteristics	Power consumption typica	al 0.8 W	
Gigabit solution up to		Power consumption	1.0 W	
40km on a single-mode		maximum		
fiber.	Cabling	Cable type:		
		Single-mode fiber optic, complying with ITU-T G.652;		
		Maximum distance:		
		• 40km distance		
		Fiber type	Single Mode	
	Services	Refer to the Hewlett Pack	•	
			etworking/services for details on the service-	
			duct numbers. For details about services and ea, please contact your local Hewlett Packard	
		response nimes in your dre		

QuickSpecs

HPE 5500 SI Switch Series

Accessory Product Details

		Enterprise sales office.		
HPE X120 1G SFP LC	Ports	1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optio		
LH40 1550nm	Connectivity	Connector type	LC	
Transceiver (JD062A)		Wavelength	1550 nm	
A small form-factor	Physical characteristics	Dimensions	2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17	
pluggable (SFP) Gigabit		Full configuration and inlat	cm)	
LH40 transceiver that		Full configuration weight	0.04 lb. (0.02 kg)	
provides a full-duplex	Electrical characteristics		1.0 W	
Gigabit solution up to 40		Power consumption maximum	1.0 W	
km on a single mode fiber.	Cabling	Cable type:		
			omplying with ITU-T G.652;	
		Maximum distance:		
		Maximum distance.		
		• 40km distance		
		Fiber type	Single Mode	
	Services	Refer to the Hewlett Pack	ard Enterprise website at	
			etworking/services for details on the service-	
			duct numbers. For details about services and	
		response times in your area, please contact your local Hewlett Packard Enterprise sales office.		
	Devite			
HPE X125 1G SFP LC LH70 Transceiver	Ports	1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics)Connector typeLC		
(JD063B)	Connectivity	Connector type		
		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	0.04 lb. (0.02 kg)	
provides a full-duplex		weight		
Gigabit solution up to	Electrical characteristics	Power consumption	0.8 W	
70km on a single-mode		typical		
fiber.		Power consumption	1.0 W	
		maximum		
	Cabling	Cable type:		
		Single-mode fiber optic, c	omplying with ITU-T G.652;	
		Maximum distance:		
		• 70km		
		Fiber type	Single Mode	
	Services	Refer to the Hewlett Pack		
		http://www.hpe.com/networking/services for deta		
			duct numbers. For details about services and	
		response times in your are	ea, please contact your local Hewlett Packard	

QuickSpecs

Accessory Product Details

Enterprise	sales office.

