

### Overview

### Models

HP 3100-8 SI Switch	JD304A
HP 3100-16 SI Switch	JD305A
HP 3100-24 SI Switch	JD306A
HP 3100-16 SI Switch with 2 Slots	JD308A
HP 3100-24 SI Switch with 2 Slots	JD309A

### Key features

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

### 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. They 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.

### 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 broadcast traffic on the network

#### 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



### Overview

- 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 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 4094 simultaneous VLAN IDs
- **GARP VLAN Registration Protocol (GVRP):** 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 802.1ad 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 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 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 root bridge from malicious attack or configuration mistakes
- **RADIUS/HWTACACS:** eases switch management security administration by using a password authentication server
- **HTTPS management:** provides secure Web management

### Convergence



### Overview

- **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
- **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

- **Designed with no fan:** 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 [www.hp.com/networking/warranty](http://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](http://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 zI Module, HP Threat Management Services zI Module, HP PCM+ Agent with AllianceONE Services zI Module, and HP E-MSM765 zI Mobility Controller. For details, refer to the HP Software License, Warranty, and Support booklet at [www.hp.com/networking/warranty](http://www.hp.com/networking/warranty).



### Technical Specifications

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

<b>Ports</b>	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
	8 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
<b>Physical characteristics</b>	<b>Dimensions</b> 7.9(d) x 12.8(w) x 1.7(h) in. (20.07 x 32.51 x 4.32 cm) (1U height)
	<b>Weight</b> 6.61 lb. (3.0 kg)
<b>Memory and processor</b>	64 MB SDRAM, 8 MB flash; packet buffer size: 256 KB
<b>Mounting</b>	Requires angle mounting set if rack mounted (not included)
<b>Performance</b>	<b>Latency</b> < 10 $\mu$ s
	<b>Throughput</b> up to 2.6 million pps
	<b>Routing/Switching capacity</b> 3.6 Gbps
<b>Environment</b>	<b>Operating temperature</b> 32°F to 113°F (0°C to 45°C)
	<b>Operating relative humidity</b> 10% to 90%, non-condensing
	<b>Non-operating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C)
	<b>Non-operating/Storage relative humidity</b> 5% to 95%, non-condensing
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b> 34 BTU/hr (35.87 kJ/hr)
	<b>Voltage</b> 100-240 VAC
	<b>Maximum power rating</b> 10 W
	<b>Frequency</b> 50 / 60 Hz
	<b>Notes</b> 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.
<b>Safety</b>	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
<b>Emissions</b>	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
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager
<b>Services</b>	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, 24x7 software phone support (UV816E) 3-year, 24x7 SW phone support, software updates (UV819E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV811E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV814E)



### Technical Specifications

- 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV817E)
- 4-year, 24x7 SW phone support, software updates (UV820E)
- 5-year, 4-hour onsite, 13x5 coverage for hardware (UV812E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware (UV815E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV818E)
- 5-year, 24x7 SW phone support, software updates (UV821E)
- 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)

Refer to the HP website at: [www.hp.com/networking/services](http://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 3100-16 SI Switch (JD305A)

<b>Ports</b>	1 auto-sensing 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 16 auto-sensing 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
<b>Physical characteristics</b>	<b>Dimensions</b> 7.9(d) x 17.2(w) x 1.7(h) in. (20.07 x 43.69 x 4.32 cm) (1U height) <b>Weight</b> 6.61 lb. (3.0 kg)
<b>Memory and processor</b>	64 MB SDRAM, 8 MB flash; packet buffer size: 256 KB
<b>Mounting</b>	Mounts in an EIA standard 19-in. telco rack or equipment cabinet (hardware included)
<b>Performance</b>	<b>Latency</b> < 10 $\mu$ s <b>Throughput</b> 3.8 million pps <b>Routing/Switching capacity</b> 5.2 Gbps
<b>Environment</b>	<b>Operating temperature</b> 32°F to 113°F (0°C to 45°C) <b>Operating relative humidity</b> 10% to 90%, non-condensing <b>Non-operating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C) <b>Non-operating/Storage relative humidity</b> 5% to 95%, non-condensing
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b> 41 BTU/hr (43.26 kJ/hr) <b>Voltage</b> 100-240 VAC <b>Maximum power rating</b> 12 W <b>Frequency</b> 50 / 60 Hz <b>Notes</b> 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.



