

HP A5120 SI Switch Series

Data sheet

Product overview

The HP A5120 SI Switch Series are intelligent, manageable Gigabit Ethernet switches that provide high performance, high-density port access, and simplified installation to maximize the value of your network infrastructure investment. They are typically deployed at the access layer in enterprise networks that require Gigabit Ethernet to the desktop or at the distribution layer in metropolitan area networks (MANs). Wire-speed forwarding delivers optimal throughput and the bandwidth necessary for mission-critical data and high-speed communications. As part of their comprehensive security control, they employ 802.1X authentication to identify users who attempt to access the network. These switches are highly reliable, providing redundancy while eliminating loops in the network. They also offer a range of management protocols to simplify network administration.

Key features

- Full wire-speed, multi-layer switching
- High reliability with redundancy
- Comprehensive security control policies
- Diversified Quality of Service (QoS) policies
- Excellent manageability



Features and benefits

Quality of Service (QoS)

- Broadcast control: allows limitation of broadcast traffic rate to cut down on unwanted broadcast traffic on the network
- Powerful QoS feature: supports the following congestion actions: strict priority (SP) queuing, SDWRR, and SP+SDWRR
- 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 basis

Management

- Friendly port names: allow assignment of descriptive names to ports
- Remote configuration and management: is available through a secure Web browser or a command-line interface (CLI)
- Manager and operator privilege levels: enable read-only (operator) and read-write (manager) access on CLI and Web browser management interfaces
- **Command authorization:** leverages RADIUS to link a custom list of CLI commands to an individual network administrator's login; also provides an audit trail
- Secure Web GUI: provides a secure, easy-to-use graphical interface for configuring the module via HTTPS
- Dual flash images: provide independent primary and secondary operating system files for backup while upgrading
- Multiple configuration files: can be stored to the flash image
- Complete session logging: provides detailed information for problem identification and resolution
- SNMPv1, v2c, and v3: facilitate centralized discovery, monitoring, and secure management of networking devices
- Remote monitoring (RMON): uses standard SNMP to monitor essential network functions; supports events, alarm, history, and statistics group plus a private alarm extension group

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP): automated device discovery protocol provides easy mapping by network management applications
- Management VLAN: segments traffic to and from management interfaces, including CLI/telnet, a Web browser interface, and SNMP
- Device Link Detection Protocol (DLDP): monitors cable between two switches and shuts down the ports on both ends if the cable is broken, this prevents network problems such as loops

Connectivity

- Auto-MDIX: automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports
- Flow control: using standard IEEE 802.3x, it provides back pressure to reduce congestion in heavy traffic situations
- Jumbo packet support: supports up to 10k byte frame size to improve performance of large data transfers
- **High-density port connectivity:** provides up to 48 fixed 10/100/1000BASE-T ports in an entry-level static Layer 3 switch
- Ethernet OAM: provides a Layer 2 link performance and fault detection monitoring tool, which reduces failover and network convergence times
- Power over Ethernet Plus (PoE+) support: simplifies deployment and dramatically reduces installation costs by helping to eliminate the time and cost involved in supplying local power at each access point location

Performance

- Nonblocking architecture: up to 104 Gbps nonblocking switching fabric provides wire-speed switching with up to 77.4 million pps throughput
- Hardware-based wire-speed access control lists (ACLs): feature-rich ACL implementation (TCAM based) helps ensure high levels of security and ease of administration without impacting network performance

Resiliency and high availability

- Separate data and control paths: increases security and performance
- **Spanning Tree/MSTP, RSTP:** provides redundant links while preventing network loops

- IEEE 802.3ad Link Aggregation Control Protocol (LACP): supports up to 26 trunks, each with 8 links per trunk; supports static or dynamic groups
- Smart link: allows 50 ms failover between links
- Intelligent Resilient Framework (IRF): 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

Layer 2 switching

- 8K MAC address table: provides access to many Layer 2 devices
- VLAN support and tagging: support IEEE 802.1Q, with 4094 simultaneous VLAN IDs
- **IP multicast snooping:** automatically prevents flooding of IP multicast traffic
- **IGMP and MLD snooping:** effectively control and manage the flooding of multicast packets in a Layer 2 network

