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Data sheet

Product overview

These Gigabit Ethernet switches deliver outstanding security, reliability, and multiservice support capabilities for robust switching at the edge or aggregation layer of large enterprise and campus networks or in the core layer of SMB networks. The HP A5500 EI Switch Series is comprised of Layer 2/3 Gigabit Ethernet switches that can accommodate the most demanding applications and provide resilient and secure connectivity as well as the latest traffic prioritization technologies to enhance applications on convergent networks. With complete IPv4/IPv6 dual stack support, the series provides investment protection with an easy transition from IPv4 to IPv6 networks. Designed for increased flexibility, these switches are available with 24 or 48 Gigabit Ethernet ports. Power over Ethernet (PoE) and non-PoE models are available with optional GbE and 10 GbE expansion capability. The all-fiber model with dual power supplies is ideal for applications that require the highest availability.

Key features

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



Features and benefits

Quality of Service (QoS)

- **1. ? , ; , 6 ; { : ? ; w0. ? P6**allows limitation of broadcast, multicast, and unknown unicast traffic rate to cut down on unwanted broadcast traffic on the network
- **Wz : w, y { z6y w : : @ { ; { Cxw : { z6 g. i P6**classifies traffic using multiple match criteria based on Layer 2, 3, and 4 information; applies QoS policies such as setting priority level and rate limit to bi-directional selected traffic on a per-port, per-VLAN, or whole switch basis
- **f. ... { ; | ! 6 g. i 6 { { w ? ! ; { P6**creates traffic classes based on ACLs, IEEE 802.1p precedence, IP, DSCP or ToS precedence; supports filter, redirect, mirror, or remark; supports the following congestion actions: strict priority queuing (SP), weighted round robin (WRR), SP+WRR, weighted fair queuing (WFQ), and weighted random early discard (WRED)
- **j ; w || @ y6. . @ y0. } P6**supports Committed Access Rate (CAR) and line rate

Management

- **\;?{, z, 6. ;?6, w, {;P6** allow assignment of descriptive names to ports
- **h{, , ?{6y, |?} !;w?%, 6w, z6, w, w}{, {, ?P6** is available through a secure Web browser or a command-line interface (CLI)
- **c w, w}{;6w, z6. . {;w?%, 6. ;?:? { }{6 { : { :P** enable read-only (operator) and read-write (manager) access on CLI and Web browser management interfaces
- **Y, , , w, z6w! ?~. ;?, w?%, P6** leverages HWTACACS to link a custom list of CLI commands to an individual network administrator's login; also provides an audit trail
- **i {y! ;{6m {x6} k_P6** provides a secure, easy-to-use graphical interface for configuring the module via HTTPS
- **Z! w 6| w: ~6?, w}{;P6** provide independent primary and secondary operating system files for backup while upgrading
- **c ! ?%. {6y, |?} !;w?%, 6|? {;P6** can be stored to the flash image
- **Y, , . {?{6: {::?, 6. } }?P6** provides detailed information for problem identification and resolution
- **i d c f: G86: Hy86w, z6: I P6** facilitate centralized discovery, monitoring, and secure management of networking devices

- **h{, , ?{6, , , ?%, ;%, }%>h c e d?P**uses standard SNMP to monitor essential network functions; supports events, alarm, history, and statistics group plus a private alarm extension group
- **_[[[6NFHDGWX6b%, ...6bw, {;6Z%:y% : {; , 6f; , % y. >bbZ f?P**automated device discovery protocol provides easy mapping by network management applications
- **: \ , ...>h\Y6IGML?P**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
- **c w, w} {, {, % l bwdP**segments traffic to and from management interfaces, including CLI/telnet, a Web browser interface, and SNMP
- **h{, , ?{6_ , ?{ % } {, % c %; ; , % , }P**mirrors ingress/egress ACL-selected traffic from a switch port or VLAN to a local or remote switch port anywhere on the network
- **Z { : % y {6b%, ...6Z { ? {y?%, , 6f; , % y. >ZbZ f?P**monitors cable between two switches and shuts down the ports on both ends if the cable is broken, preventing network problems such as loops
- **_f : L6, w, w} {, {, ?P**future-proofs networking, as the switch is capable of being managed whether the attached network is run

- **e. 70. , w 6GF6] 0 } wx0?6 [? ~ { ; , { ?6. . ; ? : P6** allow the addition of 10 Gigabit Ethernet connections for uplinks or high-bandwidth server connections; flexibly supports XFP, SFP+, or CX4 local connections
- **^ 0 } ~ c z { , : 0 ? , 6. . ; ? 6 y. , , { y ? 0 : 0 ? , P6** provides up to 48 fixed 10/100/1000BASE-T or 24 SFP 100/1000BASE-X ports in a Layer 2/Layer 3 stackable switch supporting unique IRF stacking
- **_ [[[6NFHD l w | 6 f. ... { ; 6. : { ; 6 [? ~ { ; , { ? 6 > f. [? : ! . . . ; ? P6** 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
- **[? ~ { ; , { ? 6 e W c P6** provides a Layer 2 link performance and fault detection monitoring tool, which reduces failover and network convergence times
- **^ 0 } ~ C x w , z ... 0 z ? ~ 6 Y n J 6 w , z 6 i \ f A 6 . y w : ? w y ... 0 , } P6** provide 10 Gbps SPF+ or 12 Gbps CX4 local stacking cables; achieve a resilient stacking configuration

Performance

- **d. , x . y ... 0 , } 6 w ; y ~ 0 ? { y ? ! ; { ? P6** up to 192 Gbps nonblocking switching fabric provides wire-speed switching with up to 143 million pps throughput
- **^ w ; z ... w ; { C x w : { z 6 ... 0 ; { C : . { { z 6 w y y { : : 6 y. , ? ; . 0 : ? : 6 > W Y b : ? P6** feature-rich ACL implementation (TCAM based) helps ensure high levels of security and ease of administration without impacting network performance