### Technical Specifications

<b>Safety</b>	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
<b>Emissions</b>	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
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager
<b>Services</b>	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, 24x7 software phone support (UV816E) 3-year, 24x7 SW phone support, software updates (UV819E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV811E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV814E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV817E) 4-year, 24x7 SW phone support, software updates (UV820E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV812E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV815E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV818E) 5-year, 24x7 SW phone support, software updates (UV821E) 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)

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

<b>Ports</b>	2 auto-sensing 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 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
<b>Physical characteristics</b>	<b>Dimensions</b> 9.5(d) x 17.2(w) x 1.7(h) in. (24.13 x 43.69 x 4.32 cm) (1U height) <b>Weight</b> 6.61 lb. (3.0 kg)
<b>Memory and processor</b>	64 MB SDRAM, 8 MB flash; packet buffer size: 256 KB
<b>Mounting</b>	Mounts in an EIA standard 19-in. telco rack or equipment cabinet (hardware included)
<b>Performance</b>	<b>Latency</b> < 10 $\mu$ s <b>Throughput</b> 6.5 million pps <b>Routing/Switching capacity</b> 8.8 Gbps
<b>Environment</b>	<b>Operating temperature</b> 32°F to 113°F (0°C to 45°C) <b>Operating relative humidity</b> 10% to 90%, non-condensing



### Technical Specifications

	<b>Non-operating/Storage temperature</b>	-40°F to 158°F (-40°C to 70°C)
	<b>Non-operating/Storage relative humidity</b>	5% to 95%, non-condensing
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b>	68 BTU/hr (71.74 kJ/hr)
	<b>Voltage</b>	100-240 VAC
	<b>Maximum power rating</b>	20 W
	<b>Frequency</b>	50 / 60 Hz
	<b>Notes</b>	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.
<b>Safety</b>	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	
<b>Emissions</b>	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	
<b>Management</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager	
<b>Services</b>	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, 24x7 software phone support (UV816E)	
	3-year, 24x7 SW phone support, software updates (UV819E)	
	4-year, 4-hour onsite, 13x5 coverage for hardware (UV811E)	
	4-year, 4-hour onsite, 24x7 coverage for hardware (UV814E)	
	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV817E)	
	4-year, 24x7 SW phone support, software updates (UV820E)	
	5-year, 4-hour onsite, 13x5 coverage for hardware (UV812E)	
	5-year, 4-hour onsite, 24x7 coverage for hardware (UV815E)	
	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV818E)	
5-year, 24x7 SW phone support, software updates (UV821E)		
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)		

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### HP 3100-16 SI Switch with 2 Slots (JD308A)

<b>Ports</b>	2 port expansion module slots
	16 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



### Technical Specifications

Physical characteristics	Dimensions	7.9(d) x 17.2(w) x 1.7(h) in. (20.07 x 43.69 x 4.32 cm) (1U height)
	Weight	6.61 lb. (3.0 kg)
Memory and processor	64 MB SDRAM, 8 MB flash; packet buffer size: 256 KB	
Mounting	Mounts in an EIA standard 19-in. telco rack or equipment cabinet (hardware included)	
Performance	Latency	< 10 $\mu$ s
	Throughput	5.3 million pps
	Routing/Switching capacity	7.2 Gbps
Environment	Operating temperature	32°F to 113°F (0°C to 45°C)
	Operating relative humidity	10% to 90%, non-condensing
	Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating/Storage relative humidity	5% to 95%, non-condensing
Electrical characteristics	Maximum heat dissipation	41 BTU/hr (43.26 kJ/hr)
	Voltage	100-240 VAC
	Maximum power rating	12 W
	Frequency	50 / 60 Hz
	Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60950-1/A11; FDA 21 CFR Subchapter J; ROHS Compliance	
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 Class A; ANSI C63.4 2003; ETSI EN 300 386 V1.3.3; AS/NZS CISPR22 Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; EN 61000-3-2:2006; EN 61000-3-3:1995 +A1:2001 +A2:2005; EMC Directive 2004/108/EC; FCC (CFR 47, Part 15) Class A	
Management	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, 24x7 coverage for hardware (UV813E)	
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UV816E)	
	3-year, 24x7 SW phone support, software updates (UV819E)	
	4-year, 4-hour onsite, 13x5 coverage for hardware (UV811E)	
	4-year, 4-hour onsite, 24x7 coverage for hardware (UV814E)	
	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV817E)	
	4-year, 24x7 SW phone support, software updates (UV820E)	
	5-year, 4-hour onsite, 13x5 coverage for hardware (UV812E)	
5-year, 4-hour onsite, 24x7 coverage for hardware (UV815E)		
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV818E)		
5-year, 24x7 SW phone support, software updates (UV821E)		
3 Yr 6 hr Call-to-Repair Onsite (UW428E)		
4 Yr 6 hr Call-to-Repair Onsite (UW429E)		





