



Key features

- For enterprise edge, distribution, data center
- · Cut-through design with low latency
- Support for up to 84 ports
- · OAA module for flexible deployment
- Redundant, hot-swappable power supplies, fans

Product overview

HP 5800 series switches offer an unmatched combination of Gigabit and 10-Gigabit Ethernet port density, high-availability architecture, and full Layer 2 and Layer 3 dual-stack IPv4 and IPv6 capabilities. In addition to wire-speed line-rate performance on all ports, the switches include patented Intelligent Resilient Framework (IRF) technology and Rapid Ring Protection Protocol (RRPP), which allow local or geographically distributed HP 5800 switches to be interconnected for higher resiliency and performance. Available in PoE and non-PoE models as well as 1 RU and 2 RU form factor configurations, HP 5800 switches are built on open standards and include an open application architecture (OAA) module slot that enables flexible deployment options for new services. These versatile switches are ideal for use in the network core of buildings or departments, or as high-performance switches in the convergence layer or network edge of enterprise campus networks.

Features and benefits

Quality of Service (QoS)

Powerful QoS feature

creates traffic classes based on access control lists (ACLs), IEEE 802.1p precedence, IP, and DSCP or Type of Service (ToS) precedence; supports filter, redirect, mirror, or remark; supports the following congestion actions: strict priority (SP) queuing, weighted round robin (WRR), weighted fair queuing (WFQ), weighted random early discard (WRED), weighted deficit round robin (WDRR), and SP+WDRR

Integrated network services

with support for open application architecture (OAA) modules, extends and integrates application capability into the network

Ring Resiliency Protection Protocol (RRPP)

provides fast recovery for ring Ethernet-based topology; provides consistent application performance for applications such as VoIP

Management

Remote configuration and management

enables configuration and management through a secure Web browser or a CLI located on a remote device

• IEEE 802.1ab LLDP discovery

advertises and receives management information from adjacent devices on a network, facilitating easy mapping by network management applications

USB support

File copy

allows users to copy switch files to and from a USB flash drive

DHCP options

- DNS Relay and SMTP Redirection
- DHCP Server (RFC 2131), Client, and Option-82 Relay (RFC 3046)

sFlow

provides scalable, ASIC-based network monitoring and accounting, which allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes

SNMPv1, v2c, and v3

facilitate centralized discovery, monitoring, and secure management of networking devices

• Network Time Protocol (NTP)

synchronizes timekeeping among distributed time servers and clients; keeps timekeeping consistent among all clock-dependent devices within the network so that the devices can provide diverse applications based on the consistent time

Connectivity

· High-density port connectivity

supports up to 84 1-Gigabit ports per unit (612 per stack)

Auto-MDIX

automatically adjusts for straight-through or crossover cables on all 10/100 ports

Jumbo frames

on Gigabit Ethernet and 10-Gigabit ports, jumbo frames of 9k size allow high-performance remote backup and disaster-recovery services

• IEEE 802.3af Power over Ethernet (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 Power over Ethernet (PoE+) support

simplifies deployment and dramatically reduces installation costs by helping to eliminate the time and cost involved in supplying local power at each access point location

· IPv6 native support

- IPv6 host

enables switches to be managed and deployed at the IPv6 network's edge

- Dual stack (IPv4/IPv6)

transitions from IPv4 to IPv6, supporting connectivity for both protocols

MLD snooping

forwards IPv6 multicast traffic to the appropriate interface

- IPv6 ACL/OoS

supports ACL and QoS for IPv6 network traffic, preventing traffic flooding

- IPv6 routing

supports IPv6 static routes and IPv6 versions of RIP, OSPF, IS-IS, and BGP routing protocols

Performance

· Hardware-based wire-speed access control lists (ACLs)

help provide high levels of security and ease of administration without impacting network performance with a feature-rich TCAM-based ACL implementation

Unique versatile architecture

supports the best of both fixed-port and modular configurations

Resiliency and high availability

• Data center–optimized design

the HP 5800AF-48G Switch (JG225A) supports front-to-back/back-to-front airflow for hot/cold aisles, rear rack mounts, and redundant hot-swappable AC or DC power and fans

