



Key features

- High expandability for investment protection
- Premium resiliency and integrated management
- Enhanced MPLS/VPLS support
- Full-featured IPv4/IPv6 dual stack
- 1440 W of PoE+ power using dual power supplies for high resiliency

Product overview

The HP 5500 HI Switch Series comprises Gigabit Ethernet switches that deliver outstanding resiliency, security, and multiservice support capabilities at the edge layer of data center, large campus, and metro Ethernet networks. The switches can also be used in the core layer of SMB networks.

With Intelligent Resilient Fabric (IRF) support and available dual power supplies, the HP 5500 HI Switch Series can deliver the highest levels of resiliency and manageability. In addition, the PoE+ models provide up to 1,440 W of PoE+ power with the dual power supply configuration.

Designed with two fixed 10GbE ports and extension module flexibility, these switches can provide up to six 10GbE uplink or 70 GbE ports. With complete IPv4/IPv6 and MPLS/VPLS features, the series provides investment protection with an easy transition from IPv4 to IPv6 networks.

Features and benefits

Quality of Service (QoS)

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 per-port or per-VLAN basis

• Traffic policing

supports Committed Access Rate (CAR) and line rate

Powerful QoS feature

creates traffic classes based on access control lists (ACLs), IEEE 802.1p precedence, IP, and DSCP or Type of Service (ToS) precedence; supports filter, redirect, mirror, or remark; supports the following congestion actions: strict priority (SP) queuing, weighted round robin (WRR), weighted fair queuing (WFQ), weighted random early discard (WRED), weighted deficit round robin (WDRR), SP+WDRR, and SP+WFQ

Storm restraint

allows limitation of broadcast, multicast, and unknown unicast traffic rate to reduce unwanted broadcast traffic on the network

Management

Friendly port names

allows assignment of descriptive names to ports

sFlow (RFC 3176)

provides scalable ASIC-based wire-speed network monitoring and accounting with no impact on network performance; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes

• Complete session logging

provides detailed information for problem identification and resolution

- Remote configuration and management
 enables configuration and management through a secure Web
 browser or a CLI located on a remote device
- Manager and operator privilege levels
 provides read-only (operator) and read/write (manager) access on
 CLI and Web browser management interfaces
- Management VLAN

segments traffic to and from management interfaces, including CLI/telnet, a Web browser interface, and SNMP

Command authorization

leverages RADIUS to link a custom list of CLI commands to an individual network administrator's login; an audit trail documents activity

Secure Web GUI

provides a secure, easy-to-use graphical interface for configuring the module via HTTPS

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

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

• In-service software upgrade (ISSU)

enables operators to perform upgrades in the shortest possible amount of time with reduced risk to network operations or traffic disruptions

Connectivity

• Auto-MDIX

provides automatic adjustments for straight-through or crossover cables on all 10/100 and 10/100/1000 ports

Packet storm protection

protects against broadcast, multicast, or unicast storms with user-defined thresholds

• 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 the two devices

Flow control

provides back pressure using standard IEEE 802.3x, reducing congestion in heavy traffic situations

Fixed 10GbE ports

provides two fixed SFP+ ports for a 20 GbE connection to the network without the need for additional extension interface modules

Optional 10GbE ports

deliver, through the use of optional modules, additional 10GbE connections, which are available for uplinks or high-bandwidth server connections; flexibly supports XFP, SFP+, or CX4 local connections

Optional 8-port SFP module

adds up to eight additional wire-speed Gigabit Ethernet ports for unprecedented Gigabit density in a single 1U enclosure

Jumbo packet support

supports up to 12288-byte frame size to improve the performance of large data transfers

• High-bandwidth CX4 local stacking

achieves 12 Gb/s per connection when using local CX4 stacking, allowing for up to 96 Gb/s total stacking bandwidth (full duplex) in a resilient stacking configuration

IEEE 802.3at Power over Ethernet (PoE+)

provides up to 30 W per port that allows support of the latest PoE+-capable devices such as IP phones, wireless access points, and security cameras, as well as any IEEE 802.3af-compliant end device; eliminates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments

Performance

- Hardware-based wire-speed 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
- Nonblocking architecture

delivers up to 224 Gb/s of wire-speed switching with a nonblocking switching fabric and up to 167 million pps throughput

Resiliency and high availability

- Separate data and control paths separates control from services and keeps service processing isolated; increases security and performance
- Device Link Detection Protocol (DLDP)

monitors link connectivity and shuts down ports at both ends if unidirectional traffic is detected, preventing loops in STP-based networks

Intelligent Resilient Framework (IRF)

creates virtual resilient switching fabrics, where two or more switches perform as a single L2 switch and L3 router; switches do not have to be co-located and can be part of a disaster-recovery system; servers or switches can be attached using standard LACP for automatic load balancing and high availability; can eliminate the need for complex protocols like Spanning Tree Protocol, Equal-Cost Multipath (ECMP), or VRRP, thereby simplifying network operation

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

• Smart link

allows 50 ms failover between links

• Virtual Router Redundancy Protocol (VRRP) allows groups of two routers to dynamically back each other up to create highly available routed environments

Manageability

Dual flash images

provides independent primary and secondary operating system files for backup while upgrading