Resiliency and high availability

- **i { . w ; w ? { 6 z w ? w 6 w , z 6 y. , ? ; . 6. w ? ~ : P6** keeps control separated from services and keeps service processing isolated; increases security and performance
- **[... ? { ; , w 6 ; { z ! , z w , ? 6. { ; 6 : ! . . , P6** provides high reliability
- **i , w ; ? 6 0 , ... P6** allows 50 ms failover between links
- **i. w , , 0 , } 6 j ; { { E c i j f 8 6 h i j f P6** provides redundant links while preventing network loops
- **h w . 0 z 6 h 0 , } 6 f ; . ? { y ? 0 , 6 f ; . ? . y. 6 > h h f f ? P** 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
- **l 0 ; ? ! w 6 h. ! ? { ; 6 h { z ! , z w , y , 6 f ; . ? . y. 6 > l h h f ? P6** allows a group of routers to dynamically back each other up to create highly available routed environments,

- **_ , ? { 0 } { , ? 6 h { : 0 0 { , ? 6 \ ; w , { ... , ; ... 6 > h \ ? P6** creates virtual resilient switching fabrics, where two or more switches perform as a single Layer 2 switch, Layer 3 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; simplifies network operation by eliminating the complexity of Spanning Tree, Equal-Cost Multipath (ECMP), or VRRP
- **_ f 6 \ w : ? 6 h { ; . ! ? { 6 > \ h h ? P6** forms backup paths and allows 50 ms switchover in case of a main path fault

Layer 2 switching

- **I H a 6 c W Y 6 w z z ; { : : { : P6** provide access to many Layer 2 devices
- **_ [[[6NFHD G w z 6 g 0 , g 6 w , z 6 i { { y ? 0 : { 6 g 0 , g P** increase the scalability of an Ethernet network by providing a hierarchical structure; connect multiple LANs on a high-speed campus or metro network
- **] W h f 6 l b W d 6 h { } 0 : ? ; w ? 0 , 6 f ; . ? . y. 6 >] l h f ? P** allows automatic learning and dynamic assignment of VLANs
- **_ [[[6NFHD G w z 6 g 0 , g P6** increases the scalability of an Ethernet network by providing a hierarchical structure; connects multiple LANs on a high-speed campus or metro network
- **GF6] x [6. . ; ? 6 w } ; { } w ? 0 , P6** allows grouping of ports to increase overall data throughput to a remote device
- **_] c f 6 w , z 6 c b Z 6 : , 0 , } P6** effectively control and manage the flooding of multicast packets in a Layer 2 network

Layer 3 services

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- **h.** **!**?{6, w. :P6provide more control during route redistribution; allow filtering and altering of route metrics

Layer 3 routing

- **_f : J6;** **!**?0. }6. ; **!**o y. :P6support static routes, RIP, OSPF, ISIS, and BGP
- **_f : L6;** **!**?0. }6. ; **!**o y. :P6provide routing of IPv6 at wire speed; support static routes, RIPv6, OSPFv3, IS-ISv6, and BGP4+ for IPv6
- **[. ! w CY. : ?6 c ! ?0. w?~6>[Y c f?P6enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth**
- **f. @y, Cxw: { z6;** **!**?0. }P6makes routing decisions based on policies set by the network administrator
- **_] c f : GB6 : HB6w, z6 : I** P6allow individual hosts to be registered on a particular VLAN
- **f_c c i i c B6f_c C Z c B6w, z6f_c c i c >|.** ; **6_f : J w, z6_f : L?** P6support IP Multicast address management and inhibition of DoS attacks
- **_f : L6? !, , { @, }** P6allows a smooth transition from IPv4 to IPv6 by encapsulating IPv6 traffic over an existing IPv4 infrastructure
- **k, @yw: ?6h{ : { ; : {6fw?~6\.** ; **...w; z@, }6> ! hf\?** P6is defined by RFC 3704 and limits erroneous or malicious traffic
- **X@z@; {y?@, , w 6\.** ; **...w; z@, }6Z{?{y?@, , 6>X\Z?** P6enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP, IS-IS, VRRP, and IRF

Security

- **Wyy{ : :6y. , ?;** **6 @:??6>WYb: ?P6provide IP Layer 2 to Layer 4 traffic filtering; support global ACL, VLAN ACL, port ACL, and IPv6 ACL**
- **_[[[6NFHDGnP6industry-standard method of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server**
- **c WYCxw: { z6w! ?~{, , ?@yw?@, ,** P6authenticates the client with the RADIUS server based on the client's MAC address
- **_z{, ?@?, Cz;@: {, 6: {y! ;@?, 6w, z6wyy{ : :6y. , ?;** **P**
 - **f { ; C! : { ; 6WYb: P** 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 risk to network security or unauthorized access to sensitive data
 - **W! ? , w?@y6 l bWd6w: :@}, , {, ?P** automatically assigns users to the appropriate VLAN based on their identities

- **i {y! ; {6, w, w} {, {, ?6wyy{ : :P6securely encrypts all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3**
- **i {y! ; {6\@ {6j;w. :| ;6f; @. y. 6>\j f?P6allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of switch configuration file**
- **] ! { : ?6 l bWdP6similar to IEEE 802.1X, it provides a browser-based environment to authenticated clients**
- **[, z. @, ?6Wz, @: :@, 6Z{ | {, : {6>[WZ?P6provides security policies to users accessing a network**
- **f. ; ?6: {y! ;@?, P6allows access only to specified MAC addresses, which can be learned or specified by the administrator**
- **f. ; ?6@: w?@, P6secures and adds privacy, and prevents malicious attackers from obtaining user information**
- **i j f6XfZk6. . ; ?6. ; ?{y?@, P6blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks**
- **i j f6h. @. ?6] ! w; zP6protects root bridge from malicious attack or configuration mistakes**
- **Z^Yf6. ; @. ?{y?@, P6blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks**
- **Z, , w, @y6Whf6. ; @. ?{y?@, P6blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data**
- **_f6: ! ; y{6} ! w; zP6helps prevent IP spoofing attacks**
- **hWZ_k i E^m jWYWy i P6eases switch management security administration by using a password authentication server**
- **c ! ?@. {6Y! : ? , { ; 6[z} {6> c Y[?P6facilitates MPLS VPN network integration with up to 64 VPNs support**
- **k, @yw: ?6h{ : { ; : {6fw?~6\.** ; **...w; z@, }6>khf\?** P6allows normal packets to be forwarded correctly, whereas the attaching packet will be discarded due to lack of reverse path route or incorrect inbound interface; prevents source spoofing and distributed attacks; supports distributed URPF