		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 oluggable (SFP) Gigabit SX transceiver that	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-duplex Gigabit solution up to		Full configuration weight	0.04 lb. (0.02 kg)
50m on a Multimode iber.	Electrical characteristics	Power consumption typical	0.8 W
		Power consumption maximum	1.0 W
	Cabling	Maximum distance: • FDDI Grade distance = • OM1 = 275m	220m
		 OM1 = 27511 OM2 = 500m OM3 = Not Specified by 	v standard
		Cable length	up to 550m
		Fiber type	Multi Mode
	Services	http://www.hpe.com/r	oduct numbers. For details about services and
	Services	http://www.hpe.com/r	etworking/services for details on the service-
	Ports	http://www.hpe.com/r level descriptions and pro- response times in your a Enterprise sales office.	tetworking/services for details on the service- oduct numbers. For details about services and rea, please contact your local Hewlett Packard
		http://www.hpe.com/r level descriptions and pro- response times in your a Enterprise sales office.	networking/services for details on the service- oduct numbers. For details about services and rea, please contact your local Hewlett Packard
Fransceiver (JD119B)	Ports	http://www.hpe.com/r level descriptions and pro- response times in your a Enterprise sales office.	tetworking/services for details on the service- oduct numbers. For details about services and rea, please contact your local Hewlett Packard
Transceiver (JD119B) A small form-factor bluggable (SFP) Gigabig	Ports	http://www.hpe.com/r level descriptions and pro- response times in your a Enterprise sales office. 1 SFP 1000BASE-LX por Connector type Wavelength	t (IEEE 802.3z Type 1000BASE-LX) LC 1300 nm
Transceiver (JD119B) A small form-factor bluggable (SFP) Gigabig _X transceiver that provides a full duplex	Ports Connectivity	http://www.hpe.com/r level descriptions and pro- response times in your a Enterprise sales office. 1 SFP 1000BASE-LX por Connector type Wavelength	tetworking/services for details on the service- oduct numbers. For details about services and rea, please contact your local Hewlett Packard (IEEE 802.3z Type 1000BASE-LX) LC 1300 nm 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17
Transceiver (JD119B) A small form-factor oluggable (SFP) Gigabig _X transceiver that provides a full duplex Gigabit solution up to 550m on MMF or 10Km	Ports Connectivity	http://www.hpe.com/r level descriptions and pro- response times in your a Enterprise sales office. 1 SFP 1000BASE-LX por Connector type Wavelength Dimensions Full configuration weight	t (IEEE 802.3z Type 1000BASE-LX) LC 1300 nm 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm)
Transceiver (JD119B) A small form-factor oluggable (SFP) Gigabig _X transceiver that provides a full duplex Gigabit solution up to 550m on MMF or 10Km	Ports Connectivity Physical characteristics	http://www.hpe.com/r level descriptions and pro- response times in your a Enterprise sales office. 1 SFP 1000BASE-LX por Connector type Wavelength Dimensions Full configuration weight Power consumption	tetworking/services for details on the service- oduct numbers. For details about services and rea, please contact your local Hewlett Packard t (IEEE 802.3z Type 1000BASE-LX) LC 1300 nm 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) 0.04 lb. (0.02 kg)
Transceiver (JD119B) A small form-factor oluggable (SFP) Gigabig _X transceiver that provides a full duplex Gigabit solution up to 550m on MMF or 10Km	Ports Connectivity Physical characteristics	http://www.hpe.com/r level descriptions and pro- response times in your a Enterprise sales office. 1 SFP 1000BASE-LX por Connector type Wavelength Dimensions Full configuration weight Power consumption typical Power consumption	<pre>tetworking/services for details on the service- oduct numbers. For details about services and rea, please contact your local Hewlett Packard t (IEEE 802.3z Type 1000BASE-LX) LC 1300 nm 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) 0.04 lb. (0.02 kg) 0.8 W 1.0 W</pre>
HPE X120 1G SFP LC LX Transceiver (JD119B) A small form-factor pluggable (SFP) Gigabig LX transceiver that provides a full duplex Gigabit solution up to 550m on MMF or 10Km on SMF	Ports Connectivity Physical characteristics Electrical characteristics	http://www.hpe.com/r level descriptions and pro- response times in your a Enterprise sales office. 1 SFP 1000BASE-LX por Connector type Wavelength Dimensions Full configuration weight Power consumption typical Power consumption maximum Cable type:	<pre>tetworking/services for details on the service- oduct numbers. For details about services and rea, please contact your local Hewlett Packard t (IEEE 802.3z Type 1000BASE-LX) LC 1300 nm 2.17(d) x 0.6(w) x 0.46(h) in. (5.51 x 1.52 x 1.17 cm) 0.04 lb. (0.02 kg) 0.8 W 1.0 W</pre>

