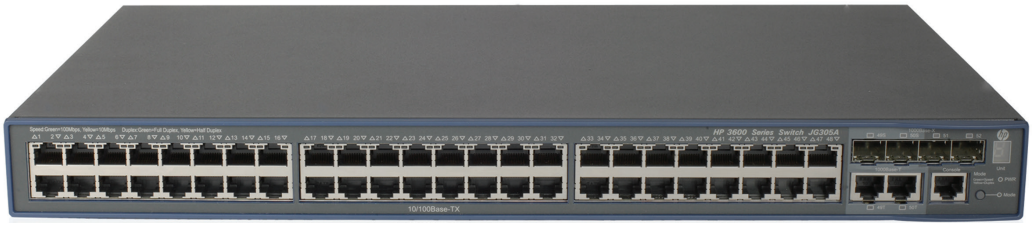
Data sheet

# HP 3600 SI Switch Series



## Product overview

The HP 3600 SI Switch Series delivers intelligent, resilient performance, security, and reliability for robust switching at the enterprise network edge. The series consists of Fast Ethernet and PoE/PoE+ switches, with features that can accommodate large enterprise and SMB applications. The switches deliver secure, resilient connectivity as well as the latest traffic-prioritization technologies to enhance converged networks. And they are designed for improved flexibility and scalability.

**A summary of the highlights of the 3600 SI Switch Series:**

- Robust switching at the enterprise network edge
- Static and routing-information-protocol (RIP) L3 routing
- Automatic stacking with intelligent resilient framework (IRF)
- Integrated and distributed security enforcement
- Enterprise-level non-blocking performance

# Features and benefits

### Quality of service (QoS)

- Broadcast control
  Allows limitation of broadcast traffic rate to cut down on unwanted network broadcast traffic
- Advanced classifier-based QoS
  Classifies traffic using multiple match criteria based on L2, L3, and L4 information; and applies QoS policies such as setting the priority level and rate limiting to selected traffic on a per-port or per-VLAN basis
- Powerful QoS feature
  Supports these congestion actions: strict priority queuing, weighted round robin, weighted fair queuing, and weighted random early detection
- Traffic policing
  Supports committed access rate and line rate

### Management

- Friendly port names
  Allows assignment of descriptive names to ports
- Remote configuration and management
  Enables configuration and management through a secure Web browser or a CLI located on a remote device
- Manager and operator privilege levels
  Provides read-only (operator) and read/write (manager) access on the CLI and Web-browser management interfaces
- Command authorization
  Leverages the HWTACACS to link a custom list of CLI commands to an individual network administrator's login; and provides an audit trail
- Secure Web GUI
  Provides a secure, easy-to-use graphical interface for configuring the module via HTTPS
- Multiple configuration files
  Are easily stored with a 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; and supports events, alarms, history, and statistics groups as well as a private alarm extension group
- Local and remote intelligent mirroring
  Mirrors traffic from a switch port to a remote switch port anywhere on the network; or mirrors traffic selected by an access control list (ACL) to a local switch port
- Management VLAN
  Segments traffic to and from management interfaces, including a CLI/telnet, Web browser interface, and SNMP
- IEEE 802.1ab link-layer discovery protocol (LLDP)
  Advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications

- Device link detection protocol
  Monitors the cable between two switches and shuts down the ports on both ends if the cable is broken, helping prevent network problems such as loops
- sFlow® (RFC 3176)
  Provides scalable ASIC-based wire-speed network monitoring and accounting with no impact on network performance; this allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes
- IPv6 management
  Future-proofs networking, as the switch is capable of being managed whether the attached network is running IPv4 or IPv6; and supports pingv6, tracertv6, Telnetv6, TFTPv6, DNSv6, syslogv6, FTPv6, SNMPv6, dynamic host configuration protocol (DHCP) v6, and RADIUS for IPv6
- Troubleshooting
  Enables network problem solving, using ingress and egress port monitoring; and provides visibility into cable problems, using virtual cable tests