Convergence

- **[6NFHDGWX6b0, ...6bw, {;6Z0:y0 : {; ,6f;0 ?0 y0 >bbZ f?P6** is an automated device discovery protocol for easy mapping by network management applications
- **bbZ fC c [ZP6** is a standard extension that automatically configures network devices, including LLDP-capable IP phones
- **bbZ fCYZ f6y0 , . w?0x0 0? , P6** receives and recognizes CDP packets from Cisco's IP phones for seamless interoperation
- **[[6NFHD l w|6f0 ...{;60 : {;6[?~{; , {?P6** provides up to 15.4 W per port to PoE-powered devices such as IP phones, wireless access points, and video cameras
- **f0 [6w 0 yw?00 , : P6** support multiple methods (automatic, IEEE 802.3af class, LLDP-MED, or user specified) to allocate PoE power for more efficient energy savings
- **l0 0y{6 l bw d P6** automatically assigns VLAN and priority for IP phones, simplifying network configuration and maintenance
- **_f6, ! ?0yw: ?6:, 00 . 0, }6>zw?wCz;0: {, 6_] c f?P** automatically prevents flooding of IP multicast traffic
- **_ ? {; , { ?6] ;0 ! . 6 c w, w } { , {, ?6f;0 ?0 y0 >_] c f?P6** is used by IP hosts to establish and maintain multicast groups; supports v1, v2, and v3; utilizes Any-Source Multicast (ASM) or Source-Specific Multicast (SSM) to manage IPv4 multicast networks
- **f;0 ?0 y0 6_ z { . {, z {, ?6 c ! ?0yw: ?6>f_ c ?P6** is used for IPv4 and IPv6 multicast applications; supports PIM dense mode (DM), sparse mode (SM), and source-specific mode (SSM)
- **c ! ?0yw: ?6i0 ! ; y{6Z0:y0 : {; ,6f;0 ?0 y0 >c i Z f?P6** is used for inter-domain multicast applications, allowing multiple PIM-SM domains to interoperate
- **c ! ?0yw: ?6X0 ; z { ;6] w? { ...w, 6f;0 ?0 y0 6>c X] f?P** allows multicast traffic to be forwarded across BGP networks, separate from unicast traffic
- **c ! ?0yw: ?6 l bw d P6** allows multiple VLANs to receive the same IPv4 or IPv6 multicast traffic, reducing network bandwidth demand by eliminating multiple streams to each VLAN

Device support

- **Y0:y0 6. ; { : ?w, zw; z6f0 [6: ! . . 0 ; ?P6** detects and provides power to Cisco's prestandard PoE devices such as wireless LAN access points and IP phones

Additional information

- **] ; { {, 6_j6w, z6. 0 ...{ ; P6** use the latest advances in silicon development, shut off unused ports, and use variable-speed fans to improve power efficiency
- **] ; { {, 60, 0?0w?0: {6: ! . . 0 ; ?P6** provides support for RoHS and WEEE regulations

Warranty and support

- **b0|{ ?0, {6...w; ; w, ? , P6** for as long as you own the product with advance replacement and next-business-day delivery (available in most countries)*
- **[{y?;0 , 0y6w, z6? { { . ~0 , {6: ! . . 0 ; ?P6** limited electronic and telephone support is available from HP; refer to www.hp.com/networking/warranty for details on the support provided and the period during which support is available
- **i0 |?...w; {6; { {w: { : P6** refer to www.hp.com/networking/warranty for details on the software releases provided and the period during which software releases are available for your product(s)

*Hardware warranty replacement for as long as you own the product, with next business day advance replacement (available in most countries) with a five-year hardware warranty replacement for the disk drive included with HP AllianceONE Services zl Module, HP Threat Management Services zl Module, HP PCM+ Agent with AllianceONE Services zl Module, and HP E-MSM765 zl Mobility Controller. For details, refer to the HP Software License, Warranty, and Support booklet at www.hp.com/networking/warranty.

HP A5500 EI Switch Series

Specifications



HP A5500-24G EI Switch with 2 Interface Slots (JD377A)



HP A5500-24G DC EI Switch (JD373A)



HP A5500-24G-PoE EI Switch (JD378A)

Ports	24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP 2 port expansion module slots 1 RJ-45 serial console port Supports a maximum of 24 autosensing 10/100/1000 ports	24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP 2 port expansion module slots 1 RJ-45 serial console port Supports a maximum of 24 autosensing 10/100/1000 ports	24 RJ-45 autosensing 10/100/1000 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP 2 port expansion module slots 1 RJ-45 serial console port Supports a maximum of 24 autosensing 10/100/1000 ports
Physical characteristics			
Dimensions	11.81(d) x 17.32(w) x 1.72(h) in. (30 x 44 x 4.36 cm) (1U height)	11.81(d) x 17.32(w) x 1.72(h) in. (30 x 44 x 4.36 cm) (1U height)	16.54(d) x 17.32(w) x 1.72(h) in. (42 x 44 x 4.36 cm) (1U height)
Weight	8.82 lb. (4 kg)	8.82 lb. (4 kg)	13.23 lb. (6 kg)
Memory and processor	256 MB SDRAM, 32 MB flash; packet buffer size: 2 MB	256 MB SDRAM, 32 MB flash; packet buffer size: 2 MB	256 MB SDRAM, 32 MB flash; packet buffer size: 2 MB
Mounting	Mounts in an EIA standard 19-in. telco rack or equipment cabinet (hardware included)	Mounts in an EIA standard 19-in. telco rack or equipment cabinet (hardware included)	Mounts in an EIA standard 19-in. telco rack or equipment cabinet (hardware included)
Performance			
1000 Mb Latency	< 3.2 μ s	< 3.2 μ s	< 3.2 μ s
10 Gbps Latency	< 2.6 μ s	< 2.6 μ s	< 2.6 μ s
Throughput	107.2 million pps	107.2 million pps	107.2 million pps
Routing/Switching capacity	144 Gbps	144 Gbps	144 Gbps
Routing table size	12000 entries	12000 entries	12000 entries
Environment			
Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Operating relative humidity	10% to 90%, noncondensing	10% to 90%, noncondensing	10% to 90%, 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
Electrical characteristics			
Maximum heat dissipation	375 BTU/hr (395.63 kJ/hr)	358 BTU/hr (377.69 kJ/hr)	700 BTU/hr (738.5 kJ/hr)
Voltage	100-240 VAC		100-240 VAC
DC voltage		-48 to -60 VDC	-52 to -55 VDC
Maximum power rating	110 W	105 W	575 W
PoE power			370 W
Frequency	50 / 60 Hz	50 / 60 Hz	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.	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 power supplied by the internal power supply. It is dependent on the type and quantity of power supplies and may be supplemented with the use of an external power supply (EPS). With DC input, the maximum power consumption is 485 W (370 W for PoE).
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11; FDA 21 CFR Subchapter J; ROHS Compliance	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	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

