

Data sheet

## Product overview

The HP 3100 SI Switch Series is a low-cost Fast Ethernet switch line that enables organizations to do more with less. Stackable and affordable, this series comprises intelligent, network-manageable Layer 2 Fast Ethernet switches that offer high performance, high port density, and easy installation. These switches provide 10/100 Mbps downlinks and Gigabit Ethernet uplinks, and offer link aggregation that expands bandwidth and enhances connection reliability. In enterprise networks, they can serve as access devices for 100 Mbps-to-desktop applications. In metropolitan area networks (MANs) or industry networks, they can connect end users or aggregate low-end switches through 100 Mbps electrical interfaces in the downlink direction, converging at an IP switching center or a large-capacity Layer 3 switch in the uplink direction via a GbE interface or link aggregation.

## Key features

- Suitable for enterprise networks, MANs
- 8, 16, 24 x 10/100 downlink ports
- Gigabit Ethernet uplinks
- Link aggregation
- Small size with noise-free design



## Features and benefits

## Quality of Service (QoS)

- **Powerful QoS feature:** supports the following congestion actions: weighted round robin queuing and HQ+WRR
- **Broadcast control:** allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic

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

• Stacking capability: single IP address management for a stack of up to 16 switches

## Connectivity

- Auto-MDIX: automatically adjusts for straight-through or crossover cables on all 10/100 and 10/100/1000 ports
- Flow control: using standard IEEE 802.3x, it provides back pressure to reduce congestion in heavy traffic situations
- **Gigabit Ethernet uplinks:** dual-personality ports for either 10/100/1000 or mini-GBIC SFP connectivity for increased connectivity flexibility

## Performance

• **Gigabit Ethernet interface:** provides a connection to the network that eliminates the network as a bottleneck

## Resiliency and high availability

- Separate data and control paths: increases security and performance
- Spanning Tree/MSTP, RSTP: provides redundant links while preventing network loops
- **Port trunking:** provides higher switch-to-switch throughput and link-level redundancy, with support for standards-based link aggregation (IEEE 802.3ad)

### Layer 2 switching

- **8K MAC addresses:** provide access to many Layer 2 devices
- VLAN support and tagging: support IEEE 802.1Q with 4,094 simultaneous VLAN IDs
- GARP VLAN Registration Protocol: allows automatic learning and dynamic assignment of VLANs
- **Gigabit Ethernet port aggregation:** allows grouping of ports to increase overall data throughput to a remote device
- IEEE 802.1 ad QinQ: increases the scalability of an Ethernet network by providing a hierarchical structure; connects multiple LANs on a high-speed campus or metro network

## Security

- IEEE 802.1X: industry-standard method of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server
- MAC-based authentication: client is authenticated with the RADIUS server based on the client's MAC address
- Secure management access: securely encrypts all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3
- Secure FTP: allows secure file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file
- **Guest VLAN:** similar to IEEE 802.1X, it provides a browser-based environment to authenticated clients
- Port security: allows access only to specified MAC addresses, which can be learned or specified by the administrator
- **Port isolation:** secures and adds privacy, and prevents malicious attackers from obtaining user information
- **STP BPDU port protection:** blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks
- **STP Root Guard:** protects the root bridge from malicious attacks or configuration mistakes
- **RADIUS/HWTACACS:** eases switch management security administration by using a password authentication server
- HTTPS management: provides secure Web management

#### Convergence

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP): is an automated device discovery protocol that provides easy mapping of network management applications
- **LLDP-MED:** is a standard extension that automatically configures network devices, including LLDP-capable IP phones
- IP multicast snooping (data-driven IGMP): automatically prevents flooding of IP multicast traffic
- **Multicast VLAN:** allows multiple VLANs to receive the same multicast traffic, reducing network bandwidth demand by eliminating multiple streams to each VLAN