- Multiple configuration files allow multiple configuration files to be stored to a flash image
- IEEE 802.1AB Link Layer Discovery Protocol (LLDP) facilitates easy mapping using network management applications with LLDP automated device discovery protocol

• Troubleshooting

allows ingress and egress port monitoring, enabling network problem solving; virtual cable tests provide visibility into cable problems

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, and ARPv6

Layer 2 switching

- GARP VLAN Registration Protocol allows automatic learning and dynamic assignment of VLANs
- IP multicast snooping and data-driven IGMP automatically prevents flooding of IP multicast traffic
- Internet Group Management Protocol (IGMP) and Multicast
 Listener Discovery (MLD) protocol snooping
 controls and manages the flooding of multicast packets in a Layer 2
 network
- 32K MAC addresses provide access to many Layer 2 devices
- IEEE 802.1 ad 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

- Spanning Tree/MSTP, RSTP, and STP root guard prevent network loops
- 32 MSTP instances

allow multiple configurations of STP per VLAN group

Layer 3 services

• Loopback interface address

defines an address in Routing Information Protocol (RIP) and Open Standard Path First (OSPF), improving diagnostic capability

• Address Resolution Protocol (ARP)

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

- Dynamic Host Configuration Protocol (DHCP) simplifies the management of large IP networks and supports client and server; DHCP Relay enables DHCP operation across subnets
- 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

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
- PIM-SSM, PIM-DM, and PIM-SM (for IPv4 and IPv6) support IP Multicast address management and inhibition of DoS attacks
- MPLS support

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

- Virtual Private LAN Service (VPLS) establishes point-to-multipoint Layer 2 VPNs across a provider network
- Bidirectional Forwarding Detection (BFD)
 enables link connectivity monitoring and reduces network
 convergence time for RIP, OSPF, BGP, IS-IS, VRRP, MPLS, and IRF
- Policy-based routing

makes routing decisions based on policies set by the network administrator

• Equal-Cost Multipath (ECMP)

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

• IPv6 tunneling

allows a smooth transition from IPv4 to IPv6 by encapsulating IPv6 traffic over an existing IPv4 infrastructure

Security

• Access control lists (ACLs)

provide IP Layer 2 to Layer 4 traffic filtering; support global ACL, VLAN ACL, port ACL, and IPv6 ACL; can support up to 6,144 ingress ACLs and 1,024 egress ACLs

• IEEE 802.1X

defines an industry-standard method of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server

MAC-based authentication

authenticates the client with the RADIUS server based on the client's MAC address

- Identity-driven security and access control
 - Per-user ACLs

permit or deny user access to specific network resources based on user identity and time of day, allowing multiple types of users on the same network to access specific network services without risking network security or providing unauthorized access to sensitive data

- Automatic VLAN assignment

assigns users automatically to the appropriate VLAN based on their identities

• Port security

allows access only to specified MAC addresses, which can be learned or specified by the administrator

• Secure FTP

allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file

• STP BPDU port protection

blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks

• DHCP protection

blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks

DHCP snooping

helps ensure that DHCP clients receive IP addresses from authorized DHCP servers and maintain a list of DHCP entries for trusted ports; prevents reception of fake IP addresses and reduces ARP attacks, improving security

DHCPv6 snooping

ensures that DHCPv6 clients obtain IPv6 addresses from authorized DHCPv6 servers and record IP-to-MAC mappings of DHCPv6 clients

Dynamic ARP protection

blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data

• STP root guard

protects the root bridge from malicious attacks or configuration mistakes

Guest VLAN

provides a browser-based environment to authenticated clients that is similar to IEEE 802.1X

Port isolation

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

• Endpoint Admission Defense (EAD)

provides security policies to users accessing a network

RADIUS/HWTACACS

eases switch management security administration by using a password authentication server

Secure management access

delivers secure encryption of all access methods (CLI, GUI, or MIB) through SSHv2 and SNMPv3

• Unicast Reverse Path Forwarding (URPF)

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

• IP source guard helps prevent IP spoofing attacks

IPv6 source guard

help prevent IPv6 spoofing attacks using ND Snooping as well as DHCPv6 Snooping

ND Snooping

allows only packets with a legally obtained IPv6 address to pass

Virtual private network (VPN)

 Generic Routing Encapsulation (GRE) transports Layer 2 connectivity over a Layer 3 path in a secured way; enables the segregation of traffic from site to site

Convergence

- LLDP-MED (Media Endpoint Discovery)
 defines a standard extension of LLDP that stores values for
- parameters such as QoS and VLAN to automatically configure network devices such as IP phones
- 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
- 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

• LLDP-CDP compatibility

receives and recognizes CDP packets from Cisco's IP phones for seamless interoperation

Additional information

Green initiative support
 provides support for RoHS and WEEE regulations

• Green IT and power

improves energy efficiency through the use of the latest advances in silicon development; shuts off unused ports and utilizes variable-speed fans, reducing energy costs

Warranty and support

• Lifetime warranty

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

Electronic and telephone support

limited electronic and telephone support is available from HP; to reach our support centers, refer to

www.hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to www.hp.com/networking/warrantysummary