HP A5500 EI Switch Series

Specifications (continued)

	HP A5500-24G EI Switch with 2 Interface Slots (JD377A)	HP A5500-24G DC EI Switch (JD373A)	HP A5500-24G-PoE EI Switch (JD378A)
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	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	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV870E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UV873E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UV876E) 3-year, 24x7 SW phone support, software updates (UV879E) Installation with minimum configuration, system-based pricing (UW451E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV871E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV874E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV877E) 4-year, 24x7 SW phone support, software updates (UV880E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV872E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV875E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV878E) 5-year, 24x7 SW phone support, software updates (UV881E) 3 Yr 6 hr Call-to-Repair Onsite (UW966E) 4 Yr 6 hr Call-to-Repair Onsite (UW967E) 5 Yr 6 hr Call-to-Repair Onsite (UW968E) 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.	3-year, 4-hour onsite, 13x5 coverage for hardware (UV870E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UV873E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UV876E) 3-year, 24x7 SW phone support, software updates (UV879E) Installation with minimum configuration, system-based pricing (UW451E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV871E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV874E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV877E) 4-year, 24x7 SW phone support, software updates (UV880E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV872E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV875E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV878E) 5-year, 24x7 SW phone support, software updates (UV881E) 3 Yr 6 hr Call-to-Repair Onsite (UW966E) 4 Yr 6 hr Call-to-Repair Onsite (UW967E) 5 Yr 6 hr Call-to-Repair Onsite (UW968E) 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.	3-year, 4-hour onsite, 13x5 coverage for hardware (UV870E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UV873E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UV876E) 3-year, 24x7 SW phone support, software updates (UV879E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV871E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV874E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV877E) 4-year, 24x7 SW phone support, software updates (UV880E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV872E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV875E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV878E) 5-year, 24x7 SW phone support, software updates (UV881E) 3 Yr 6 hr Call-to-Repair Onsite (UW966E) 4 Yr 6 hr Call-to-Repair Onsite (UW967E) 5 Yr 6 hr Call-to-Repair Onsite (UW968E) Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

HP A5500 EI Switch Series

Specifications (continued)