Manageability

• Full-featured console

provides complete control of the switch with a familiar CLI

Web interface

allows configuration of the switch from any Web browser on the network

RMON and sFlow

provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events

· Multiple configuration files

allow multiple configuration files to be stored to a flash image

Troubleshooting

Ingress and egress port monitoring enable network problem solving

- Traceroute and ping

enable testing of network connectivity

- Virtual cable tests

provide visibility to cable problems

Layer 2 switching

• GARP VLAN Registration Protocol

allows automatic learning and dynamic assignment of VLANs

• 32K MAC addresses

provide access to many Layer 2 devices

4,094 port-based VLANs

provide security between workgroups

• IEEE 802.1ad QinQ and selective QinQ

increase the scalability of an Ethernet network by providing a hierarchical structure; 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

• 10GbE port aggregation

allows grouping of ports to increase overall data throughput to a remote device

IPFIX/sFlow

allows traffic sampling

Spanning Tree Protocols (STP, MSTP, and RSTP) and STP root quard

helps prevent network loops; up to 32 MSTP instances available

Layer 3 services

Address Resolution Protocol (ARP)

determines the MAC address of another IP host in the same subnet; supports static ARPs; gratuitous ARP allows detection of duplicate IP addresses; proxy ARP allows normal ARP operation between subnets or when subnets are separated by a Layer 2 network

Dynamic Host Configuration Protocol (DHCP)

simplifies the management of large IP networks and supports client and server; DHCP Relay enables DHCP operation across subnets

Layer 3 routing

Layer 3 IPv4 routing

provides routing of IPv4 at media speed; supports static routes, RIP and RIPv2, OSPF, IS-IS, and BGP

· RIP and RIPng support

provides complete support of RIP for both IPv4 and IPv6

• OSPF and OSPFv3 support

provides complete support of OSPF for both IPv4 and IPv6

• IS-IS and IS-ISv6 support

provides complete support of IS-IS for both IPv4 and IPv6

· Layer 3 IPv6 routing

provides routing of IPv6 at media speed; supports static routes, RIPng, OSPFv3, IS-ISv6, and BGP4+

• Bidirectional Forwarding Detection (BFD)

enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP, IS-IS, VRRP, MPLS, and IRF

• Virtual Router Redundancy Protocol (VRRP) and VRRP Extended allow quick failover of router ports

Policy-based routing

makes routing decisions based on policies set by the network administrator

• IGMPv1, v2, and v3

allow individual hosts to be registered on a particular VLAN

• PIM-SSM, PIM-DM, and PIM-SM (for IPv4 and IPv6)

support IP Multicast address management and inhibition of DoS attacks

Equal-Cost Multipath (ECMP)

enables multiple equal-cost links in a routing environment to increase link redundancy and scale bandwidth

• **NEW MPLS support**

provides extended support of MPLS, including MPLS VPNs and MPLS Traffic Engineering (MPLS TE)

NEW VPLS support

provides extended support of VPLS for data center to data center communication at Layer 2; provides support of hierarchical VPLS for scalability

Security

Unicast Reverse Path Forwarding (URPF)

allows normal packets to be forwarded correctly, but discards the attaching packet due to lack of reverse path route or incorrect inbound interface; prevents source spoofing and distributed attacks; supports distributed UFPF

Defense-in-depth security

provides integrated and distributed security enforcement that can be managed from a central location, such as the HP Intelligent Management Center (IMC)

Advanced processor queuing mechanism

helps prevent denial-of-service (DoS) attacks, while DHCP snooping helps ensure that devices can only receive an IP address from a legitimate DHCP server on the network

IEEE 802.1X-based dynamic delivery of QoS, ACLs, and VLANs

allows complete control over user network access

Guest VLAN

provides a browser-based environment to authenticated clients that is similar to IEEE 802.1X