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

• Software releases

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

Specifications

	HP 5500-24G-4SFP HI Switch with 2 Interface Slots (JG311A)	HP 5500-48G-4SFP HI Switch with 2 Interface Slots (JG312A)	HP 5500-24G-PoE+-4SFP HI Switch with 2 Interface Slots (JG541A)
Ports	24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	24 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 108ASE-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 fixed Gigabit Ethernet SFP ports	4 fixed Gigabit Ethernet SFP ports	4 fixed Gigabit Ethernet SFP ports
	2 SFP+ 10GbE ports	2 SFP+ 10GbE ports	2 SFP+ 10GbE ports
	2 port expansion module slots	2 port expansion module slots	2 port expansion module slots
	1 RJ-45 serial console port	1 RJ-45 serial console port	1 RJ-45 serial console port
	1 RJ-45 out-of-band management port	1 RJ-45 out-of-band management port	1 RJ-45 out-of-band management port
	Supports a maximum of 38 autosensing 100/1000 ports, with optional module	Supports a maximum of 70 autosensing 100/1000 ports, with optional module	Supports a maximum of 38 autosensing 100/1000 ports, with optional module
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)	2 power supply slots 1 minimum power supply required (ordered separately)	2 power supply slots 1 minimum power supply required (ordered separately)
Physical characteristics	17.32(w) x 14.17(d) x 1.72(h) in (44.00 x 36.00 x 4.37 cm) (1U height)	17.32(w) x 16.54(d) x 1.72(h) in (44.0 x 42.0 x 4.37 cm) (1U height)	17.32(w) x 18.11(d) x 1.72(h) in (43.99 x 46 x 4.37 cm) (1U height)
Weight	16.53 lb (7.5 kg), Fully loaded	18.74 lb (8.5 kg)	22.05 lb (10 kg), Fully loaded
Memory and processor			
	1 GB SDRAM, 512 MB flash; packet buffer size: 3 MB	1 GB SDRAM, 512 MB flash; packet buffer size: 6 MB	1 GB SDRAM, 512 MB flash; packet buffer size: 3 MB
Mounting	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)
Performance			
1000 Mb Latency	< 5 µs	< 5 µs	< 5 µs
10 Gb/s Latency	< 3 µs	< 3 µs	< 3 µs
Throughput	up to 130.9 million pps	up to 166.6 million pps	up to 130.9 million pps
Routing/Switching capacity	176 Gb/s	224 Gb/s	176 Gb/s
Routing table size	12000 entries (IPv4), 6000 entries (IPv6)	12000 entries (IPv4), 6000 entries (IPv6)	12000 entries (IPv4), 6000 entries (IPv6)
MAC address table size	32000 entries	32000 entries	32000 entries
Environment			
Operating temperature	32°F to 122°F (0°C to 50°C)	32°F to 122°F (0°C to 50°C)	32°F to 113°F (0°C to 45°C)
Operating relative humidity	5% to 95%, noncondensing	5% to 95%, noncondensing	5% to 95%, noncondensing
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Nonoperating/Storage relative humidity	5% to 95%, noncondensing	5% to 95%, noncondensing	5% to 95%, noncondensing
Acoustic	Low-speed fan: 47.9 dB, High-speed fan: 51.1 dB ISO 7779	Low-speed fan: 48.6 dB, High-speed fan: 57.6 dB; ISO 7779	Low-speed fan: 41.0 dB, High-speed fan: 64.0 dB; ISO 7779
Electrical characteristics			
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Maximum heat dissipation	481 BTU/hr (507.46 kJ/hr)	651 BTU/hr (686.81 kJ/hr)	460 BTU/hr (485.3 kJ/hr)
Maximum power rating	141 W	191 W	150 W
PoE power			740 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.	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.	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 maximum power available from the required power supply or supplies. Device supports 1 or 2 internal modular power supplies. JG544A will supply up to 435 watts of PoE+ power per installed unit. JG545A will supply up to 800 watts of PoE+ power per installed unit to the extent needed by the installation.