	HP A5500-24G EI Switch with 2 Interface Slots (JD377A)	HP A5500-24G DC EI Switch (JD373A)	HP A5500-24G-PoE EI Switch (JD378A)
i'w, zw; z:6w, z6, ;o ?o y6 : (applies to all products in series)	X] f RFC 1657 Definitions of Managed Objects for BGPv4 RFC 1771 BGPv4 RFC 2858 BGP-4 Multi-Protocol Extensions Z{ :!y{6, w, w}{, {, ? RFC 1157 SNMPv1/v2c RFC 1305 NTPv3 RFC 1901 (Community based SNMPv2) RFC 2452 MIB for TCP6 RFC 2454 MIB for UDP6 RFC 2573 (SNMPv3 Applications) RFC 2576 (Coexistence between SNMP V1, V2, V3) RFC 2819 RMON RFC 3410 (Management Framework) RFC 3416 (SNMP Protocol Operations v2) RFC 3417 (SNMP Transport Mappings) HTML and telnet management Multiple Configuration Files SNMP v3 and RMON RFC support SSHv1/SSHv2 Secure Shell] {, {;w 6, ;o ?o y6 : IEEE 802.1ad Q-in-Q IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q (GVRP) IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation (LAG) IEEE 802.3ae 10-Gigabit Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-X IEEE 802.3x Flow Control IEEE 802.3z 1000BASE-X RFC 768 UDP RFC 791 IP RFC 792 ICMP RFC 793 TCP RFC 854 TELNET RFC 925 Multi-LAN Address Resolution RFC 950 Internet Standard Subnetting Procedure RFC 951 BOOTP RFC 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 Allocation RFC 2131 DHCP RFC 2236 IGMP Snooping RFC 2338 VRRP RFC 2375 IPv6 Multicast Address Assignments RFC 2616 HTTP Compatibility v1.1 RFC 2644 Directed Broadcast Control RFC 2865 Remote Authentication Dial In User Service (RADIUS) RFC 2866 RADIUS Accounting RFC 3246 Expedited Forwarding PHB RFC 3410 Applicability Statements for SNMP RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3) RFC 3415 View-based Access Control Model	(VACM) for the Simple Network Management Protocol (SNMP) RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP) RFC 3484 Default Address Selection for Internet Protocol version 6 (IPv6) RFC 3493 Basic Socket Interface Extensions for IPv6 RFC 3542 Advanced Sockets Application Program Interface (API) for IPv6 RFC 3587 IPv6 Global Unicast Address Format RFC 3596 DNS Extensions to Support IP Version 6 RFC 3623 Graceful OSPF Restart RFC 3704 Unicast Reverse Path Forwarding (URPF) RFC 3768 VRRP RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6 RFC 4113 Management Information Base for the User Datagram Protocol (UDP) RFC 4213 Basic IPv6 Transition Mechanisms RFC 4443 Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification 802.1r - GARP Proprietary Attribute Registration Protocol (GPRP) _f6, ! ?yw:? RFC 2236 IGMPv2 RFC 2710 Multicast Listener Discovery (MLD) for IPv6 RFC 2858 Multiprotocol Extensions for BGP-4 RFC 3376 IGMPv3 RFC 3569 An Overview of Source-Specific Multicast (SSM) RFC 3618 Multicast Source Discovery Protocol (MSDP) RFC 3973 PIM Dense Mode _f:L RFC 1881 IPv6 Address Allocation Management RFC 1887 IPv6 Unicast Address Allocation Architecture RFC 1981 IPv6 Path MTU Discovery RFC 2080 RIPng for IPv6 RFC 2373 IPv6 Addressing Architecture RFC 2375 IPv6 Multicast Address Assignments RFC 2460 IPv6 Specification RFC 2461 IPv6 Neighbor Discovery RFC 2462 IPv6 Stateless Address Auto-configuration RFC 2463 ICMPv6 RFC 2464 Transmission of IPv6 over Ethernet Networks RFC 2475 IPv6 DiffServ Architecture RFC 2710 Multicast Listener Discovery (MLD) for IPv6 RFC 2740 OSPFv3 for IPv6 RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only) RFC 2925 Remote Operations MIB (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 3307 IPv6 Multicast Address Allocation RFC 3315 DHCPv6 (client and relay) RFC 3484 Default Address Selection for IPv6 RFC 3493 Basic Socket Interface Extensions for IPv6 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 c_X: RFC 1212 Concise MIB Definitions RFC 1213 MIB II RFC 1657 BGP-4 MIB RFC 1724 RIPv2 MIB RFC 1757 Remote Network Monitoring MIB RFC 1850 OSPFv2 MIB RFC 2012 SNMPv2 MIB for TCP RFC 2013 SNMPv2 MIB for UDP RFC 2233 Interface MIB RFC 2452 IPV6-TCP-MIB RFC 2454 IPV6-UDP-MIB RFC 2465 IPV6 MIB RFC 2466 ICMPv6 MIB RFC 2571 SNMP Framework MIB RFC 2572 SNMP-MPD MIB RFC 2573 SNMP-Target MIB RFC 2574 SNMP USM MIB RFC 2618 RADIUS Authentication Client MIB RFC 2620 RADIUS Accounting Client MIB RFC 2787 VRRP MIB RFC 2819 RMON MIB RFC 2925 Ping MIB RFC 3414 SNMP-User based-SM MIB RFC 3415 SNMP-View based-ACM MIB RFC 4113 UDP MIB d{ '?... ;~6, w, w}{, {, ? IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.1D (STP) RFC 1157 SNMPv1 RFC 1212 Concise MIB definitions RFC 1215 SNMP Generic traps RFC 1757 RMON 4 groups: Stats, History, Alarms and Events RFC 1901 SNMPv2 Introduction RFC 1918 Private Internet Address Allocation RFC 2373 Remote Network Monitoring Management Information Base for High Capacity Networks RFC 2571 An Architecture for Describing SNMP Management Frameworks RFC 2572 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP) RFC 2573 SNMP Applications RFC 2574 SNMPv3 User-based Security Model (USM) RFC 2575 SNMPv3 View-based Access Control Model (VACM) RFC 2576 Coexistence between SNMP versions RFC 2578 SMIv2 RFC 2581 TCP6 RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations RFC 3176 sFlow RFC 3410 Introduction to Version 3 of the Internet-standard Network Management Framework RFC 3414 SNMPv3 User-based Security Model (USM) RFC 3415 SNMPv3 View-based Access Control Model (VACM) ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3 e i f\ RFC 1587 OSPF NSSA RFC 1850 OSPFv2 Management Information Base (MIB), traps RFC 2328 OSPFv2

HP A5500 EI Switch Series

Specifications (continued)

	HP A5500-24G EI Switch with 2 Interface Slots (JD377A)	HP A5500-24G DC EI Switch (JD373A)	HP A5500-24G-PoE EI Switch (JD378A)
i?w, zw; z:6w, z6, ;o ?o y, :	g, iEY, i IEEE 802.1P (CoS) RFC 2474 DSCP DiffServ RFC 2475 DiffServ Architecture RFC 2597 DiffServ Assured Forwarding (AF) RFC 2598 DiffServ Expedited Forwarding (EF)	i{y! ;8?, 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

HP A5500 EI Switch Series

Specifications (continued)



HP A5500-48G EI Switch with 2 Interface Slots (JD375A)



HP A5500-48G-PoE EI Switch (JD376A)

Ports	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP 2 port expansion module slots 1 RJ-45 serial console port Supports a maximum of 48 autosensing 10/100/1000 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 802.3af PoE); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP 2 port expansion module slots 1 RJ-45 serial console port Supports a maximum of 48 autosensing 10/100/1000 ports
Physical characteristics		
Dimensions	11.81(d) x 17.32(w) x 1.72(h) in. (30 x 44 x 4.36 cm) (1U height)	16.54(d) x 17.32(w) x 1.72(h) in. (42 x 44 x 4.36 cm) (1U height)
Weight	9.92 lb. (4.5 kg)	14.33 lb. (6.5 kg)
Memory and processor	256 MB SDRAM, 32 MB flash; packet buffer size: 4 MB	256 MB SDRAM, 32 MB flash; packet buffer size: 4 MB
Mounting	Mounts in an EIA standard 19-in. telco rack or equipment cabinet (hardware included)	Mounts in an EIA standard 19-in. telco rack or equipment cabinet (hardware included)
Performance		
1000 Mb Latency	< 3.2 μ s	< 3.2 μ s
10 Gbps Latency	< 2.6 μ s	< 2.6 μ s
Throughput	142.9 million pps	142.9 million pps
Routing/Switching capacity	192 Gbps	192 Gbps
Routing table size	12000 entries	12000 entries
Environment		
Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Operating relative humidity	10% to 90%, noncondensing	10% to 90%, 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	5% to 95%, noncondensing
Electrical characteristics		
Maximum heat dissipation	392 BTU/hr (413.56 kJ/hr)	921 BTU/hr (971.66 kJ/hr)
Voltage	100-240 VAC	100-240 VAC
DC voltage		-52 to -55 VDC
Maximum power rating	115 W	910 W
PoE power		740 W
Frequency	50 / 60 Hz	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.	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. PoE power is the power supplied by the internal power supply. It is dependent on the type and quantity of power supplies and may be supplemented with the use of an external power supply (EPS). With AC input, the maximum power consumption is 640 W (370 W for PoE).
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11; FDA 21 CFR Subchapter J; ROHS Compliance	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	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB

HP A5500 EI Switch Series

Specifications (continued)

	HP A5500-48G EI Switch with 2 Interface Slots (JD375A)	HP A5500-48G-PoE EI Switch (JD376A)
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV870E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UV873E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UV876E) 3-year, 24x7 SW phone support, software updates (UV879E) Installation with minimum configuration, system-based pricing (UW451E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV871E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV874E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV877E) 4-year, 24x7 SW phone support, software updates (UV880E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV872E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV875E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV878E) 5-year, 24x7 SW phone support, software updates (UV881E) 3 Yr 6 hr Call-to-Repair Onsite (UW966E) 4 Yr 6 hr Call-to-Repair Onsite (UW967E) 5 Yr 6 hr Call-to-Repair Onsite (UW968E) 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.	3-year, 4-hour onsite, 13x5 coverage for hardware (UV870E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UV873E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UV876E) 3-year, 24x7 SW phone support, software updates (UV879E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV871E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV874E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV877E) 4-year, 24x7 SW phone support, software updates (UV880E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV872E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV875E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV878E) 5-year, 24x7 SW phone support, software updates (UV881E) 3 Yr 6 hr Call-to-Repair Onsite (UW966E) 4 Yr 6 hr Call-to-Repair Onsite (UW967E) 5 Yr 6 hr Call-to-Repair Onsite (UW968E) Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Specifications (continued)

HP A5500-48G EI Switch with 2 Interface Slots (JD375A)	HP A5500-48G-PoE EI Switch (JD376A)
i: w, z w; z: 6 w, z 6, i: 6 y, : (applies to all products in series) X] f RFC 1657 Definitions of Managed Objects for BGPv4 RFC 1771 BGPv4 RFC 2858 BGP-4 Multi-Protocol Extensions Z{ : y{ 6, w, w }{ }, {, ? RFC 1157 SNMPv1/v2c RFC 1305 NTPv3 RFC 1901 (Community based SNMPv2) RFC 2452 MIB for TCP6 RFC 2454 MIB for UDP6 RFC 2573 (SNMPv3 Applications) RFC 2576 (Coexistence between SNMP V1, V2, V3) RFC 2819 RMON RFC 3410 (Management Framework) RFC 3416 (SNMP Protocol Operations v2) RFC 3417 (SNMP Transport Mappings) HTML and telnet management Multiple Configuration Files SNMP v3 and RMON RFC support SSHv1/SSHv2 Secure Shell] {, { : w 6, i: 6 y, : IEEE 802.1ad Q-in-Q IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q (GVRP) IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation (LAG) IEEE 802.3ae 10-Gigabit Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-X IEEE 802.3x Flow Control IEEE 802.3z 1000BASE-X RFC 768 UDP RFC 791 IP RFC 792 ICMP RFC 793 TCP RFC 854 TELNET RFC 925 Multi-LAN Address Resolution RFC 950 Internet Standard Subnetting Procedure RFC 951 BOOTP RFC 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 Allocation RFC 2131 DHCP RFC 2236 IGMP Snooping RFC 2338 VRRP RFC 2375 IPv6 Multicast Address Assignments RFC 2616 HTTP Compatibility v1.1 RFC 2644 Directed Broadcast Control RFC 2865 Remote Authentication Dial In User Service (RADIUS) RFC 2866 RADIUS Accounting RFC 3246 Expedited Forwarding PHB RFC 3410 Applicability Statements for SNMP RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3) RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management	Protocol (SNMP) RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP) RFC 3484 Default Address Selection for Internet Protocol version 6 (IPv6) RFC 3493 Basic Socket Interface Extensions for IPv6 RFC 3542 Advanced Sockets Application Program Interface (API) for IPv6 RFC 3587 IPv6 Global Unicast Address Format RFC 3596 DNS Extensions to Support IP Version 6 RFC 3623 Graceful OSPF Restart RFC 3704 Unicast Reverse Path Forwarding (URPF) RFC 3768 VRRP RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6 RFC 4113 Management Information Base for the User Datagram Protocol (UDP) RFC 4213 Basic IPv6 Transition Mechanisms RFC 4443 Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification 802.1r - GARP Proprietary Attribute Registration Protocol (GPRP) f 6, ! 6 y w: ? RFC 2236 IGMPv2 RFC 2710 Multicast Listener Discovery (MLD) for IPv6 RFC 2858 Multiprotocol Extensions for BGP-4 RFC 3376 IGMPv3 RFC 3569 An Overview of Source-Specific Multicast (SSM) RFC 3618 Multicast Source Discovery Protocol (MSDP) RFC 3973 PIM Dense Mode f: L RFC 1881 IPv6 Address Allocation Management RFC 1887 IPv6 Unicast Address Allocation Architecture RFC 1981 IPv6 Path MTU Discovery RFC 2080 RIPng for IPv6 RFC 2373 IPv6 Addressing Architecture RFC 2375 IPv6 Multicast Address Assignments RFC 2460 IPv6 Specification RFC 2461 IPv6 Neighbor Discovery RFC 2462 IPv6 Stateless Address Auto-configuration RFC 2463 ICMPv6 RFC 2464 Transmission of IPv6 over Ethernet Networks RFC 2475 IPv6 DiffServ Architecture RFC 2710 Multicast Listener Discovery (MLD) for IPv6 RFC 2740 OSPFv3 for IPv6 RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only) RFC 2925 Remote Operations MIB (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 3307 IPv6 Multicast Address Allocation RFC 3315 DHCPv6 (client and relay) RFC 3484 Default Address Selection for IPv6 RFC 3493 Basic Socket Interface Extensions for IPv6 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
	c X: RFC 1212 Concise MIB Definitions RFC 1213 MIB II RFC 1657 BGP-4 MIB RFC 1724 RIPv2 MIB RFC 1757 Remote Network Monitoring MIB RFC 1850 OSPFv2 MIB RFC 2012 SNMPv2 MIB for TCP RFC 2013 SNMPv2 MIB for UDP RFC 2233 Interface MIB RFC 2452 IPV6-TCP-MIB RFC 2454 IPV6-UDP-MIB RFC 2465 IPV6 MIB RFC 2466 ICMPv6 MIB RFC 2571 SNMP Framework MIB RFC 2572 SNMP-MPD MIB RFC 2573 SNMP-Target MIB RFC 2574 SNMP USM MIB RFC 2618 RADIUS Authentication Client MIB RFC 2620 RADIUS Accounting Client MIB RFC 2787 VRRP MIB RFC 2819 RMON MIB RFC 2925 Ping MIB RFC 3414 SNMP-User based-SM MIB RFC 3415 SNMP-View based-ACM MIB RFC 4113 UDP MIB d { : ... 6, w, w }{ }, {, ? IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.1D (STP) RFC 1157 SNMPv1 RFC 1212 Concise MIB definitions RFC 1215 SNMP Generic traps RFC 1757 RMON 4 groups: Stats, History, Alarms and Events RFC 1901 SNMPv2 Introduction RFC 1918 Private Internet Address Allocation RFC 2373 Remote Network Monitoring Management Information Base for High Capacity Networks RFC 2571 An Architecture for Describing SNMP Management Frameworks RFC 2572 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP) RFC 2573 SNMP Applications RFC 2574 SNMPv3 User-based Security Model (USM) RFC 2575 SNMPv3 View-based Access Control Model (VACM) RFC 2576 Coexistence between SNMP versions RFC 2578 SMIv2 RFC 2581 TCP6 RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations RFC 3176 sFlow RFC 3410 Introduction to Version 3 of the Internet-standard Network Management Framework RFC 3414 SNMPv3 User-based Security Model (USM) RFC 3415 SNMPv3 View-based Access Control Model (VACM) ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3 e i f RFC 1587 OSPF NSSA RFC 1850 OSPFv2 Management Information Base (MIB), traps RFC 2328 OSPFv2 RFC 3623 Graceful OSPF Restart g, i EY, i