QuickSpecs	Detelle		
Accessory Product	Details		
	Services		kard Enterprise website at
			etworking/services for details on the service- oduct numbers. For details about services and
			rea, please contact your local Hewlett Packard
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 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)
LX-BX10-U transceiver that provides a full duplex		Full configuration weight	0.04 lb. (0.02 kg)
Gigabit solution up to 10km on a single mode	Electrical characteristics	Power consumption typical	0.8 W
cable.		Power consumption maximum	1.0 W
	Cabling	Maximum distance: • 10km	
		Fiber type	Single Mode
	Notes	TX 1310nm RX 1490nm	
		level descriptions and pro	etworking/services for details on the service- oduct numbers. For details about services and rea, please contact your local Hewlett Packard
HPE X120 1G SFP LC BX 10-D Transceiver	Ports	1 LC 1000BASE-BX10 po Duplex: full only	rt (IEEE 802.3ah Type 1000BASE-BX10-D);
(JD099B)	Connectivity	Connector type	LC
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)
LX-BX10-D transceiver that provides a full duplex Gigabit solution up to 10km on a single mode cable.		Full configuration weight	0.04 lb. (0.02 kg)
	Electrical characteristics	typical	0.8 W
		Power consumption maximum	1.0 W
	Cabling	Maximum distance: • Up to 10km	
		Fiber type	Single Mode
	Notes	TX 1490nm RX 1310nm	
	Services	http://www.hpe.com/n	kard Enterprise website at etworking/services for details on the service- oduct numbers. For details about services and Pa

QuickSpecs

HPE 5500 SI Switch Series

Accessory Product Details

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

HPE X120 1G SFP RJ45 T	Ports	1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T)			
Transceiver	Connectivity Physical characteristics	Connector type	RJ-45		
(JD089B)		Dimensions	2.71(d) x 0.54(w) x 0.55(h) in. (6.88 x 1.37 x 1.4 cm)		
		Full configuration weight	0.07 lb. (0.03 kg)		
A small form	Electrical	Power consumption typical	0.8 W		
factor pluggable	characteristics	Power consumption maximum	1.0 W		
(SFP) Gigabit 1000Base-T transceiver that provides a full duplex Gigabit	Cabling	Cable type: 1000BASE-T: Category 5 (5E or better recommended), 100 Ù differential 4-pair unshield twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;			
solution up to 100m on a Cat-		Maximum distance: • 100m			
5+ cable.	Services	Refer to the Hewlett Packard Enterprise website at: http://www.hpe.com/networking/services and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.			
OM3 2-Fiber 0.5 Pack Fiber Opti (AJ833A)		modal bandwidth distances of up to			
		Maximum distar 10Gbps Transfer	ice : Rate (Ethernet): 300m		
	Notes	fiber optic cable a	t buffered duplex fiber optic multimode OM3 50/125 um and Ethernet assembly with LC duplex connectors on one ex connectors on other end.		
		2.0um Co Optical g @850/13 Optical g @850/13 @850/13 CABLE:	lass: Bandwidth: For Laser sources: 2000/500 MHz-km 00nm. VCSEL Laser sources: 600 / 600 meters 00nm for Gigabit Ethernet compliant links. The cable is duplex zipcord graded index 50/125um de optical fiber and designed to work in both the 850 and wavelength windows. ABLE & CABLE ASSEMBLY CONFIGURATION: laterial: Riser Grade - Low Smoke Zero Halogen		
			olor: Aqua for OM3 multimode per TIA 598		

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

HPE 5500 SI Switch Series

Accessory Product Details

HP LC to LC Multi-mode Cabl		
OM3 2-Fiber 2.0m 1- Pack Fiber Optic Cable (AJ835A)	ling	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
Note	es	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
Serv	vices	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 LC to LC Multi-mode Cabl OM3 2-Fiber 5.0m 1- Pack Fiber Optic Cable	ling	Cable type: 50/125 μ m core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;
(AJ836A)		
(AJ836A)		Maximum distance : 10Gbps Transfer Rate (Ethernet): 300m