## Flexibility

• Fanless design: enables quiet operation for deployment in open spaces

## Additional information

- Green initiative support: provides support for RoHS and WEEE regulations
- Green IT and power: uses the latest advances in silicon development and shuts off unused ports to improve power efficiency

### 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 <u>www.hp.com/networking/warranty</u> for details on the support provided and the period during which support is available
- **Software releases:** refer to <u>www.hp.com/networking/warranty</u> for details on the software releases provided and the period during which software releases are available for your product(s)

<sup>\*</sup>Hardware warranties replacement for as long as you own the product, with next business day advance replacement (available in most countries). The disk drive included with HP Alliance One Advanced Services and Services zI Modules, HP Threat Management Services zI Module, HP AllianceOne Ext zI Mod w/Rvrbd Stlhd, HP E-MSM765zI Mobility Controller and HP Surv Brch Com zI Mod pwrby Msft Lync has a five-year hardware warranty. For details, refer to the Software license and hardware warranty statements at www.hp.com/networking/warranty.

# Specifications

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	HP 3100-8 SI Switch (JD304A)	HP 3100-16 SI Switch (JD305A)	HP 3100-24 SI Switch (JD306A)
Ports	1 autosensing 10/100/1000 port (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	1 autosensing 10/100/1000 port (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	2 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
	8 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full	16 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full	24 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full
	1 RJ-45 serial console port	1 RJ-45 serial console port	1 RJ-45 serial console port
Physical characteristics Dimensions	7.9(d) x 12.8(w) x 1.7(h) in. (20.07 x 32.51 x 4.32 cm) (1U height)	7.9(d) x 17.2(w) x 1.7(h) in. (20.07 x 43.69 x 4.32 cm) (1U height)	9.5(d) x 17.2(w) x 1.7(h) in. (24.13 x 43.69 x 4.32 cm) (1U height)
Weight	6.61 lb. (3.0 kg)	6.61 lb. (3.0 kg)	6.61 lb. (3.0 kg)
Memory and processor	64 MB SDRAM, 8 MB flash; packet buffer size: 256 KB	64 MB SDRAM, 8 MB flash; packet buffer size: 256 KB	64 MB SDRAM, 8 MB flash; packet buffer size: 256 KB
Mounting	Requires angle mounting set if rack mounted (not 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			· · · · ·
Latency	< 10 µs	< 10 µs	< 10 µs
Throughput	up to 2.6 million pps	3.8 million pps	6.5 million pps
Routing/Switching capacity	3.6 Gbps	5.2 Gbps	8.8 Gbps
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	34 BTU/hr (35.87 kJ/hr)	41 BTU/hr (43.26 kJ/hr)	68 BTU/hr (71.74 kJ/hr)
Voltage	100-240 VAC	100-240 VAC	100-240 VAC
Maximum power rating	10 W	12 W	20 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; 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
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 61000-3.2:2005; 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 61000-3.31995 +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
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV810E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV810E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV810E)
	3-year, 4-hour onsite, 24x7 coverage for hardware (UV813E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UV813E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UV813E)
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV816E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV816E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV816E)
	3-year, 24x7 SW phone support, software updates (UV819E)	3-year, 24x7 SW phone support, software updates (UV819E)	3-year, 24x7 SW phone support, software updates (UV819E)

## Specifications (continued)

#### HP 3100-8 SI Switch (JD304A)

HP 3100-16 SI Switch (JD305A)