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	HP 5500-24G-4SFP HI Switch with 2 Interface Slots	HP 5500-48G-4SFP HI Switch with 2 Interface Slots	HP 5500-24G-PoE+-4SFP HI Switch with 2 Interface
	(JG311A)	(JG312A)	Slots (JG541A)
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part	UL 60950-1; EN 60825-1 Safety of Laser Products-Part	UL 60950-1; EN 60825-1 Safety of Laser Products-Part
	1; EN 60825-2 Safety of Laser Products-Part 2; IEC	1; EN 60825-2 Safety of Laser Products-Part 2; IEC	1; EN 60825-2 Safety of Laser Products-Part 2; IEC
	60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA	60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA	60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FL
	21 CFR Subchapter J; ROHS Compliance; AS/NZS	21 CFR Subchapter J; ROHS Compliance; AS/NZS	21 CFR Subchapter J; ROHS Compliance; AS/NZS
	60950-1; GB 4943	60950-1; GB 4943	60950-1; GB 4943
Emissions	EN 55022 Class A; CISPR 22 Class A; EN 55024; ICES-003	EN 55022 Class A; CISPR 22 Class A; EN 55024; ICES-003	EN 55022 Class A; CISPR 22 Class A; EN 55024; ICES-00
	Class A; CISPR 24; AS/NZS CISPR 22 Class A; EN	Class A; CISPR 24; AS/NZS CISPR 22 Class A; EN	Class A; CISPR 24; AS/NZS CISPR 22 Class A; EN
	61000-3-2; EN 61000-3-3; GB9254; VCCI-3 CLASS A;	61000-3-2; EN 61000-3-3; GB9254; VCCI-3 CLASS A;	61000-3-2; EN 61000-3-3; GB9254; VCCI-3 CLASS A;
	VCCI-4 CLASS A; ETSI EN 300 386; FCC Part 15 (CFR 47)	VCCI-4 CLASS A; ETSI EN 300 386; FCC Part 15 (CFR 47)	VCCI-4 CLASS A; ETSI EN 300 386; FCC Part 15 (CFR 47)
	CLASS A; YD/T993	CLASS A; YD/T993	CLASS A; YD/T993
Notes	8-port Gig-T and SFP modules (JG313A and JG314A) are supported only in slot 1 of this switch.		8-port Gig-T and SFP modules (JG313A and JG314A) are supported only in slot 1 of this switch.
Services	3-year, 4-hour onsite, 13x5 coverage for hardware	3-year, 4-hour onsite, 13x5 coverage for hardware	3-year, 4-hour onsite, 13x5 coverage for hardware
	(UV870E)	(HQ080E)	(UV870E)
	3-year, 4-hour onsite, 24x7 coverage for hardware (UV873E)	3-year, 4-hour onsite, 24x7 coverage for hardware (HQ081E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UV873E)
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV876E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (HQ084E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV876E)
	3-year, 24x7 SW phone support, software updates	3-year, 24x7 SW phone support, software updates	3-year, 24x7 SW phone support, software updates
	(UV879E)	(HQ083E)	(UV879E)
	1-year, post-warranty, 4-hour onsite, 13x5 coverage	1-year, post-warranty, 4-hour onsite, 24x7 coverage	1-year, post-warranty, 4-hour onsite, 13x5 coverage
	for hardware (HR574E)	for hardware (HR580E)	for hardware (HR574E)
	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR575E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR581E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR575E)
	1-year, post-warranty, 4-hour onsite, 24x7 coverage	Installation with minimum configuration,	1-year, post-warranty, 4-hour onsite, 24x7 coverage
	for hardware, 24x7 software phone support (HR576E)	system-based pricing (UW451E)	for hardware, 24x7 software phone support (HR576E)
	Installation with minimum configuration, system-based pricing (UW451E)	4-year, 4-hour onsite, 13x5 coverage for hardware (HQ085E)	Installation with minimum configuration, system-based pricing (UW451E)
	4-year, 4-hour onsite, 13x5 coverage for hardware	4-year, 4-hour onsite, 24x7 coverage for hardware	4-year, 4-hour onsite, 13x5 coverage for hardware
	(UV871E)	(HQ086E)	(UV871E)
	4-year, 4-hour onsite, 24x7 coverage for hardware (UV874E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ093E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UV874E)
	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV877E)	4-year, 24x7 SW phone support, software updates (HQ091E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV877E)
	4-year, 24x7 SW phone support, software updates	5-year, 4-hour onsite, 13x5 coverage for hardware	4-year, 24x7 SW phone support, software updates
	(UV880E)	(HQ088E)	(UV880E)
	5-year, 4-hour onsite, 13x5 coverage for hardware	5-year, 4-hour onsite, 24x7 coverage for hardware	5-year, 4-hour onsite, 13x5 coverage for hardware
	(UV872E)	(HQ089E)	(UV872E)
	5-year, 4-hour onsite, 24x7 coverage for hardware	5-year, 4-hour onsite, 24x7 coverage for hardware,	5-year, 4-hour onsite, 24x7 coverage for hardware
	(UV875E)	24x7 software phone (HQ094E)	(UV875E)
	5-year, 4-hour onsite, 24x7 coverage for hardware,	5-year, 24x7 SW phone support, software updates	5-year, 4-hour onsite, 24x7 coverage for hardware,
	24x7 software phone (UV878E)	(HQ092E)	24x7 software phone (UV878E)
	5-year, 24x7 SW phone support, software updates (UV881E)	3 Yr 6 hr Call-to-Repair Onsite (HQ082E)	5-year, 24x7 SW phone support, software updates (UV881E)
	3 Yr 6 hr Call-to-Repair Onsite (UW966E)	4 Yr 6 hr Call-to-Repair Onsite (HQ087E)	3 Yr 6 hr Call-to-Repair Onsite (UW966E)
	4 Yr 6 hr Call-to-Repair Onsite (UW967E)	5 Yr 6 hr Call-to-Repair Onsite (HQ090E)	4 Yr 6 hr Call-to-Repair Onsite (UW967E)
	5 Yr 6 hr Call-to-Repair Onsite (UW968E)	1-year, 4-hour onsite, 13x5 coverage for hardware (HR579E)	5 Yr 6 hr Call-to-Repair Onsite (UW968E)
	1-year, 6 hour Call-To-Repair Onsite for hardware	1-year, 6 hour Call-To-Repair Onsite for hardware	1-year, 6 hour Call-To-Repair Onsite for hardware
	(HR578E)	(HR583E)	(HR578E)
	1-year, 24x7 software phone support, software updates (HR577E)	1-year, 24x7 software phone support, software updates (HR582E)	1-year, 24x7 software phone support, software updates (HR577E)
	1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS658E)	1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS674E)	1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS658E)
	1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS659E)	1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS675E)	1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS659E)
	3-year, 24x7 software phone support, software	3-year, 24x7 software phone support, software	3-year, 24x7 software phone support, software
	updates + Next Business Day Hardware Exchange	updates + Next Business Day Hardware Exchange	updates + Next Business Day Hardware Exchange
	(HS660E)	(HS676E)	(HS660E)
	3-year, 24x7 software phone support, software	3-year, 24x7 software phone support, software	3-year, 24x7 software phone support, software
	updates + 4 hour Hardware Exchange (HS661E)	updates + 4 hour Hardware Exchange (HS677E)	updates + 4 hour Hardware Exchange (HS661E)