QuickSpecs

HPE 5500 SI Switch Series

buffered duplex fiber optic multimode OM3 50/125 um fiber optic cable and

Accessory Product Details

		Ethernet assembly with LC duplex connectors on one end and LC duplex connectors on other end.
		 Dimensions: Core diameter: 50 ± 3.0um Cladding diameter: 125 ± 2.0um Coating diameter: 245 ± 10um Optical Glass Bandwidth: For LED sources: 1500/500 MHz-km @850/1300nm. Optical Glass: For Laser sources: 2000/500 MHz-km @850/1300nm. VCSEL Laser sources: Shall achieve 600 / 600 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg
	Services	Refer to the Hewlett Packard Enterprise website at <u>http://www.hpe.com/networking/services</u> for details on the service- level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.
HP LC to LC Multi-mode OM3 2-Fiber 15.0m 1- Pack Fiber Optic Cable (AJ837A)	Cabling	Cable type: 50/125 μ m (core/cladding) diameter, mulitimode fiber optic, with effective modal bandwidth of 2000 MHz/km as detailed in TIA-492AAAC for distances of up to 300 m;
	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 ± 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

Accessory Product	Details		
		 meters @850/1300nm for Gigabit Ethernet compliant links. CABLE: The cable is duplex zipcord graded index 50/125um multimode optical fiber. The cable is designed to work in both the 850 and 1300 nm wavelength windows. BULK CABLE & CABLE ASSEMBLY CONFIGURATION: Jacket Material: Riser Grade - Low Smoke Zero Halogen thermoplastic. Jacket Color: Aqua for OM3 multimode per TIA 598 Boot Color: White Insertion Loss: less than 0.5 dB @ 850 with LED source, 0.003 dB/M added for lengths > 30 meters. Maximum Cable attenuation: 3.0 dB/km @ 850 nm, 1.0 dB/Km @ 1310 nm @ 23°C as tested in accordance with EIA 455-46. Weight: Air Packed Weight: 1 LB Net Weight: 0.454Kg 	
	Services	Refer to the Hewlett Packard Enterprise website at <u>http://www.hpe.com/networking/services</u> for details on the service- level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	
HP 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 	

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

QuickSpecs

HPE 5500 SI Switch Series

Accessory Product Details

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable (QK732A)	Notes	Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.
		 Core Diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um Bandwidth: 3000 MHz-km @ 850nm (Laser) Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic Boot Color: White Outer Jacket Print: 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
	Services	@ 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.
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable (QK733A)	Notes	Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.
		 Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um Bandwidth: 3000 MHz-km @ 850nm (Laser) Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic Boot Color: White
		 Outer Jacket Print: 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- level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

QuickSpecs

Accessory Product	Details	
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable (QK734A)	Notes	Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.
		 Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um Bandwidth: 3000 MHz-km @ 850nm (Laser) Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic Boot Color: White Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45
	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services 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 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 longitudinal white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45
	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

QuickSpecs

Accessory Product Details			
HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable (QK736A)	Notes	Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.	
		 Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um Bandwidth: 3000 MHz-km @ 850nm (Laser) Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic Boot Color: White Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45 	
	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services 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 Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A)	Notes	Cable Specs: Graded-index, "bendable" fiber optic multimode OM3+ 50/125um duplex cable and Ethernet assembly with LC duplex connectors on each end.	
		 Core diameter: 50um ±3um, Cladding diameter: 125um ±2um; Coating diameter: 245 ± 10um Bandwidth: 3000 MHz-km @ 850nm (Laser) Jacket Color: Blue Jacket Material: Riser Grade – Low Smoke Zero Halogen (LSZH) thermoplastic Boot Color: White Outer Jacket Print: HPE PremierFlex OM3+ Fiber Optic Cable, 50/125um, Type OFNR (UL), LSZH, cUL, OFN FT4, ROHS. Cable also has a longitudinal white stripe that runs the entire length of the cable. Insertion Loss: Less than 0.5dB @ 850nm with LED source, 0.003dB/m added for lengths >30m Maximum Cable Attenuation: 3.0 dB/km @ 850nm, 1.0 dB/km @ 1310nm @ 23°C as tested in accordance with EIA 455-45 	
	Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.com/networking/services level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	