#### HP 3100-24 SI Switch (JD306A)

Installation with minimum configuration, Installation with minimum configuration, Installation with minimum configuration, system-based pricing (UX114E) system-based pricing (UX114E) system-based pricing (UX114E) Installation with HP-provided configuration, Installation with HP-provided configuration, Installation with HP-provided configuration, system-based pricing (UX115E) system-based pricing (UX115E) system-based pricing (UX115E) 4-year, 4-hour onsite, 13x5 coverage for hardware 4-year, 4-hour onsite, 13x5 coverage for hardware 4-year, 4-hour onsite, 13x5 coverage for hardware (UV811E) (UV811E) (UV811E) 4-year, 4-hour onsite, 24x7 coverage for hardware 4-year, 4-hour onsite, 24x7 coverage for hardware 4-year, 4-hour onsite, 24x7 coverage for hardware (UV814E) (UV814E) (UV814E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 4-year, 4-hour onsite, 24x7 coverage for hardware, 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV817E) 24x7 software phone (UV817E) 24x7 software phone (UV817E) 4-year, 24x7 SW phone support, software updates 4-year, 24x7 SW phone support, software updates 4-year, 24x7 SW phone support, software updates (UV820F) (UV820F) (UV820F) 5-year, 4-hour onsite, 13x5 coverage for hardware 5-year, 4-hour onsite, 13x5 coverage for hardware 5-year, 4-hour onsite, 13x5 coverage for hardware (UV812E) (UV812E) (UV812E) 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 (UV815E) (UV815E) (UV815E) 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, 24x7 software phone (UV818E) 24x7 software phone (UV818E) 24x7 software phone (UV818E) 5-year, 24x7 SW phone support, software updates 5-year, 24x7 SW phone support, software updates 5-year, 24x7 SW phone support, software updates (UV821E) (UV821E) (UV821E) 3 Yr 6 hr Call-to-Repair Onsite (UW428E) 3 Yr 6 hr Call-to-Repair Onsite (UW428E) 3 Yr 6 hr Call-to-Repair Onsite (UW428E) 4 Yr 6 hr Call-to-Repair Onsite (UW429E) 4 Yr 6 hr Call-to-Repair Onsite (UW429E) 4 Yr 6 hr Call-to-Repair Onsite (UW429E) 5 Yr 6 hr Call-to-Repair Onsite (UW430E) 5 Yr 6 hr Call-to-Repair Onsite (UW430E) 5 Yr 6 hr Call-to-Repair Onsite (UW430E) 1-year, 4-hour onsite, 24x7 coverage for hardware 1-year, 4-hour onsite, 24x7 coverage for hardware 1-year, 4-hour onsite, 13x5 coverage for hardware (HR595E) (HR595E) (HR594E) 1-year, 6 hour Call-To-Repair Onsite for hardware 1-year, 6 hour Call-To-Repair Onsite for hardware 1-year, 4-hour onsite, 24x7 coverage for hardware (HR598E) (HR598E) (HR595E) 1-year, 24x7 software phone support, software 1-year, 24x7 software phone support, software 1-year, 6 hour Call-To-Repair Onsite for hardware updates (HR597E) updates (HR597E) (HR598E) 1-year, 4-hour onsite, 24x7 coverage for hardware, 1-year, 4-hour onsite, 24x7 coverage for hardware, 1-year, 24x7 software phone support, software 24x7 software phone support and software updates 24x7 software phone support and software updates updates (HR597E) (HR596E) (HR596E) 1-year, 24x7 software phone support, software 1-year, 24x7 software phone support, software 1-year, 4-hour onsite, 24x7 coverage for hardware, updates + Next Business Day Hardware Exchange updates + Next Business Day Hardware Exchange 24x7 software phone support and software updates (HS698E) (HS698E) (HR596E) 1-year, 24x7 software phone support, software 1-year, 24x7 software phone support, software 1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS699E) updates + 4 hour hardware exchange (HS699E) updates + Next Business Day Hardware Exchange (HS698E) 3-year, 24x7 software phone support, software 1-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 + 4 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4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange updates + Next Business Day Hardware Exchange updates + 4 hour Hardware Exchange (HS703E) (HS704E) (HS704E) 5-year, 24x7 software phone support, software 5-year, 24x7 software phone support, software 5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS705E) updates + 4 hour Hardware Exchange (HS705E) updates + Next Business Day Hardware Exchange (HS704E) Refer to the HP website at Refer to the HP website at 5-year, 24x7 software phone support, software www.hp.com/networking/services for details on the www.hp.com/networking/services for details on the updates + 4 hour Hardware Exchange (HS705E) service-level descriptions and product numbers. For service-level descriptions and product numbers. For details about services and response times in your details about services and response times in your area, please contact your local HP sales office. area, please contact your local HP sales office.