HP A5500 EI Switch Series

Specifications (continued)

	HP A5500-48G EI Switch with 2 Interface Slots (JD375A)	HP A5500-48G-PoE EI Switch (JD376A)
i?w, zw;z:6w, z6, ;a ?a y, : (applies to all products in series)	RFC 2475 DiffServ Architecture RFC 2597 DiffServ Assured Forwarding (AF) RFC 2598 DiffServ Expedited Forwarding (EF) i{y!;8, 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

HP A5500 EI Switch Series

Specifications (continued)



HP A5500-24G-SFP EI Switch with 2 Interface Slots (JD374A)



HP A5500-24G-SFP DC EI Switch (JD379A)

Ports	24 fixed Gigabit Ethernet SFP ports 8 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP 2 port expansion module slots 1 RJ-45 serial console port	24 fixed Gigabit Ethernet SFP ports 8 dual-personality ports; auto-sensing 10/100/1000Base-T or SFP 2 port expansion module slots 1 RJ-45 serial console port
Physical characteristics		
Dimensions	14.17(d) x 17.32(w) x 1.72(h) in. (36 x 44 x 4.36 cm) (1U height)	14.17(d) x 17.32(w) x 1.72(h) in. (36 x 44 x 4.36 cm) (1U height)
Weight	13.89 lb. (6.3 kg)	13.89 lb. (6.3 kg)
Memory and processor	256 MB SDRAM, 32 MB flash; packet buffer size: 2 MB	256 MB SDRAM, 32 MB flash; packet buffer size: 2 MB
Mounting	Mounts in an EIA standard 19-in. telco rack or equipment cabinet (hardware included)	Mounts in an EIA standard 19-in. telco rack or equipment cabinet (hardware included)
Performance		
1000 Mb Latency	< 3.2 μ s	< 3.2 μ s
10 Gbps Latency	< 2.6 μ s	< 2.6 μ s
Throughput	107.2 million pps	107.2 million pps
Routing/Switching capacity	144 Gbps	144 Gbps
Routing table size	12000 entries	12000 entries
Environment		
Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Operating relative humidity	10% to 90%, noncondensing	10% to 90%, noncondensing
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-58°F to 158°F (-50°C to 70°C)
Nonoperating/Storage relative humidity	5% to 95%, noncondensing	5% to 95%, noncondensing
Electrical characteristics		
Maximum heat dissipation	392 BTU/hr (413.56 kJ/hr)	392 BTU/hr (413.56 kJ/hr)
Voltage	100-240 VAC	
DC voltage		-48 to -60 VDC
Maximum power rating	115 W	115 W
Frequency	50 / 60 Hz	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.	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	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	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001+A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; IEEE 802.3 Ethernet MIB
Notes	1 power supply included	

Specifications (continued)

	HP A5500-24G-SFP EI Switch with 2 Interface Slots (JD374A)	HP A5500-24G-SFP DC EI Switch (JD379A)
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV870E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UV873E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UV876E) 3-year, 24x7 SW phone support, software updates (UV879E) Installation with minimum configuration, system-based pricing (UW451E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV871E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV874E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV877E) 4-year, 24x7 SW phone support, software updates (UV880E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV872E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV875E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV878E) 5-year, 24x7 SW phone support, software updates (UV881E) 3 Yr 6 hr Call-to-Repair Onsite (UW966E) 4 Yr 6 hr Call-to-Repair Onsite (UW967E) 5 Yr 6 hr Call-to-Repair Onsite (UW968E)	

HP A5500 EI Switch Series

Specifications (continued)