**Connectivity**

- IPv6
  - Telnet
    For allowing CLI access via IPv6
  - SNMP
    For IPv6 switch management
  - DNS
    For IPv6 host management
  - DHCP
    For auto IPv6 address configuration of a switch
- Auto-MDIX
  Provides automatic adjustments for straight-through or crossover cables on all 10/100 and 10/100/1000 ports
- Jumbo packet support
  Supports up to 9,216-byte frame sizes to improve the performance of large data transfers
- Gigabit Ethernet uplinks
  Are dual-personality ports for 10/100/1000 or mini-GBIC SFP connectivity, increasing connectivity flexibility
- High-density access
  Provides up to 48 fixed 10/100BASE-T PoE or non-PoE ports in an L2 or L3 switch
- Ethernet operations, administration, and maintenance (OAM)
  Detects the data link layer problems that occur in the “last mile,” using the IEEE 802.3ah OAM standard; and monitors the status of the link between two devices
- IEEE 802.3af PoE
  Provides up to 15.4 W per port to IEEE 802.3af-compliant PoE-powered devices such as IP phones, wireless access points, and security cameras
- IEEE 802.3at PoE+
  Provides up to 30 W per port, allowing support of the latest PoE+-capable devices such as IP phones, wireless access points, and security cameras as well as any IEEE 802.3af-compliant end device; and mitigates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments

### Performance

- Non-blocking performance
  Enables wire-speed switching with up to 13.1 million pps throughput, using up to 17.6 Gb/s non-blocking switching fabric
- Gigabit Ethernet interface
  Provides a connection to the network that helps eliminates network bottlenecks
- Hardware-based wire-speed access control lists
  Uses a feature-rich ACL implementation to help ensure high levels of security and ease of administration—without impacting network performance

### Resiliency and high availability

- Separate data and control paths
  Separates control from services and keeps service processing isolated; and increases security and performance
- External redundant power supply
  Provides high reliability
- SmartLink
  Allows 50 ms failover between links
- Spanning tree protocol (STP)/multiple STP (MSTP)/rapid STP (RSTP)
  Provides redundant links while helping prevent network loops
- IRF
  Creates virtual resilient switching fabrics, where two or more switches perform as a single L2 switch and L3 router; switches don't have to be co-located and can be part of a disaster-recovery system; servers or switches can be attached using the standard link-aggregation control protocol (LACP) for automatic load balancing and high availability; it can help eliminate the need for complex protocols such as STP, equal-cost multipath (ECMP), or virtual router redundancy protocol (VRRP)—simplifying network operations
- IEEE 802.3ad LACP
  Supports up to 24 trunks, each with 8 links per trunk; and provides support for static or dynamic groups
- VRRP
  Allows groups of two routers to dynamically back each other up to create highly available routed environments in IPv4 and IPv6 networks
- IRF capability
  Provides single IP address management for a resilient virtual switching fabric of up to nine switches
- Ring resiliency protection protocol
  Provides standard sub-50 ms recovery for a ring Ethernet-based topology

### Manageability

- RMON
  Provides advanced monitoring and reporting capabilities for statistics, history, alarms, and events

### L2 switching

- 16/32k MAC address table
  Provides access to many L2 devices
- VLAN support and tagging
  Supports IEEE 802.1Q with 4,094 simultaneous VLAN IDs
- GARP VLAN registration protocol
  Allows automatic learning and dynamic assignment of VLANs

- IEEE 802.1ad Q-in-Q and selective Q-in-Q
  Increase the scalability of an Ethernet network by providing a hierarchical structure; and connect multiple LANs on a high-speed campus or metro network
- Gigabit Ethernet port aggregation
  Allows grouping of ports to increase overall data throughput to a remote device
- Internet-group-management protocol (IGMP) and multicast-listener-discovery protocol snooping
  Controls and manages the flooding of multicast packets in an L2 network