HP 5500-24G-4SFP HI Switch with 2 Interface Slots (JG311A)	HP 5500-48G-4SFP HI Switch with 2 Interface Slots (JG312A)	HP 5500-24G-PoE+-4SFP HI Switch with 2 Interface Slots (JG541A)
4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS662E)	4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS678E)	4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS662E)
4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS663E)	4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS679E)	4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS663E)
5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS664E)	5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS680E)	5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS664E)
5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS665E)	5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS681E)	5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS665E)
Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area please contact your local HP sales office.

	HP 5500-48G-PoE+-4SFP HI Switch with 2 Interface Slots (JG542A)	HP 5500-24G-SFP HI Switch with 2 Interface Slots (JG543A)
Ports	48 RJ-45 autosensing 10/100/1000 PoE+ ports; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	24 fixed Gigabit Ethernet SFP ports
	4 fixed Gigabit Ethernet SFP ports	4 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3 Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
	2 SFP+ 10GbE ports	
	2 port expansion module slots	2 SFP+ 10GbE ports
	1 RJ-45 serial console port	2 port expansion module slots
	1 RJ-45 out-of-band management port	1 RJ-45 serial console port
	Supports a maximum of 70 autosensing 100/1000 ports, with optional module	1 RJ-45 out-of-band management port
		Supports a maximum of 12 autosensing 10/100/1000 ports, with optional module
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)	2 power supply slots 1 minimum power supply required (ordered separately)
Physical characteristics		
Weight	17.32(w) x 18.11(d) x 1.72(h) in (43.99 x 46 x 4.37 cm) (1U height) 23.15 lb (10.5 kg)	. 17.32(w) x 14.17(d) x 1.72(h) in (43.99 x 35.99 x 4.37 cm) (1U height) 16.53 lb (7.5 kg)
Memory and processor	23.13 to (10.3 kg)	10.55 (d ().5 kg/
Hemory and processor	1 GB SDRAM, 512 MB flash; packet buffer size: 6 MB	1 GB SDRAM, 512 MB flash; packet buffer size: 3 MB
Mounting	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)
Performance		
1000 Mb Latency	< 5 µs	< 5 µs
10 Gb/s Latency	< 3 µs	< 3 µs
Throughput	up to 166.6 million pps	up to 130.9 million pps
Routing/Switching capacity	224 Gb/s	176 Gb/s
Routing table size	12000 entries (IPv4), 6000 entries (IPv6)	12000 entries (IPv4), 6000 entries (IPv6)
MAC address table size	32000 entries	32000 entries
Environment		
Operating temperature		
	32°F to 113°F (0°C to 45°C)	32°F to 122°F (0°C to 50°C)
Operating relative humidity	5% to 95%, noncondensing	5% to 95%, noncondensing
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Nonoperating/Storage relative humidity	-	5% to 95%, noncondensing
Acoustic	Low-speed fan: 43.1 dB, High-speed fan: 66.1 dB; ISO 7779	Low-speed fan: 48.3 dB, High-speed fan: 54.0 dB; ISO 7779
Electrical characteristics		
Frequency	50/60 Hz	50/60 Hz
Maximum heat dissipation	666 BTU/hr (702.63 kJ/hr)	460 BTU/hr (485.3 kJ/hr)
Maximum power rating	195 W	135 W
PoE power	1440 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. PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies. Device supports 1 or 2 internal modular power supplies. JG544A will supply 435 watts of PoE+ power per installed unit. JG545A will supply up to 800 watts of PoE+ power per installed unit.	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; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J; ROHS Compliance; AS/NZS 60950-1; GB 4943	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; FDA 21 CFR Subchapter J; ROHS Compliance; AS/NZS 60950-1; GB 4943
Emissions	EN 55022 Class A; CISPR 22 Class A; EN 55024; ICES-003 Class A; CISPR 24; AS/NZS CISPR 22 Class A; EN 61000-3-2; EN 61000-3-3; GB9254; VCCI-3 CLASS A; VCCI-4 CLASS A; ETSI EN 300 386; FCC Part 15 (CFR 47) CLASS A; YD/T993	EN 55022 Class A; CISPR 22 Class A; EN 55024; ICES-003 Class A; CISPR 24; AS/NZS CISPR 22 Class A; EN 61000-3-2; EN 61000-3-3; GB9254; VCCI-3 CLASS A; VCCI-4 CLASS A; ETSI EN 300 386; FCC Part 15 (CFR 47) CLASS A; YD/T993
Notes		8-port Gig-T and SFP modules (JG313A and JG314A) are supported only in slot 1 of this switch.
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (HQ080E)	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP 5500-48G-PoE+-4SFP HI Switch with 2 Interface Slots (JG542A)	HP 5500-24G-SFP HI Switch with 2 Interface Slots (JG543A)
3-year, 4-hour onsite, 24x7 coverage for hardware (HQ081E)	
3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and updates (HQ084E)	SW
3-year, 24x7 SW phone support, software updates (HQ083E)	
1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR580E)	
1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 softwar phone support (HR581E)	re
Installation with minimum configuration, system-based pricing (UW451E)	
4-year, 4-hour onsite, 13x5 coverage for hardware (HQ085E)	
4-year, 4-hour onsite, 24x7 coverage for hardware (HQ086E)	
4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ093	3E)
4-year, 24x7 SW phone support, software updates (HQ091E)	
5-year, 4-hour onsite, 13x5 coverage for hardware (HQ088E)	
5-year, 4-hour onsite, 24x7 coverage for hardware (HQ089E)	
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ094	4E)
5-year, 24x7 SW phone support, software updates (HQ092E)	
3 Yr 6 hr Call-to-Repair Onsite (HQ082E)	
4 Yr 6 hr Call-to-Repair Onsite (HQ087E)	
5 Yr 6 hr Call-to-Repair Onsite (HQ090E)	
1-year, 4-hour onsite, 13x5 coverage for hardware (HR579E)	
1-year, 6 hour Call-To-Repair Onsite for hardware (HR583E)	
1-year, 24x7 software phone support, software updates (HR582E)	
1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS674E)	
1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS675E)	
3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS676E)	
3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS677E)	
4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS678E)	
4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS679E)	
5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS680E)	
5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS681E)	
Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