HP A5500-24G-SFP EI Switch with 2 Interface Slots (JD374A)		HP A5500-24G-SFP DC EI Switch (JD379A)	
i: w, z w; z: 6 w, z 6, i: 6 y, : (applies to all products in series)	X] f RFC 1657 Definitions of Managed Objects for BGPv4 RFC 1771 BGPv4 RFC 2858 BGP-4 Multi-Protocol Extensions	Protocol (SNMP) RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP) RFC 3484 Default Address Selection for Internet Protocol version 6 (IPv6) RFC 3493 Basic Socket Interface Extensions for IPv6 RFC 3542 Advanced Sockets Application Program Interface (API) for IPv6 RFC 3587 IPv6 Global Unicast Address Format RFC 3596 DNS Extensions to Support IP Version 6 RFC 3623 Graceful OSPF Restart RFC 3704 Unicast Reverse Path Forwarding (URPF) RFC 3768 VRRP RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6 RFC 4113 Management Information Base for the User Datagram Protocol (UDP) RFC 4213 Basic IPv6 Transition Mechanisms RFC 4443 Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification 802.1r - GARP Proprietary Attribute Registration Protocol (GPRP)	c. X: RFC 1212 Concise MIB Definitions RFC 1213 MIB II RFC 1657 BGP-4 MIB RFC 1724 RIPv2 MIB RFC 1757 Remote Network Monitoring MIB RFC 1850 OSPFv2 MIB RFC 2012 SNMPv2 MIB for TCP RFC 2013 SNMPv2 MIB for UDP RFC 2233 Interface MIB RFC 2452 IPV6-TCP-MIB RFC 2454 IPV6-UDP-MIB RFC 2465 IPV6 MIB RFC 2466 ICMPv6 MIB RFC 2571 SNMP Framework MIB RFC 2572 SNMP-MPD MIB RFC 2573 SNMP-Target MIB RFC 2574 SNMP USM MIB RFC 2618 RADIUS Authentication Client MIB RFC 2620 RADIUS Accounting Client MIB RFC 2787 VRRP MIB RFC 2819 RMON MIB RFC 2925 Ping MIB RFC 3414 SNMP-User based-SM MIB RFC 3415 SNMP-View based-ACM MIB RFC 4113 UDP MIB
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HP A5500 EI Switch Series

Specifications (continued)

	HP A5500-24G-SFP EI Switch with 2 Interface Slots (JD374A)	HP A5500-24G-SFP DC EI Switch (JD379A)	
i?w, zw;z:6w, z6, ;a ?a y, : (applies to all products in series)	RFC 2475 DiffServ Architecture RFC 2597 DiffServ Assured Forwarding (AF) RFC 2598 DiffServ Expedited Forwarding (EF) i {y!;®, 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

HP A5500 EI Switch Series accessories

Modules

HP A5500/A5120-EI 2-port 10-GbE XFP Module (JD359B)
HP A5500/A5120-EI 2-port 10-GbE CX4 Module (JD360B)
HP A5500/A5120-EI 1-port 10-GbE XFP Module (JD361B)
HP A5500/A5120-EI 2-Port GbE SFP Module (JD367A)
HP A5500/A5120-EI 2-port 10-GbE SFP+ Module (JD368B)

Transceivers

HP X124 1G SFP LC LH40 1310nm Transceiver (JD061A)
HP X120 1G SFP LC LH40 1550nm Transceiver (JD062A)
HP X125 1G SFP LC LH70 Transceiver (JD063B)
HP X110 100M SFP LC LH40 Transceiver (JD090A)
HP X110 100M SFP LC LH80 Transceiver (JD091A)
HP X130 SFP+ LC SR Transceiver (JD092B)
HP X130 SFP+ LC LRM Transceiver (JD093B)
HP X130 SFP+ LC LR Transceiver (JD094B)
HP X120 1G SFP LC BX 10-U Transceiver (JD098B)
HP X120 1G SFP LC BX 10-D Transceiver (JD099B)
HP X110 100M SFP LC FX Transceiver (JD102B)
HP X130 10G XFP SC LR Transceiver (JD108B)
HP X130 10G XFP LC SR Transceiver (JD117B)
HP X120 1G SFP LC SX Transceiver (JD118B)
HP X120 1G SFP LC LX Transceiver (JD119B)
HP X110 100M SFP LC LX Transceiver (JD120B)
HP X135 10G XFP LC ER Transceiver (JD121A)
HP X240 SFP+ SFP+ 0.65 m Direct Attach Cable (JD095B)
HP X240 SFP+ SFP+ 1.2 m Direct Attach Cable (JD096B)
HP X240 SFP+ SFP+ 3 m Direct Attach Cable (JD097B)
HP X110 100M SFP LC FX Dual Mode Transceiver (JD497A)
HP X110 100M SFP LC LX Dual Mode Transceiver (JD498A)

Cables

HP X230 Local Connect 100 cm CX4 Cable (JD364B)
HP X230 Local Connect CX4 300 cm Cable (JD365A)
HP 0.5 m Multimode OM3 LC/LC Optical Cable (AJ833A)
HP 1 m Multimode OM3 LC/LC Optical Cable (AJ834A)
HP 2 m Multimode OM3 LC/LC Optical Cable (AJ835A)
HP 5 m Multimode OM3 LC/LC Optical Cable (AJ836A)

HP 15 m Multimode OM3 LC/LC Optical Cable (AJ837A)
HP 30 m Multimode OM3 LC/LC Optical Cable (AJ838A)
HP 50 m Multimode OM3 LC/LC Optical Cable (AJ839A)
d [m] HP 0.5 m PremierFlex OM3+ LC/LC Optical Cable (BK837A)
d [m] HP 1 m PremierFlex OM3+ LC/LC Optical Cable (BK838A)
d [m] HP 2 m PremierFlex OM3+ LC/LC Optical Cable (BK839A)
d [m] HP 5 m PremierFlex OM3+ LC/LC Optical Cable (BK840A)
d [m] HP 15 m PremierFlex OM3+ LC/LC Optical Cable (BK841A)
d [m] HP 30 m PremierFlex OM3+ LC/LC Optical Cable (BK842A)
d [m] HP 50 m PremierFlex OM3+ LC/LC Optical Cable (BK843A)
HP X230 Local Connect 50cm CX4 Cable (JD363B)

Power Supply

HP A5800/A5500 150W AC Power Supply (JD362A)
HP A5800/A5500 150W DC Power Supply (JD366A)
HP A-RPS800 Redundant Power System (JD183A)
HP A-RPS1600 Redundant Power System (JG136A)
HP A-RPS1600 1600W AC Power Supply (JG137A)

Power cords

HP X290 JD5 JD5 2m RPS1600 Cable (JD187A)
HP X290 JD5-A JD5-A 2m RPS1600 Cable (JD188A)
HP X290 JD5 JD5-A 2m RPS1600 Cable (JD189A)
HP X290 H2.7 H2.7 1m RPS800 Cable with ferrite core (JD190A)
HP X290 H2.7 JD5 1m RPS800 Cable (JD185A)

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