Port isolation

secures and adds privacy, and prevents malicious attackers from obtaining user information

MAC-based authentication

allows or denies access to the switch based on a client MAC address

HTTPS management

provides secure Web management

Multi-Customer Edge (MCE)-Multicast Virtual Routing and Forwarding (MVRF)

provide MPLS Edge router support

• Public Key Infrastructure (PKI)

is used to control access

RADIUS/HWTACACS

eases switch management security administration by using a password authentication server

Secure Shell (SSHv2)

encrypts all transmitted data for secure, remote CLI access over IP networks

IP Source Guard

helps prevent IP spoofing attacks; filters packets on a per-port basis, which prevents illegal packets from being forwarded

Access control lists (ACLs)

helps provide high levels of security and ease of administration; 6k ingress entries and 1k egress entries (IPv4 and IPv6)

Convergence

Voice VLAN

automatically assigns VLAN and priority for IP phones, simplifying network configuration and maintenance

Internet Group Management Protocol (IGMP)

utilizes Any-Source Multicast (ASM) or Source-Specific Multicast (SSM) to manage IPv4 multicast networks; supports IGMPv1, v2, and v3

Protocol Independent Multicast (PIM)

defines modes of Internet multicasting to allow one-to-many and many-to-many transmission of information; PIM Dense Mode (DM), Sparse Mode (SM), and Source-Specific Mode (SSM) are supported

LLDP-MED (Media Endpoint Discovery)

defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones

Monitor and diagnostics

Port mirroring

enables traffic on a port to be simultaneously sent to a network analyzer for monitoring

OAM (IEEE 802.3ah)

operations, administration and maintenance (OAM) management capability detects data link layer problems that occurred in the "last mile"; monitors the status of the link between the two devices

• CFD (IEEE 802.1ag)

connectivity fault detection (CFD) provides a Layer 2 link OAM mechanism used for link connectivity detection and fault locating

Additional information

• HP Intelligent Resilient Framework (IRF)

- creates virtual resilient switching fabrics, where two or more switches perform as a single Layer 2 switch and Layer 3 router
- does not require switches to be co-located and allows them to be part of a disaster-recovery system
- allows servers or switches to be attached using standard LACP for automatic load balancing and high availability
- simplifies network operation by eliminating the complexity of Spanning Tree Protocol, ECMP, or VRRP

OAA modules

support wireless network management and high-performance security applications; leverage network infrastructure investment

Green IT and power

improves energy efficiency through the use of the latest advances in silicon development; shuts off unused ports and utilizes variable-speed fans, reducing energy costs

· Higher scalability with IRF

simplifies the architecture of server access networks and reduces cost and complexity; up to nine 5800 Switches can be combined to deliver unmatched scalability of virtualized access layer switches and flatter, two-tier FlexFabric networks

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; to reach our support centers, refer to

www.hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to www.hp.com/networking/warrantysummary

Software releases

to find software for your product, refer to

www.hp.com/networking/support; for details on the software releases available with your product purchase, refer to www.hp.com/networking/warrantysummary

†HP warranty includes repair or replacement of hardware for as long as you own the product, with next business day advance replacement (available in most countries). The disk drive included with HP AllianceOne Advanced Services and Services 2l Modules, HP Threat Management Services 2l Module, HP AllianceOne Extended 2l Module with Riverbed Steelhead, HP MSM7652l Mobility Controller and HP Survivable Branch Communication 2l Module powered by Microsoft 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