Standards and Protocols

BGP	RFC 1657 Definitions of Managed Objects for BGPv4	RFC 1771 BGPv4 RFC 2385 BGP Session Protection via TCP MD5	RFC 2858 BGP-4 Multi-Protocol Extensions
Device management	RFC 1157 SNMPv1/v2c	RFC 2454 MIB for UDP6	RFC 3416 (SNMP Protocol Operations v2)
	RFC 1305 NTPv3	RFC 2573 (SNMPv3 Applications)	RFC 3417 (SNMP Transport Mappings)
	RFC 1901 (Community based SNMPv2)	RFC 2576 (Coexistence between SNMP V1, V2, V3)	HTML and telnet management
	RFC 2452 MIB for TCP6	RFC 2819 (RMON groups Alarm, Event, History and Statistics only)	Multiple Configuration Files SNMP v3 and RMON RFC support
		RFC 3410 (Management Framework)	
General protocols	IEEE 802.1ad Q-in-Q	RFC 1122 Host Requirements	RFC 3414 User-based Security Model (USM) for version of the Simple Network Management Protocol (SNMPv3)
	IEEE 802.1D MAC Bridges	RFC 1141 Incremental updating of the Internet checksum	RFC 3415 View-based Access Control Model (VACM) for
	IEEE 802.1p Priority	RFC 1213 Management Information Base for Network	the Simple Network Management Protocol (SNMP)
	IEEE 802.1Q (GVRP)	Management of TCP/IP-based internets	RFC 3417 Transport Mappings for the Simple Network
	IEEE 802.1w Rapid Reconfiguration of Spanning Tree	RFC 1256 ICMP Router Discovery Protocol (IRDP)	Management Protocol (SNMP)
	IEEE 802.3ab 1000BASE-T	RFC 1305 NTPv3	RFC 3484 Default Address Selection for Internet Protocol version 6 (IPv6)
	IEEE 802.3ad Link Aggregation (LAG)	RFC 1350 TFTP Protocol (revision 2)	RFC 3493 Basic Socket Interface Extensions for IPv6
	IEEE 802.3ae 10-Gigabit Ethernet	RFC 1519 CIDR	RFC 3542 Advanced Sockets Application Program
	IEEE 802.3af Power over Ethernet	RFC 1542 BOOTP Extensions	Interface (API) for IPv6
	IEEE 802.3at PoE+	RFC 1723 RIP v2	RFC 3587 IPv6 Global Unicast Address Format
	IEEE 802.3az Energy Efficient Ethernet	RFC 1812 IPv4 Routing	RFC 3596 DNS Extensions to Support IP Version 6
	IEEE 802.3i 10BASE-T	RFC 1887 An Architecture for IPv6 Unicast Address	RFC 3623 Graceful OSPF Restart
	IEEE 802.3u 100BASE-X	Allocation	RFC 3704 Unicast Reverse Path Forwarding (URPF)
	IEEE 802.3x Flow Control	RFC 2131 DHCP	RFC 3768 Virtual Router Redundancy Protocol (VRRP)
	IEEE 802.3z 1000BASE-X	RFC 2236 IGMP Snooping	RFC 3810 Multicast Listener Discovery Version 2
	RFC 768 UDP	RFC 2338 VRRP	(MLDv2) for IPv6
	RFC 791 IP	RFC 2375 IPv6 Multicast Address Assignments	RFC 4090 Fast Reroute Extensions to RSVP-TE for LSP
	RFC 792 ICMP	RFC 2616 Hypertext Transfer Protocol HTTP/1.1	Tunnels
	RFC 793 TCP	RFC 2644 Directed Broadcast Control	RFC 4113 Management Information Base for the User
	RFC 854 TELNET	RFC 2784 Generic Routing Encapsulation (GRE)	Datagram Protocol (UDP)
	RFC 925 Multi-LAN Address Resolution	RFC 2865 Remote Authentication Dial In User Service	RFC 4213 Basic IPv6 Transition Mechanisms
	RFC 950 Internet Standard Subnetting Procedure	(RADIUS)	RFC 4443 Internet Control Message Protocol (ICMPv6)