Layer 3 services

- Address Resolution Protocol (ARP):
 determines the MAC address of another IP host in
 the same subnet; supports static ARPs; gratuitous
 ARP allows detection of duplicate IP addresses
- Dynamic Host Configuration Protocol (DHCP): simplifies the management of large IP networks; supports client; DHCP Relay enables DHCP operation across subnets
- Loopback interface address: defines an address in Routing Information Protocol (RIP) and OSPF that can always be reachable, improving diagnostic capability

Layer 3 routing

• **Static IP routing:** provides manually configured routing for both IPv4 and IPv6 networks

Security

- Access control lists (ACLs): provides IP Layer 2 to Layer 4 traffic filtering; supports global ACL, VLAN ACL, port ACL, and IPv6 ACL
- Identity-driven security and access control:
 - Per-user ACLs: permits or denies 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
 - Automatic VLAN assignment: automatically assigns users to the appropriate VLAN based on their identities
- Secure management access: securely encrypts all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3
- Secure File Transfer Protocol (FTP): allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of switch configuration file
- **Guest VLAN:** similar to IEEE 802.1X, it provides a browser-based environment to authenticated clients
- Port isolation: secures and adds privacy, and prevents malicious attackers from obtaining user information
- STP BPDU port protection: blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
- **STP Root Guard:** protects root bridge from malicious attack or configuration mistakes
- DHCP protection: blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks
- **Dynamic ARP protection:** blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data
- IP source guard: helps prevent IP spoofing attacks
- 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
- Port security: allows access only to specified MAC addresses, which can be learned or specified by the administrator
- MAC-based authentication: allows or denies access to the switch based on client MAC address

Convergence

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP): is an automated device discovery protocol for easy mapping by network management applications
- LLDP-MED: is a standard extension that automatically configures network devices, including LLDP-capable IP phones
- LLDP-CDP compatibility: receives and recognizes CDP packets from Cisco's IP phones for seamless interoperation
- Voice VLAN: automatically assigns VLAN and priority for IP phones, simplifying network configuration and maintenance
- IP multicast snooping (data-driven IGMP): automatically prevents flooding of IP multicast traffic
- Multicast VLAN: reduces network bandwidth demand by eliminating multiple streams to each VLAN

Additional information

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

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; refer to www.hp.com/networking/warranty for details on the support provided and the period during which support is available
- Software releases: 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.

Specifications

	HP A5120-48G SI Switch (JE072A)	HP A5120-24G SI Switch (JE074A)	HP A5120-16G SI Switch (JE073A)
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-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	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); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	16 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-T); 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
	1 RJ-45 serial console port	1 RJ-45 serial console port	1 RJ-45 serial console port
Physical characteristics Dimensions Weight	10.24(d) x 17.3(w) x 1.72(h) in. (26.01 x 43.94 x 4.37 cm) (1U height) 11.02 lb. (5 kg)	6.3(d) x 17.3(w) x 1.72(h) in. (16 x 43.94 x 4.37 cm) (1U height) 6.61 lb. (3 kg)	6.3(d) x 17.3(w) x 1.72(h) in. (16 x 43.94 x 4.37 cm) (1U height) 6.61 lb. (3 kg)
	11.02 ib. (5 kg)	0.01 lb. (0 kg)	0.01 lb. (0 kg)
Memory and processor	128 MB flash, 128 MB SDRAM; packet buffer size: 1 MB	128 MB flash, 128 MB SDRAM; packet buffer size: 0.5 MB	128 MB flash, 128 MB SDRAM; packet buffer size: 0.5 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 μs	< 3 μs	< 3 μs
Throughput	77.4 million pps	41.7 million pps	29.8 million pps
Routing/Switching capacity	104 Gbps	56 Gbps	40 Gbps
Routing table size	32 entries	32 entries	32 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	, 3	, 3	, 3
Maximum heat dissipation	189 BTU/hr (199.4 kJ/hr)	108 BTU/hr (113.94 kJ/hr)	76 BTU/hr (80.18 kJ/hr)
Voltage	100-240 VAC	100-240 VAC	100-240 VAC
Maximum power rating	55.4 W	31.5 W	22.4 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.
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; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; 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; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; 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; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; 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 61000-4-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-4; EN 61000-4-4; EN 61000-4-5; EN 61000-4-1; 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 CISPR2 C Lass A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-1; 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	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager

Specifications (continued)

	HP A5120-48G SI Switch (JE072A)	HP A5120-24G SI Switch (JE074A)	HP A5120-16G SI Switch (JE073A)
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV858E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV858E)	3-year, 4-hour onsite, 13x5 coverage for hardward (UV858E)
	3-year, 4-hour onsite, 24x7 coverage for hardware (UV861E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UV861E)	3-year, 4-hour onsite, 24x7 coverage for hardward (UV861E)
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UV864E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UV864E)	3-year, 4-hour onsite, 24x7 coverage for hardward 24x7 software phone support (UV864E)
	3-year, 24x7 SW phone support, software updates (UV867E)	3-year, 24x7 SW phone support, software updates (UV867E)	3-year, 24x7 SW phone support, software update: (UV867E)
	4-year, 4-hour onsite, 13x5 coverage for hardware (UV859E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UV859E)	4-year, 4-hour onsite, 13x5 coverage for hardward (UV859E)
	4-year, 4-hour onsite, 24x7 coverage for hardware (UV862E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UV862E)	4-year, 4-hour onsite, 24x7 coverage for hardward (UV862E)
	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV865E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV865E)	4-year, 4-hour onsite, 24x7 coverage for hardward 24x7 software phone (UV865E)
	4-year, 24x7 SW phone support, software updates (UV868E)	4-year, 24x7 SW phone support, software updates (UV868E)	4-year, 24x7 SW phone support, software update (UV868E)
	5-year, 4-hour onsite, 13x5 coverage for hardware (UV860E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UV860E)	5-year, 4-hour onsite, 13x5 coverage for hardward (UV860E)
	5-year, 4-hour onsite, 24x7 coverage for hardware (UV863E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UV863E)	5-year, 4-hour onsite, 24x7 coverage for hardward (UV863E)
	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV866E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV866E)	5-year, 4-hour onsite, 24x7 coverage for hardward 24x7 software phone (UV866E)
	5-year, 24x7 SW phone support, software updates (UV869E)	5-year, 24x7 SW phone support, software updates (UV869E)	5-year, 24x7 SW phone support, software update: (UV869E)
	3 Yr 6 hr Call-to-Repair Onsite (UW963E) 4 Yr 6 hr Call-to-Repair Onsite (UW964E) 5 Yr 6 hr Call-to-Repair Onsite (UW965E)	3 Yr 6 hr Call-to-Repair Onsite (UW963E) 4 Yr 6 hr Call-to-Repair Onsite (UW964E) 5 Yr 6 hr Call-to-Repair Onsite (UW965E)	3 Yr 6 hr Call-to-Repair Onsite (UW963E) 4 Yr 6 hr Call-to-Repair Onsite (UW964E) 5 Yr 6 hr Call-to-Repair Onsite (UW965E)
	Refer to the HP website at	Refer to the HP website at	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.	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.	www.hp.com/networking/services for details on the service-level descriptions and product numbers. Odelails about services and response times in your area, please contact your local HP sales office.
Standards and protocols	General protocols	MIBs	LLDP-EXT-DOT1-MIB
(applies to all products in series)	IEEE 802.1D MAC Bridges	IEEE8021-PAE-MIB	LLDP-EXT-DOT3-MIB
	IEEE 802.1p Priority IEEE 802.1Q VLANs	IEEE8023-LAG-MIB RFC 1213 MIB II	LLDP-MIB
	IEEE 802.1s Multiple Spanning Trees	RFC 1493 Bridge MIB	
	IEEE 802.1w Rapid Reconfiguration of Spanning	RFC 2011 SNMPv2 MIB for IP	Network management
	Tree	RFC 2013 SNMPv2 MIB for UDP	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
	IEEE 802.1X PAE IEEE 802.3ad Link Aggregation Control Protocol	RFC 2233 Interface MIB RFC 2571 SNMP Framework MIB	ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
	(LACP)	RFC 2572 SNMP-MPD MIB	SNMPv1/v2c/v3
	IEEE 802.3x Flow Control	RFC 2573 SNMP-Target MIB	
	RFC 768 UDP	RFC 2618 RADIUS Authentication Client MIB	
	RFC 792 ICMP RFC 793 TCP	RFC 2620 RADIUS Accounting Client MIB RFC 2665 Ethernet-Like-MIB	
	RFC 826 ARP	RFC 2668 802.3 MAU MIB	
	RFC 854 TELNET	RFC 2674 802.1p and IEEE 802.1Q Bridge MIB	
	RFC 951 BOOTP	RFC 2819 RMON MIB	
	RFC 1350 TFTP Protocol (revision 2) RFC 2131 DHCP	RFC 2925 Ping MIB RFC 3414 SNMP-User based-SM MIB	
	RFC 2865 Remote Authentication Dial In User	RFC 3415 SNMP-View based-ACM MIB	
	Service (RADIUS) RFC 2866 RADIUS Accounting	RFC 3418 MIB for SNMPv3 RFC 4133 Entity MIB (Version 3)	