#### Refer to the HP website at

<u>www.hp.com/networking/services</u> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

	HP 3100-8 SI Switch (JD304A)	HP 3100-16 SI Switch (JD305A)	HP 3100-24 SI Switch (JD306A)
Standards and protocols (applies to all products in series)	General protocols IEEE 802. 1D MAC Bridges IEEE 802. 1D Priority IEEE 802. 1G VLANs IEEE 802. 1S Multiple Spanning Trees IEEE 802. 3u Rapid Reconfiguration of Spanning Tree IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-T IEEE 802.3u 100BASE-X IEEE 802.3u 100BASE-X IEEE 802.3z 1000BASE-X RFC 768 UDP RFC 791 IP RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TEINET RFC 951 BOOTP	MIBs   IEEE 8021-PAE-MIB   IEEE 8023-LAG-MIB   RFC 1213 MIB II   RFC 1493 Bridge MIB   RFC 2011 SNMPV2 MIB for IP   RFC 2013 SNMPV2 MIB for UDP   RFC 2013 SNMPV2 MIB for UDP   RFC 2573 SNMPV2 MIB for UDP   RFC 2573 SNMP-MPD MIB   RFC 2573 SNMP-Notification MIB   RFC 2573 SNMP-Target MIB   RFC 2618 RADIUS Authentication Client MIB   RFC 2620 RADIUS Accounting Client MIB   RFC 2657 Ethernet-Like-MIB   RFC 2674 802.1 p and IEEE 802.1 Q Bridge MIB   RFC 2925 Ping MIB   RFC 2925 Ping MIB   RFC 3414 SNMP-User based-ACM MIB   RFC 3415 SNMP-View based-ACM MIB   RFC 3418 MIB for SNMP/3   RFC 3826 AES for SNMP'8 USM MIB   RFC 3413 JUPP MIB	LLDP-EXT-DOT1-MIB LLDP-EXT-DOT3-MIB LLDP-MIB Network management IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 1157 SNMPv1 RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3

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	HP 3100-8 v2 SI Switch (JG221A)	HP 3100-16 v2 SI Switch (JG222A)	HP 3100-24 v2 SI Switch (JG223A)
Ports	1 dual-personality 10/100/1000 port (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	2 dual-personality 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	2 dual-personality 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
	8 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full	16 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full	24 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full
	1 RJ-45 serial console port	1 RJ-45 serial console port	1 RJ-45 serial console port
Physical characteristics			
Dimensions	6.3(d) x 9.06(w) x 1.72(h) in. (16.0 x 23.0 x 4.36 cm) (1U height)	6.3(d) x 14.17(w) x 1.72(h) in. (16.0 x 36.0 x 4.36 cm) (1U height)	6.3(d) x 17.32(w) x 1.72(h) in. (16.0 x 44.0 x 4.36 cm) (1U height)
Weight	6.61 lb. (3.0 kg)	6.61 lb. (3.0 kg)	6.61 lb. (3.0 kg)
Memory and processor	128 MB SDRAM, 16 MB flash; packet buffer size: 384 KB	128 MB SDRAM, 16 MB flash; packet buffer size: 384 KB	128 MB SDRAM, 16 MB flash; packet buffer size: 384 KB
Mounting	Requires angle mounting set if rack mounted (not 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			· · · · · · · · · · · · · · · · · · ·
100 Mb Latency	< 6 µs	< 6 µs	< 6 µs
1000 Mb Latency	< 5 μs	< 5 µs	< 5 µs
Throughput	up to 2.7 million pps	5.4 million pps	6.6 million pps
Routing/Switching capacity	3.6 Gbps	7.2 Gbps	8.8 Gbps
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
		<b>3</b>	<b>.</b>
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	31 BTU/hr (32.71 kJ/hr)	41 BTU/hr (43.26 kJ/hr)	44 BTU/hr (46.42 kJ/hr)
Voltage	100-240 VAC	100-240 VAC	100-240 VAC
Maximum power rating	9 W	12 W	13 W
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Notes	-		Maximum power rating and maximum heat
i voles	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.	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	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 61000-3:1975 +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 61000-4.1; EN 61000-3.2:2005; 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
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV810E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV810E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV810E)
	3-year, 4-hour onsite, 24x7 coverage for hardware (UV813E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UV813E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UV813E)
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV816E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV816E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV816E)