**L3 services**

- Address resolution protocol (ARP)
  Determines the MAC address of another IP host in the same subnet
- DHCP
  Simplifies the management of large IP networks and supports both clients and servers; DHCP relay enables DHCP operation across subnets
- Loopback interface address
  Defines an address in the RIP and open standard path first (OSPF), improving the diagnostic capability
- User datagram protocol (UDP) helper function
  Allows UDP broadcasts to be directed across router interfaces to specific IP unicast or subnet broadcast addresses; and helps prevent server spoofing for UDP services such as DHCP
- Route maps
  Provide more control during route redistribution; and allow filtering and altering of route metrics

**L3 routing**

- IPv4 routing protocols
  Support static routes and RIP
- IPv6 routing protocols
  Provide routing of IPv6 at wire speeds; and support static routes and RIPng
- IPv6 tunneling
  Allows a smooth transition from IPv4 to IPv6 by encapsulating IPv6 traffic over an existing IPv4 infrastructure
- ECMP
  Enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth
- Bidirectional forwarding detection
  Enables link connectivity monitoring and reduces network convergence time for the VRRP, static routing, and IRF

**Security**

- ACL enablement
  Provides IP L2 to L4 traffic filtering; and supports VLAN ACL and port ACL
- Multiple user authentication methods
  - IEEE 802.1X
    Uses an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server to authenticate in accordance with industry standards
  - Web-based authentication
    Provides a browser-based environment, similar to IEEE 802.1X, to authenticate clients that do not support the IEEE 802.1X supplicant
  - MAC-based authentication
    Authenticates the client with a RADIUS server, based on the client's MAC address

- 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 the day—allowing multiple types of users on the same network to access specific network services without risking network security or allowing unauthorized access to sensitive data
  - Automatic VLAN assignment
    Assigns users automatically to the appropriate VLAN, based on their identities
- Secure management access
  Delivers secure encryption of all access methods (CLI, GUI, or MIB) through SSHv2, SSL, and/or SNMPv3
- Secure FTP
  Allows secure file transfer to and from the switch; and protects against unwanted file downloads or unauthorized copying of a switch configuration file
- Guest VLAN
  Provides a browser-based environment to authenticated clients that are similar to IEEE 802.1X
- Endpoint admission defense
  Assigns security policies to users accessing a network
- 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 helps prevent malicious attackers from obtaining user information
- STP bridge protocol data units (BPDUs) port protection
  Blocks BPDUs on ports that do not require BPDUs, mitigating forged BPDU attacks
- STP root guard
  Protects the root bridge from malicious attacks or configuration mistakes
- DHCP protection
  Blocks DHCP packets from unauthorized DHCP servers, mitigating denial-of-service attacks
- Dynamic ARP protection
  Blocks ARP broadcasts from unauthorized hosts, helping prevent eavesdropping or theft of network data
- IP source guard
  Filters packets on a per-port basis, which helps prevent illegal packets from being forwarded
- RADIUS/HWTACACS
  Eases switch management security administration by using a password authentication server
- Multiple customer edge
  Facilitates MPLS VPN network integration with support for up to 63 VPNs

**Convergence**

- IEEE 802.1ab LLDP
  Facilitates easy mapping using network management applications with LLDP-automated device discovery protocol
- LLDP-media endpoint discovery (MED)
  Is a standard extension that automatically configures network devices, including LLDP-capable IP phones
- LLDP-Cisco discovery protocol (CDP) compatibility
  Receives and recognizes CDP packets from Cisco's IP phones for seamless interoperation

- PoE allocations
  Supports multiple methods—automatic, IEEE 802.3af class, LLDP-MED, or user specified—to allocate PoE power for more efficient energy use
- Voice VLAN
  Assigns VLAN and priority for IP phones automatically, simplifying network configuration and maintenance
- IP multicast snooping (data-driven IGMP)
  Helps prevent flooding of IP multicast traffic
- Multicast VLAN
  Allows multiple VLANs to receive the same multicast traffic, reducing network bandwidth demand by mitigating multiple streams to each VLAN

### Device support

- Cisco pre-standard PoE support
  Detects and provides power to Cisco's pre-standard PoE devices, such as wireless LAN access points and IP phones