Specifications (continued)

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	HP A5120-24G-PoE+ SI Switch (JG091A)	HP A5120-24G-PPoE+ SI Switch (JG092A)
Ports	24 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); 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 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
	4 fixed Gigabit Ethernet SFP ports	4 fixed Gigabit Ethernet SFP ports
	1 RJ-45 serial console port	1 RJ-45 serial console port
Physical characteristics		
Dimensions Weight	16.54 (d) x 17.32 (w) x 1.72 (h) in. ($42 \times 44.0 \times 4.36$ cm) (10 height) 15.43 lb. (7 kg)	16.54(d) x 17.32(w) x 1.72(h) in. (42 x 44.0 x 4.36 cm) (1U height) 15.43 lb. (7 kg)
Memory and processor		
•	128 MB flash, 128 MB SDRAM; packet buffer size: 0.5 MB	128 MB flash, 128 MB SDRAM; packet buffer size: 0.5 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 μs	< 3 μs
Throughput	41.7 million pps	41.7 million pps
Routing/Switching capacity	56 Gbps	56 Gbps
Routing table size	32 entries	32 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	539 BTU/hr (568.65 kJ/hr)	290 BTU/hr (305.95 kJ/hr)
Voltage	100-240 VAC	100-240 VAC
DC voltage	-52 to -55 VDC	100 240 1/10
Maximum power rating	832 W	255 W
PoE power	720 W	170 W
Frequency	50 / 60 Hz	50 / 60 Hz
Notes	·	·
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 a External Power Supply (EPS). With AC input, the Max power consumption is 523W (370W for PoE)	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 a External Power Supply (EPS).
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; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; 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; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; 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 61000-4-3; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A 1:2001+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	IMC · Intelligent Management Center; command-line interface; Web browser; SNMP Manager

Specifications (continued)