HP 3100-8 v2 SI Switch (JG221A)	HP 3100-16 v2 SI Switch (JG222A)	HP 3100-24 v2 SI Switch (JG223A)
3-year, 24x7 SW phone support, software updates (UV819E)	3-year, 24x7 SW phone support, software updates (UV819E)	3-year, 24x7 SW phone support, software update (UV819E)
Installation with minimum configuration, system-based pricing (UX114E)	Installation with minimum configuration, system-based pricing (UX114E)	Installation with minimum configuration, system-based pricing (UX114E)
Installation with HP-provided configuration, system-based pricing (UX115E)	Installation with HP-provided configuration, system-based pricing (UX115E)	Installation with HP-provided configuration, system-based pricing (UX115E)
4-year, 4-hour onsite, 13x5 coverage for hardware (UV811E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UV811E)	4-year, 4-hour onsite, 13x5 coverage for hardwa (UV811E)
4-year, 4-hour onsite, 24x7 coverage for hardware (UV814E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UV814E)	4-year, 4-hour onsite, 24x7 coverage for hardwa (UV814E)
4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV817E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV817E)	4-year, 4-hour onsite, 24x7 coverage for hardwa 24x7 software phone (UV817E)
4-year, 24x7 SW phone support, software updates (UV820E)	4-year, 24x7 SW phone support, software updates (UV820E)	4-year, 24x7 SW phone support, software updat (UV820E)
5-year, 4-hour onsite, 13x5 coverage for hardware (UV812E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UV812E)	5-year, 4-hour onsite, 13x5 coverage for hardwa (UV812E)
5-year, 4-hour onsite, 24x7 coverage for hardware (UV815E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UV815E)	5-year, 4-hour onsite, 24x7 coverage for hardwc (UV815E)
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV818E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV818E)	5-year, 4-hour onsite, 24x7 coverage for hardwa 24x7 software phone (UV818E)
5-year, 24x7 SW phone support, software updates (UV821E)	5-year, 24x7 SW phone support, software updates (UV821E)	5-year, 24x7 SW phone support, software updat (UV821E)
3 Yr 6 hr Call-to-Repair Onsite (UW428E) 4 Yr 6 hr Call-to-Repair Onsite (UW429E)	3 Yr 6 hr Call-to-Repair Onsite (UW428E) 4 Yr 6 hr Call-to-Repair Onsite (UW429E)	3 Yr 6 hr Call-to-Repair Onsite (UW428E) 4 Yr 6 hr Call-to-Repair Onsite (UW429E)
5 Yr 6 hr Call-to-Repair Onsite (UW430E)	5 Yr 6 hr Call-to-Repair Onsite (UW430E)	5 Yr 6 hr Call-to-Repair Onsite (UW430E)
1-year, 4-hour onsite, 13x5 coverage for hardware (HR594E)	1-year, 4-hour onsite, 13x5 coverage for hardware (HR594E)	1-year, 4-hour onsite, 13x5 coverage for hardwa (HR594E)
1-year, 4-hour onsite, 24x7 coverage for hardware (HR595E)	1-year, 4-hour onsite, 24x7 coverage for hardware (HR595E)	1-year, 4-hour onsite, 24x7 coverage for hardwa (HR595E)
1-year, 6 hour Call-To-Repair Onsite for hardware (HR598E)	1-year, 6 hour Call-To-Repair Onsite for hardware (HR598E)	1-year, 6 hour Call-To-Repair Onsite for hardwar (HR598E)
1-year, 24x7 software phone support, software updates (HR597E)	1-year, 24x7 software phone support, software updates (HR597E)	1-year, 24x7 software phone support, software updates (HR597E)
1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR596E)	1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR596E)	1-year, 4-hour onsite, 24x7 coverage for hardwa 24x7 software phone support and software upda (HR596E)
1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS698E)	1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS698E)	1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchang (HS698E)
1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS699E)	1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS699E)	1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS699E)
3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS700E)	3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS700E)	3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchang (HS700E)
3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS701E)	3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS701E)	3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS701E
4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS702E)	4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS702E)	4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchan (HS702E)
4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS703E)	4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS703E)	4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS703E
5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS704E)	5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS704E)	5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchan (HS704E)
5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS705E)	5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS705E)	5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS705E
Refer to the HP website at <u>www.hp.com/networking/services</u> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	Refer to the HP website at <u>www.hp.com/networking/services</u> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	Refer to the HP website at <u>www.hp.com/networking/services</u> for details or service-level descriptions and product numbers. details about services and response times in you area, please contact your local HP sales office.