Accessory Product Details

HPE RPS1600 Redundant Power	Ports	8 redundant power supply ports Restrictions: two -56V/25A DC(PoE); six -56V/8A DC(non-PoE)		
System (JG136A)	Physical characteristics		15.63(d) x 17.32(w) x 1.74(h) in. (39.7 x 44 x 4.42 cm)	
		Weight	14.11 lb. (6.4 kg)	
		Full configuration weight	16.75 lb. (7.6 kg)	
	Environment	-	14°F to 122°F (-10°C to 50°C)	
		Operating relative humidity	5% to 95%	
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
		Nonoperating/Storage relative humidity	5% to 95%	
		Altitude	up to 13,123 ft. (4 km)	
		Acoustic	Pressure: 53 dB; ISO 7779, ISO 9296	
	Electrical characteristics	Voltage	100-120/200-240 VAC	
		Current	30/60 A	
		Idle power	38 W	
		Maximum power rating	3550 W	
		RPS power	3200 W	
		PoE power	2800 W	
		RPS	-55 V	
		ΡοΕ	-55 V	
		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, Subpart B RoHS Compliant; EN 60950-1/A11; C-Tick; VCCI Class A; ROHS Complian EN 300386		
	Services	Refer to the Hewlett Packa	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		

QuickSpecs

Accessory Product Details

Enterprise sales office.

HPE RPS1600 1600W AC Power Supply (JG137A)	Physical characteristics	Dimensions	8.19(d) x 4.96(w) x 1.63(h) in. (20.8 x 12.6 x 4.15 cm)
		Weight	3.02 lb. (1.37 kg)
	Environment	Operating temperature	14°F to 122°F (-10°C to 50°C)
		Operating relative humidity	5% to 95%
		Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Nonoperating/Storage relative humidity	5% to 95%
	Electrical characteristics	Voltage	100-120/200-240 VAC
		Current	15/30 A
		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	Refer to the Hewlett Packa	ard Enterprise website at:
		level descriptions and proc	tworking/services for details on the service- duct numbers. For details about services and a, please contact your local Hewlett Packard

QuickSpecs

Summary of Changes

Date	Version History	Action	Description of Change
20-May-2016	From Version 16 to 17	Changed	Edits made on Configuration and Accessories sections
25-Mar-2016	From Version 15 to 16	Changed	Product overview, Features and benefits, Configuration,
			Technical Specifications and Accessories updated.
01-Dec-2014	From Version 14 to 15	Changed	Warranty and support updated
11-Nov-2013	From Version 13 to 14	Changed	Notes and Cables were revised in Configuration.
30-Sep-2013	From Version 12 to 13	Changed	HP 5500/5120 2p 10GBASE-T Module was added to Modules
			HP X110 100M SFP LC FX Dual Mode Transceiver and HP X110 100M SFP LC LX10 Transceiver were removed from Accessories
12-Jul-2013	From Version 11 to 12	Changed	Acoustic was added to Technical Specifications Models were removed throughout
05-Jul-2013	From Version 10 to 11	Added	The Configuration section was added.
10-Jun-2013	From Version 8 to 10	Added	OM4 cables were added.
14-May-2013	From Version 7 to 8	Changed	Updated Accessories, Features and Benefits, and the weights and dimensions for each model.
07-Nov-2012	From Version 6 to 7	Changed	The product name was updated throughout the document.
30-Sep-2012	From Version 5 to 6	Added	Accessory Product Details was added.
16-Mar-2012	From Version 4 to 5	Changed	The Features and Benefits were revised.
16-Aug-2011	From Version 2 to 4	Added	Models were added.
16-Mar-2011	From Version 1 to 2	Changed	Accessories were revised.





© Copyright 2016 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

To learn more, visit: http://www.hpe.com/networking

c04111663 - 13794 - Worldwide - V17 - 20-May-2016