	RFC 951 BOOTP	RFC 2866 RADIUS Accounting	for the Internet Protocol Version 6 (IPv6) Specification
	RFC 1058 RIPv1	RFC 3209 RSVP-TE Extensions to RSVP for LSP Tunnels	RFC 4762 Virtual Private LAN Service (VPLS) Using Labe Distribution Protocol (LDP) Signaling
		RFC 3246 Expedited Forwarding PHB	802.1r - GARP Proprietary Attribute Registration
		RFC 3410 Applicability Statements for SNMP	Protocol (GPRP)
IP multicast	RFC 2236 IGMPv2	RFC 2858 Multiprotocol Extensions for BGP-4	RFC 3569 An Overview of Source-Specific Multicast (SSM)
	RFC 2710 Multicast Listener Discovery (MLD) for IPv6	RFC 3376 IGMPv3	RFC 3618 Multicast Source Discovery Protocol (MSDP)
			RFC 3973 PIM Dense Mode
Pv6	DEC 1001 IDuc Address Allegation Management	DEC 2464 Transmission of IDuC over Ethernot Networks	
IPV6	RFC 1881 IPv6 Address Allocation Management	RFC 2464 Transmission of IPv6 over Ethernet Networks	RFC 3315 DHCPv6 (client and relay)
	RFC 1887 IPv6 Unicast Address Allocation Architecture	RFC 2473 Generic Packet Tunneling in IPv6	RFC 3484 Default Address Selection for IPv6
	RFC 1981 IPv6 Path MTU Discovery	RFC 2475 IPv6 DiffServ Architecture	RFC 3493 Basic Socket Interface Extensions for IPv6
	RFC 2080 RIPng for IPv6	RFC 2710 Multicast Listener Discovery (MLD) for IPv6	RFC 3513 IPv6 Addressing Architecture
	RFC 2373 IPv6 Addressing Architecture	RFC 2740 OSPFv3 for IPv6	RFC 3542 Advanced Sockets API for IPv6
	RFC 2375 IPv6 Multicast Address Assignments	RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers	RFC 3587 IPv6 Global Unicast Address Format
	RFC 2460 IPv6 Specification	RFC 2925 Definitions of Managed Objects for Remote	RFC 3596 DNS Extension for IPv6
	RFC 2461 IPv6 Neighbor Discovery	Ping, Traceroute, and Lookup Operations (Ping only)	RFC 3810 MLDv2 for IPv6
	RFC 2462 IPv6 Stateless Address Auto-configuration	RFC 3162 RADIUS and IPv6	RFC 4113 MIB for UDP
	RFC 2463 ICMPv6	RFC 3306 Unicast-Prefix-based IPv6 Multicast Addresses	RFC 4443 ICMPv6
		RFC 3307 IPv6 Multicast Address Allocation	RFC 4541 IGMP & MLD Snooping Switch
MIBs	RFC 1212 Concise MIB Definitions	RFC 2233 Interface MIB	RFC 2618 RADIUS Authentication Client MIB
-	RFC 1213 MIB II	RFC 2452 IPV6-TCP-MIB	RFC 2620 RADIUS Accounting Client MIB
	RFC 1657 BGP-4 MIB	RFC 2454 IPV6-UDP-MIB	RFC 2787 VRRP MIB
	RFC 1724 RIPv2 MIB	RFC 2455 IPv6 MIB	RFC 2819 RMON MIB
		RFC 2465 IPV6 MIB RFC 2466 ICMPv6 MIB	
	RFC 1757 Remote Network Monitoring MIB	תרע באסס ונויוריס ויוום	RFC 2925 Ping MIB
		DEC 2E71 SNMD Erzmanuark MID	DEC 2/1/ SNMD-licer based SM MID
	RFC 1850 OSPFv2 MIB	RFC 2571 SNMP Framework MIB	RFC 3414 SNMP-User based-SM MIB
	RFC 1850 OSPFv2 MIB RFC 2012 SNMPv2 MIB for TCP RFC 2013 SNMPv2 MIB for UDP	RFC 2571 SNMP Framework MIB RFC 2572 SNMP-MPD MIB RFC 2573 SNMP-Target MIB	RFC 3414 SNMP-User based-SM MIB RFC 3415 SNMP-View based-ACM MIB RFC 4113 UDP MIB

Standards and Protocols (continued)

(applies to all	products in series)