	HP 3100-8 v2 SI Switch (JG221A)	HP 3100-16 v2 SI Switch (JG222A)	HP 3100-24 v2 SI Switch (JG223A)
Standards and protocols (applies to all products in series)	General protocols IEEE 802.1 D MAC Bridges IEEE 802.1 p Priority IEEE 802.1 Q VLANs IEEE 802.1 s Multiple Spanning Trees IEEE 802.3 th Multiple Spanning Trees IEEE 802.3 th 1000BASE-T IEEE 802.3 ab 1000BASE-T IEEE 802.3 ab 1000BASE-T IEEE 802.3 th 100BASE-T IEEE 802.3 th 100BASE-X IEEE 802.3 th 100BASE-X IEEE 802.3 thow Control IEEE 802.4 thow Control IEE	MIBs   IEEE 8021-PAE-MIB   IEEE 8023-LAG-MIB   RFC 1213 MIB II   RFC 1213 MIB II   RFC 2011 SNMPv2 MIB for IP   RFC 2013 SIMMPv2 MIB for UDP   RFC 2013 SIMMPv2 MIB for UDP   RFC 2573 SIMMP-VAIB for UDP   RFC 2573 SIMMP-Notification MIB   RFC 2573 SIMMP-Notification MIB   RFC 2573 SIMMP-Notification Client MIB   RFC 2618 RADIUS Authentication Client MIB   RFC 2602 RADIUS Accounting Client MIB   RFC 2674 802.1 p and IEEE 802.1Q Bridge MIB   RFC 2925 Ping MIB   RFC 2414 SIMMP-User based-SM MIB   RFC 3415 SIMP-View based-ACM MIB   RFC 3418 MIB for SIMMP'3   RFC 3418 MIB for SIMMP'3 USM MIB   RFC 3413 UDP MIB	LLDP-EXT-DOT1-MIB LLDP-EXT-DOT3-MIB LLDP-MIB Network management IEEE 802.1AB Link Layer Discovery Prolocol (LLDP) RFC 1157 SNMPv1 RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) ANSI/TLA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3

## HP 3100 SI Switch Series accessories

## Modules

HP 1-port Gig-T 3100 SI Module (JD298A)

- HP 1-port Gig-LX SC 3100 SI Module (JD299A)
- HP 1-port Gig-SX SC 3100 SI Module (JD300A)
- HP 1-port 10/100Base-T PoE 3100 SI Module (JD301A)

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