### 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

- Limited Lifetime Warranty 2.0
  Advance hardware replacement with next-business-day delivery (available in most countries). See hp.com/networking/warrantysummary for duration details
- Electronic and telephone support (for Limited Lifetime Warranty 2.0)
  Limited 24x7 telephone support is provided by HP for the first three years; limited electronic and telephone support during business hours is provided by HP for the complete warranty period; to reach our support centers, visit hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, visit hp.com/networking/warrantysummary
- Software releases
  To find software for your product, visit hp.com/networking/support; for details on the software releases available with your product purchase, visit hp.com/networking/warrantysummary

# HP 3600 SI Switch Series

## Specifications

| | HP 3600–24 v2 SI Switch (JG304B) | HP 3600–48 v2 SI Switch (JG305B) |
|---|---|---|
| **Ports** | 24 RJ45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Media Type: Auto-MDIX; Duplex: half or full<br>4 SFP 1000 Mbps ports<br>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)<br>1 RJ45 serial console port | 48 RJ45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Media Type: Auto-MDIX; Duplex: half or full<br>4 SFP 1000 Mbps ports<br>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)<br>1 RJ45 serial console port |
| **Physical characteristics** | 17.32(w) x 10.24(d) x 1.72(h) in. (43.99 x 26.01 x 4.37 cm) (1U height) | 17.32(w) x 10.24(d) x 1.72(h) in. (43.99 x 26.01 x 4.37 cm) (1U height) |
| Weight | 11.02 lb (5 kg) | 8.82 lb (4 kg) |
| **Memory and processor** | 256 MB SDRAM, 128 MB flash; packet buffer size: 2 MB | 256 MB SDRAM, 128 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** | | |
| 100 Mb Latency | < 6 µs | < 6 µs |
| 1000 Mb Latency | < 5 µs | < 5 µs |
| Throughput | 9.5 million pps | 13.1 million pps (64-byte packets) |
| Routing/Switching capacity | 12.8 Gb/s | 17.6 Gb/s |
| Routing table size | 2048 entries (IPv4) | 2048 entries (IPv4) |
| **Environment** | | |
| Operating temperature | 32°F to 122°F (0°C to 50°C) | 32°F to 122°F (0°C to 50°C) |
| Operating relative humidity | 5% to 95%, non-condensing | 5% to 95%, non-condensing |
| Non-operating/Storage temperature | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) |
| Non-operating/Storage relative humidity | 5% to 95%, non-condensing | 5% to 95%, non-condensing |
| Acoustic | Low-speed fan: 39.5 dB, High-speed fan: 48.4 dB | Low-speed fan: 43.2 dB, High-speed fan: 50 dB |
| **Electrical characteristics** | | |
| Maximum heat dissipation | 89 BTU/hr (93.9 kJ/hr) | 140 BTU/hr (147.7 kJ/hr) |
| Voltage | 100–240 VAC | 100–240 VAC |
| Maximum power rating | 26 W | 41 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 CISPR 22 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 61000-3-3:199 +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 CISPR 22 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 |
| **Services** | Refer to the HP website at hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office. | Refer to the HP website at 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 3600 SI Switch Series (continued)