	HIII HIII		Name
	HP 5800-24G-PoE+ Switch (JC099A)	HP 5800-24G Switch (JC100A)	HP 5800-24G-SFP Switch (JC103A)
Ports	24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3	24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3	24 SFP fixed Gigabit Ethernet SFP ports
	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	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 extended module slot
			4 fixed 1000/10000 SFP+ ports
	1 extended module slot	1 extended module slot	1 RJ-45 serial console port
	4 fixed 1000/10000 SFP+ ports	4 fixed 1000/10000 SFP+ ports	
	1 RJ-45 serial console port	1 RJ-45 serial console port	
Power supplies			2 power supply slots 1 minimum power supply required (ordered separately)
Physical characteristics			
	17.3(w) x 16.8(d) x 1.71(h) in (43.94 x 42.67 x 4.34 cm) (1U height)	17.32(w) x 14.35(d) x 1.72(h) in (44.0 x 36.45 x 4.36 cm) (1U height)	17.32(w) x 16.81(d) x 1.72(h) in (44.0 x 42.7 x 4.36 cm) (1U height)
Weight	17.64 lb (8 kg)	13.23 lb (6 kg)	18.74 lb (8.5 kg)
Memory and processor			
	1024 MB SDRAM, 512 MB flash; packet buffer size: 4 MB	1024 MB SDRAM, 512 MB flash; packet buffer size: 4 MB	1024 MB SDRAM, 512 MB flash; packet buffer size: 4 MB
Performance			
Latency	4.02 μs (Store and Forward) (64-byte packets)	4.02 µs (Store and Forward) (64-byte packets)	4.02 µs (Store and Forward) (64-byte packets)
Throughput	155 million pps	155 million pps	155 million pps
Routing/Switching capacity	208 Gb/s	208 Gb/s	208 Gb/s
Routing table size	16000 entries (IPv4)	16000 entries (IPv4)	16000 entries (IPv4)
MAC address table size	32000 entries	32000 entries	32000 entries
Environment			
Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Operating relative humidity	10% to 90%	10% to 90%	10% to 90%
Acoustic	Low-speed fan: 47.5 dB, High-speed fan: 52.4 dB	Low-speed fan: 42.3 dB, High-speed fan: 52.9 dB	Low-speed fan: 49.6 dB, High-speed fan: 58.1 dB
Electrical characteristics			
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Maximum heat dissipation			
•	2968 BTU/hr (3131.24 kJ/hr)	358 BTU/hr (377.69 kJ/hr)	498 BTU/hr (525.39 kJ/hr)
Voltage	100-120/200-240 VAC	100-120-240 VAC	100-120/200-240 VAC
DC voltage			–48 VDC to –60 VDC
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance
Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; 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	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; 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	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; 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
Immunity			
Generic	ETSI EN 300 386 V1.3.3	ETSI EN 300 386 V1.3.3	ETSI EN 300 386 V1.3.3
EN	EN 55024:1998+ A1:2001 + A2:2003	EN 55024:1998+ A1:2001 + A2:2003	EN 55024:1998+ A1:2001 + A2:2003
ESD	EN 61000-4-2; IEC 61000-4-2	EN 61000-4-2; IEC 61000-4-2	EN 61000-4-2; IEC 61000-4-2
Radiated	EN 61000-4-3; IEC 61000-4-3	EN 61000-4-3; IEC 61000-4-3	EN 61000-4-3; IEC 61000-4-3
EFT/Burst	EN 61000-4-4; IEC 61000-4-4	EN 61000-4-4; IEC 61000-4-4	EN 61000-4-4; IEC 61000-4-4
Surge	EN 61000-4-5; IEC 61000-4-5	EN 61000-4-5; IEC 61000-4-5	EN 61000-4-5; IEC 61000-4-5
Conducted	EN 61000-4-6; IEC 61000-4-6	EN 61000-4-6; IEC 61000-4-6	EN 61000-4-6; IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8; EN 61000-4-8	IEC 61000-4-8; EN 61000-4-8	IEC 61000-4-8; EN 61000-4-8
Voltage dips and interruptions	EN 61000-4-11; IEC 61000-4-11	EN 61000-4-11; IEC 61000-4-11	EN 61000-4-11; IEC 61000-4-11
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3	EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3	EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3
i desci	Lit 0 1000-3-3, IEC 0 1000-3-3	LIT 0 1000-3-3, IEC 0 1000-3-3	LIN 0 1000-3-3, IEC 0 1000-3-3