Network management	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)	RFC 2373 Remote Network Monitoring Management Information Base for High Capacity Networks	RFC 2819 Remote Network Monitoring Management Information Base
	IEEE 802.1D (STP) RFC 1157 SNMPv1	RFC 2571 An Architecture for Describing SNMP Management Frameworks	RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations
	RFC 1212 Concise MIB definitions RFC 1215 Convention for defining traps for use with the	RFC 2572 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)	RFC 3176 sFlow RFC 3410 Introduction to Version 3 of the
	SNMP RFC 1757 RMON 4 groups: Stats, History, Alarms and	RFC 2573 SNMP Applications	Internet-standard Network Management Framework
	Events RFC 1901 SNMPv2 Introduction	RFC 2574 SNMPv3 User-based Security Model (USM) RFC 2575 SNMPv3 View-based Access Control Model	RFC 3414 SNMPv3 User-based Security Model (USM) RFC 3415 SNMPv3 View-based Access Control Model
	RFC 1918 Private Internet Address Allocation	(VACM) RFC 2576 Coexistence between SNMP versions	VACM) ANSI/TIA-1057 LLDP Media Endpoint Discovery
		RFC 2578 SMIv2	(LLDP-MED) SNMPv1/v2c/v3
		RFC 2581 TCP6	
DSPF		RFC 1587 OSPF NSSA	RFC 1850 OSPFv2 Management Information Base (MIB traps
QoS/CoS	IEEE 802.1P (CoS)	RFC 2474 DSCP DiffServ	RFC 2597 DiffServ Assured Forwarding (AF)
		RFC 2475 DiffServ Architecture	RFC 2598 DiffServ Expedited Forwarding (EF)
Security	IEEE 802.1X Port Based Network Access Control	RFC 1918 Address Allocation for Private Internets	Access Control Lists (ACLs)
	RFC 1492 TACACS+	RFC 2865 RADIUS Authentication RFC 2866 RADIUS Accounting	MAC Authentication Port Security

HP 5500 HI 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) HP 5500/4800 2-port GbE SFP Module (JD367A) HP 5500/5120 2-port 10GbE SFP+ Module (JD368B) HP 5500 HI 8-port Gig-T Module (JG313A) HP 5500 HI 8-port SFP Module (JG314A)

Transceivers

HP X125 1G SFP LC LH40 1310nm Transceiver (JD061A) HP X120 1G SFP LC LH40 1550nm Transceiver (JD062A) HP X125 1G SFP LC LH70 Transceiver (JD063B) HP X120 1G SFP RJ45 T Transceiver (JD089B) HP X110 100M SFP LC LH40 Transceiver (JD090A) HP X110 100M SFP LC LH80 Transceiver (JD091A) HP X130 10G SFP+ LC SR Transceiver (JD092B) HP X130 10G SFP+ LC LRM Transceiver (JD093B) HP X130 10G SFP+ LC LR Transceiver (JD094B) HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable (JD095C) HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable (JD096C) HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (JD097C) HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable (JG081C) HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable (JC784C) HP X120 1G SFP LC BX 10-U Transceiver (JD098B) HP X120 1G SFP LC BX 10-D Transceiver (JD099B) HP X110 100M SFP LC FX Transceiver (JD102B) HP X130 10G XFP LC LR Transceiver (JD108B) HP X130 10G XFP LC SR Transceiver (JD117B) HP X120 1G SFP LC SX Transceiver (JD118B) HP X110 100M SFP LC LX Transceiver (JD120B) HP X135 10G XFP LC ER Transceiver (JD121A) HP X110 100M SFP LC FX Dual Mode Transceiver (JD497A) HP X110 100M SFP LC LX10 Transceiver (JD498A) HP X120 1G SFP LC LX Transceiver (JD119B)

Cables

HP 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A) HP 1 m Multimode OM3 LC/LC Optical Cable (AJ834A) HP 2 m Multimode OM3 LC/LC Optical Cable (AJ835A) HP 5 m Multimode OM3 LC/LC Optical Cable (AJ836A) HP 15 m Multimode OM3 LC/LC Optical Cable (AJ837A) HP 30 m Multimode OM3 LC/LC Optical Cable (AJ838A) HP 50 m Multimode OM3 LC/LC Optical Cable (AJ839A) HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable (QK732A) HP 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) HP X230 Local Connect 50cm CX4 Cable (JD363B) HP X230 Local Connect 100cm CX4 Cable (JD364B) HP X230 CX4 to CX4 3m Cable (JD365A)

HP 5500-24G-4SFP HI Switch with 2 Interface Slots (JG311A)

HP 5800/5500 150W AC Power Supply (JD362A) HP 5800/5500 150W DC Power Supply (JD366A)

HP 5500-48G-4SFP HI Switch with 2 Interface Slots (JG312A)

HP 5800/5500 150W AC Power Supply (JD362A) HP 5800/5500 150W DC Power Supply (JD366A)

HP 5500-24G-PoE+-4SFP HI Switch with 2 Interface Slots (JG541A)

HP X362 720W 100-240VAC to 56VDC PoE Power Supply (JG544A) HP X362 1110W 115-240VAC to 56VDC PoE Power Supply (JG545A)

HP 5500-48G-PoE+-4SFP HI Switch with 2 Interface Slots (JG542A)

HP X362 720W 100-240VAC to 56VDC PoE Power Supply (JG544A) HP X362 1110W 115-240VAC to 56VDC PoE Power Supply (JG545A)

HP 5500-24G-SFP HI Switch with 2 Interface Slots (JG543A)

HP 5800/5500 150W AC Power Supply (JD362A) HP 5800/5500 150W DC Power Supply (JD366A)

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Solution