## Specifications (continued)

| | HP 3600-24-PoE+ v2 SI Switch (JG306C) | HP 3600-48-PoE+ v2 SI Switch (JG307C) |
|---|---|---|
| **Ports** | 24 RJ45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: half or full<br>4 SFP 1000 Mbps ports<br>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)<br>1 RJ45 serial console port | 48 RJ45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Duplex: half or full<br>4 SFP 1000 Mbps ports<br>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)<br>1 RJ45 serial console port |
| **Physical characteristics** | 17.32(w) x 16.54(d) x 1.72(h) in. (44.0 x 42.0 x 4.36 cm) (1U height) | 17.32(w) x 16.54(d) x 1.72(h) in. (43.99 x 42.01 x 4.37 cm) (1U height) |
| Weight | 22.05 lb (10 kg) | 22.05 lb (10 kg) |
| **Memory and processor** | 256 MB SDRAM, 128 MB flash; packet buffer size: 2 MB | 256 MB SDRAM, 128 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** | | |
| 100 Mb Latency | < 6 µs | < 6 µs |
| 1000 Mb Latency | < 5 µs | < 5 µs |
| Throughput | 9.5 million pps (64-byte packets) | 13.1 million pps (64-byte packets) |
| Routing/Switching capacity | 12.8 Gb/s | 17.6 Gb/s |
| Routing table size | 2048 entries (IPv4) | 2048 entries (IPv4) |
| **Environment** | | |
| Operating temperature | 32°F to 122°F (0°C to 50°C) | 32°F to 122°F (0°C to 50°C) |
| Operating relative humidity | 5% to 95%, non-condensing | 5% to 95%, non-condensing |
| Non-operating/Storage temperature | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) |
| Non-operating/Storage relative humidity | 5% to 95%, non-condensing | 5% to 95%, non-condensing |
| Acoustic | Low-speed fan: 44.7 dB, High-speed fan: 53.8 dB | Low-speed fan: 43.5 dB, High-speed fan: 55 dB |

# HP 3600 SI Switch Series (continued)

## Specifications (continued)

| | HP 3600-24-PoE+ v2 SI Switch (JG306C) | HP 3600-48-PoE+ v2 SI Switch (JG307C) |
|---|---|---|
| **Electrical characteristics** | | |
| Maximum heat dissipation | 143 BTU/hr (150.86 kJ/hr) | 198 BTU/hr (208.89 kJ/hr) |
| Voltage | 100–240 VAC | 100–240 VAC |
| DC voltage | -52 to -55 VDC | -52 to -55 VDC |
| Maximum power rating | 795 W | 820 W |
| PoE power | 720 W | 720 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 percent traffic, all ports plugged in, and all modules populated.<br>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).<br>With AC input, the maximum power consumption is 460 W; PoE/PoE+ is 370 W. With DC input, the maximum power consumption is 795 W; PoE/PoE+ is 720 W. | 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 percent traffic, all ports plugged in, and all modules populated.<br>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).<br>With AC input, the maximum power consumption is 440 W; PoE/PoE+ is 320 W. With DC input, the maximum power consumption is 820 W; PoE/PoE+ is 720 W. |
| **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 CISPR 22 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 CISPR 22 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 |
| **Services** | Refer to the HP website at hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office. | Refer to the HP website at 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 3600 SI Switch Series (continued)

## Specifications (continued)

**Standards and protocols**
(applies to all products in series)

**Device management**
RFC 1157 SNMPv1/v2c
RFC 1901–1907 SNMPv2c, SMIv2, and Revised MIB-II
RFC 2573 (SNMPv3 Applications)
RFC 2578–2580 SMIv2
RFC 2819 (RMON groups Alarm, Event, History, and Statistics only)
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

**General protocols**
IEEE 802.1ad Q-in-Q
IEEE 802.1D MAC Bridges
IEEE 802.1p Priority
IEEE 802.1Q VLANs
IEEE 802.1s (MSTP) RFC 768 UDP
IEEE 802.1v VLAN classification by Protocol and Port
IEEE 802.1w Rapid Reconfiguration of Spanning Tree
IEEE 802.1X PAE
IEEE 802.3 Type 10BASE-T
IEEE 802.3ab 1000BASE-T
IEEE 802.3ac (VLAN Tagging Extension)
IEEE 802.3ad Link Aggregation Control Protocol (LACP)
IEEE 802.3af Power over Ethernet
IEEE 802.3at Power over Ethernet Plus
IEEE 802.3i 10BASE-T
IEEE 802.3u 100BASE-X
IEEE 802.3x Flow Control
IEEE 802.3z 1000BASE-X
RFC 783 TFTP Protocol (revision 2)
RFC 791 IP
RFC 792 ICMP
RFC 793 TCP
RFC 826 ARP
RFC 1058 RIPv1
RFC 1213 Management Information Base for Network Management of TCP/IP-based Internets
RFC 1812 IPv4 Routing RFC 2131 DHCP
RFC 2236 IGMP Snooping
RFC 2338 VRRP
RFC 2453 RIPv2
RFC 2644 Directed Broadcast Control
RFC 2665 Definitions of Managed Objects for the Ethernet-like Interface Types
RFC 2711 IPv6 Router Alert Option
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 3416 Protocol Operations for SNMP
RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP)