### Technical Specifications

5 Yr 6 hr Call-to-Repair Onsite (UW430E)

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#### HP 3100-24 SI Switch with 2 slots (JD309A)

<b>Ports</b>	2 port expansion module slots 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
<b>Physical characteristics</b>	<b>Dimensions</b> 9.5(d) x 17.2(w) x 1.7(h) in. (24.13 x 43.69 x 4.32 cm) (1U height) <b>Weight</b> 6.61 lb. (3.0 kg)
<b>Memory and processor</b>	64 MB SDRAM, 8 MB flash; packet buffer size: 256 KB
<b>Mounting</b>	Mounts in an EIA standard 19-in. telco rack or equipment cabinet (hardware included)
<b>Performance</b>	<b>Latency</b> < 10 $\mu$ s <b>Throughput</b> 6.5 million pps <b>Routing/Switching capacity</b> 8.8 Gbps
<b>Environment</b>	<b>Operating temperature</b> 32°F to 113°F (0°C to 45°C) <b>Operating relative humidity</b> 10% to 90%, non-condensing <b>Non-operating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C) <b>Non-operating/Storage relative humidity</b> 5% to 95%, non-condensing
<b>Electrical characteristics</b>	<b>Maximum heat dissipation</b> 68 BTU/hr (71.74 kJ/hr) <b>Voltage</b> 100-240 VAC <b>Maximum power rating</b> 20 W <b>Frequency</b> 50 / 60 Hz <b>Notes</b> 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.
<b>Safety</b>	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
<b>Emissions</b>	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
<b>Management Services</b>	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager 3-year, 4-hour onsite, 13x5 coverage for hardware (UV810E)



### Technical Specifications

- 3-year, 4-hour onsite, 24x7 coverage for hardware (UV813E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UV816E)
- 3-year, 24x7 SW phone support, software updates (UV819E)
- 4-year, 4-hour onsite, 13x5 coverage for hardware (UV811E)
- 4-year, 4-hour onsite, 24x7 coverage for hardware (UV814E)
- 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV817E)
- 4-year, 24x7 SW phone support, software updates (UV820E)
- 5-year, 4-hour onsite, 13x5 coverage for hardware (UV812E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware (UV815E)
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- 4 Yr 6 hr Call-to-Repair Onsite (UW429E)
- 5 Yr 6 hr Call-to-Repair Onsite (UW430E)

Refer to the HP website at: [www.hp.com/networking/services](http://www.hp.com/networking/services) for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

### Standards and protocols

#### 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 Tree
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3ad Link Aggregation Control Protocol (LACP)
- 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 826 ARP
- RFC 854 TELNET
- 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 2233 Interface MIB
- RFC 2571 SNMP Framework MIB
- RFC 2572 SNMP-MPD MIB
- RFC 2573 SNMP-Notification MIB
- RFC 2573 SNMP-Target MIB
- RFC 2618 RADIUS Authentication Client MIB



## Technical Specifications

RFC 2620 RADIUS Accounting Client MIB  
RFC 2665 Ethernet-Like-MIB  
RFC 2674 802.1p and IEEE 802.1Q Bridge MIB  
RFC 2819 RMON MIB  
RFC 2925 Ping MIB  
RFC 3414 SNMP-User based-SM MIB  
RFC 3415 SNMP-View based-ACM MIB  
RFC 3418 MIB for SNMPv3  
RFC 3826 AES for SNMP's USM MIB  
RFC 4113 UDP 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



### Accessories

#### HP 3100 SI Switch Series Modules

accessories	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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