	HP A5120-24G-PoE+ SI Switch (JG091A)	HP A5120-24G-PPoE+ SI Switch (JG092A)
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV858E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV858E)
	3-year, 4-hour onsite, 24x7 coverage for hardware (UV861E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UV861E)
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UV864E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UV864E)
	3-year, 24x7 SW phone support, software updates (UV867E)	3-year, 24x7 SW phone support, software updates (UV867E)
	4-year, 4-hour onsite, 13x5 coverage for hardware (UV859E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UV859E)
	4-year, 4-hour onsite, 24x7 coverage for hardware (UV862E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UV862E)
	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV865E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV865E)
5-year, 4-hour onsite, 13x5 coverage for hardware 5-year, 4-hour onsite, 24x7 coverage for hardware 5-year, 4-hour onsite, 24x7 coverage for hardware (UV866E) 5-year, 24x7 SW phone support, software updates 3 Yr 6 hr Call-to-Repair Onsite (UW963E) 4 Yr 6 hr Call-to-Repair Onsite (UW965E) 5 Yr 6 hr Call-to-Repair Onsite (UW965E) Refer to the HP website at www.hp.com/networkin	4-year, 24x7 SW phone support, software updates (UV868E)	4-year, 24x7 SW phone support, software updates (UV868E)
	5-year, 4-hour onsite, 13x5 coverage for hardware (UV860E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UV860E)
	5-year, 4-hour onsite, 24x7 coverage for hardware (UV863E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UV863E)
	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV866E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV866E)
	5-year, 24x7 SW phone support, software updates (UV869E)	5-year, 24x7 SW phone support, software updates (UV869E)
	3 Yr 6 hr Call-to-Repair Onsite (UW963E)	3 Yr 6 hr Call-to-Repair Onsite (UW963E)
	4 Yr 6 hr Call-to-Repair Onsite (UW964E)	4 Yr 6 hr Call-to-Repair Onsite (UW964E)
	5 Yr 6 hr Call-to-Repair Onsite (UW965E)	5 Yr 6 hr Call-to-Repair Onsite (UW965E)
	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	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.	response times in your area, please contact your local HP sales office.

MIBs

IEEE8021-PAE-MIB

IEEE8023-LAG-MIB

RFC 1493 Bridge MIB RFC 2011 SNMPv2 MIB for IP RFC 2013 SNMPv2 MIB for UDP

RFC 2571 SNMP Framework MIB RFC 2572 SNMP-MPD MIB

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

RFC 2674 802.1p and IEEE 802.1Q Bridge MIB

RFC 2573 SNMP-Target MIB

RFC 2665 Ethernet-Like-MIB

RFC 2668 802.3 MAU MIB

RFC 2233 Interface MIB

RFC 1213 MIB II

Standards and protocols

(applies to all products in series)

General protocols IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs

IEEE 802.1s Multiple Spanning Trees

IEEE 802.1w Rapid Reconfiguration of Spanning

IEEE 802.3ad Link Aggregation Control Protocol

IEEE 802.3x Flow Control

RFC 768 UDP RFC 792 ICMP RFC 793 TCP

RFC 826 ARP

RFC 951 BOOTP

RFC 1350 TFTP Protocol (revision 2)

RFC 2131 DHCP

RFC 2865 Remote Authentication Dial In User

Service (RADIUS)

RFC 2866 RADIUS Accounting

RFC 854 TELNET

RFC 2925 Ping MIB RFC 3414 SNMP-User based-SM MIB RFC 3415 SNMP-View based-ACM MIB

RFC 2819 RMON MIB

RFC 3418 MIB for SNMPv3

RFC 4133 Entity MIB (Version 3)

LLDP-EXT-DOT 1-MIB LLDP-EXT-DOT3-MIB LLDP-MIB

Network management IEEE 802.1AB Link Layer Discovery Protocol (LLDP) ANSI/TIA-1057 LLDP Media Endpoint Discovery

SNMPv1/v2c/v3

HP A5120 SI Switch Series accessories

Transceivers

HP X120 1G SFP LC SX Transceiver (JD118B)

HP X120 1G SFP LC LX Transceiver (JD119B)

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)

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)

NEW HP 0.5 m PremierFlex OM3+ LC/LC Optical Cable

(BK837A) **NEW** HP 1 m PremierFlex OM3+ LC/LC Optical Cable

(BK838A)

NEW HP 2 m PremierFlex OM3+ LC/LC Optical Cable (BK839A)

NEW HP 5 m PremierFlex OM3+ LC/LC Optical Cable (BK840A)

NEW HP 15 m PremierFlex OM3+ LC/LC Optical Cable (BK841A)

NEW HP 30 m PremierFlex OM3+ LC/LC Optical Cable (BK842A)

NEW HP 50 m PremierFlex OM3+ LC/LC Optical Cable (BK843A)

Power Supply

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)

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

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