**IPv6**
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 2711 IPv6 Router Alert Option
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 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 4113 MIB for UDP
RFC 4291 IP Version 6 Addressing Architecture
RFC 4293 MIB for IP
RFC 4861 Neighbor Discovery for IPv6
RFC 4862 IPv6 Stateless Address Auto-configuration
RFC 5095 Deprecation of Type 0 Routing Headers in IPv6

**QoS/CoS**
RFC 4594 Configuration Guidelines for DiffServ Service Classes

**Network management**
IEEE 802.1ab Link Layer Discovery Protocol (LLDP)
RFC 1157 SNMPv1
RFC 1757 RMON 4 groups: Stats, History, Alarms, and Events
RFC 1901 SNMPv2 Introduction
RFC 1902 Structure of Management Information for Version 2 of the Simple Network Management Protocol (SNMPv2)
RFC 1903 SNMPv2 Textual Conventions
RFC 1904 SNMPv2 Conformance
RFC 1905 SNMPv2 Protocol Operations
RFC 1906 SNMPv2 Transport Mappings
RFC 2570 SNMPv3 Overview
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
RFC 2578 Structure of Management Information Version 2 (SMIv2)
RFC 2579 Textual Conventions for SMIv2
RFC 2580 Conformance Statements for SMIv2
RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm), and 9 (events)
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

**MIBs**
RFC 1213 MIB II
RFC 1493 Bridge MIB
RFC 1724 RIPv2 MIB
RFC 1757 Remote Network Monitoring MIB
RFC 1907 SNMPv2 MIB
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 2574 SNMP USM MIB
RFC 2618 RADIUS Authentication Client MIB
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 2863 The Interfaces Group MIB
RFC 3414 SNMP User based-SM MIB

# HP 3600 SI Switch Series accessories

| | |
|---|---|
| (applies to all products in series) | |
| **Transceivers** | HP X125 1G SFP LC LH40 1310nm Transceiver (JD061A)<br>HP X120 1G SFP LC LH40 1550nm Transceiver (JD062A)<br>HP X125 1G SFP LC LH70 Transceiver (JD063B)<br>HP X120 1G SFP RJ45 T Transceiver (JD089B)<br>HP X120 1G SFP LC BX 10-U Transceiver (JD098B)<br>HP X120 1G SFP LC BX 10-D Transceiver (JD099B)<br>HP X120 1G SFP LC SX Transceiver (JD118B)<br>HP X120 1G SFP LC LX Transceiver (JD119B) |
| **Cables** | HP 3600 Switch SFP Stacking Kit (JD324B)<br>HP 0.5m Multi-mode OM3 LC/LC Optical Cable (AJ833A)<br>HP 1m Multi-mode OM3 LC/LC Optical Cable (AJ834A)<br>HP 2m Multi-mode OM3 LC/LC Optical Cable (AJ835A)<br>HP 5m Multi-mode OM3 LC/LC Optical Cable (AJ836A)<br>HP 15m Multi-mode OM3 LC/LC Optical Cable (AJ837A)<br>HP 30m Multi-mode OM3 LC/LC Optical Cable (AJ838A)<br>HP 50m Multi-mode OM3 LC/LC Optical Cable (AJ839A)<br>HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable (QK732A)<br>HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable (QK733A)<br>HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable (QK734A)<br>HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable (QK735A)<br>HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable (QK736A)<br>HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A) |
| **Power supply** | HP RPS1600 Redundant Power System (JG136A)<br>HP RPS1600 1600W AC Power Supply (JG137A) |
| **Power cords** | HP X290 1000 A JD5 2m RPS Cable (JD187A) |

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4AA3-0722ENW, April 2015, Rev. 9