	HP 5800-24G-PoE+ Switch (JC099A)	HP 5800-24G Switch (JC100A)	HP 5800-24G-SFP Switch (JC103A)
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS; RMON1; FTP	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS; RMON1; FTP	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS; RMON1; FTP
Notes			The customer must order a power supply, as the device does not come with a PSU. At least one JD362A or JD366A is required.
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV882E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV882E)	3-year, 4-hour onsite, 13x5 coverage for hardware (UV882E)
	3-year, 4-hour onsite, 24x7 coverage for hardware (UV885E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UV885E)	3-year, 4-hour onsite, 24x7 coverage for hardware (UV885E)
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV888E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV888E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UV888E)
	3-year, 24x7 SW phone support, software updates (UV891E)	3-year, 24x7 SW phone support, software updates (UV891E)	3-year, 24x7 SW phone support, software updates (UV891E)
	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR565E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR565E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HRS65E)
	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR566E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR566E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR566E)
	4-year, 4-hour onsite, 13x5 coverage for hardware (UV883E)	Installation with minimum configuration, system-based pricing (UW451E)	Installation with minimum configuration, system-based pricing (UW451E)
	4-year, 4-hour onsite, 24x7 coverage for hardware (UV886E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UV883E)	4-year, 4-hour onsite, 13x5 coverage for hardware (UV883E)
	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV889E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UV886E)	4-year, 4-hour onsite, 24x7 coverage for hardware (UV886E)
	4-year, 24x7 SW phone support, software updates (UV892E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV889E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV889E)
	5-year, 4-hour onsite, 13x5 coverage for hardware (UV884E)	4-year, 24x7 SW phone support, software updates (UV892E)	4-year, 24x7 SW phone support, software updates (UV892E)
	5-year, 4-hour onsite, 24x7 coverage for hardware (UV887E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UV884E)	5-year, 4-hour onsite, 13x5 coverage for hardware (UV884E)
	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV890E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UV887E)	5-year, 4-hour onsite, 24x7 coverage for hardware (UV887E)
	5-year, 24x7 SW phone support, software updates (UV893E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV890E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UV890E)
	3 Yr 6 hr Call-to-Repair Onsite (UW969E)	5-year, 24x7 SW phone support, software updates (UV893E)	5-year, 24x7 SW phone support, software updates (UV893E)
	4 Yr 6 hr Call-to-Repair Onsite (UW970E)	3 Yr 6 hr Call-to-Repair Onsite (UW969E)	3 Yr 6 hr Call-to-Repair Onsite (UW969E)
	5 Yr 6 hr Call-to-Repair Onsite (UW971E)	4 Yr 6 hr Call-to-Repair Onsite (UW970E)	4 Yr 6 hr Call-to-Repair Onsite (UW970E)
	1-year, 6 hour Call-To-Repair Onsite for hardware (HR568E)	5 Yr 6 hr Call-to-Repair Onsite (UW971E)	5 Yr 6 hr Call-to-Repair Onsite (UW971E)
	1-year, 24x7 software phone support, software updates (HR567E)	1-year, 6 hour Call-To-Repair Onsite for hardware (HR568E)	1-year, 24x7 software phone support, software updates (HR567E)
	1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS650E)	1-year, 24x7 software phone support, software updates (HR567E)	1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS650E)
	1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS651E)	1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS650E)	1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS651E)
	3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS652E)	1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS651E)	3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS652E)
	3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS653E)	3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS652E)	3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS653E)
	4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS654E)	3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS653E)	4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS654E)
	4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS655E)	4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS654E)	4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS655E)
	5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS656E)	4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS655E)	5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS656E)

HP 5800-24G-PoE+ Switch (JC099A)	HP 5800-24G Switch (JC100A)	HP 5800-24G-SFP Switch (JC103A)
5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS657E)	5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS656E)	5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS657E)
Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS657E)	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area please contact your local HP sales office.
	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

	HP 5800-48G-PoE Switch (JC104A)	HP 5800-48G Switch (JC105A)
Ports	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
	1 extended module slot	1 extended module slot
	4 fixed 1000/10000 SFP+ ports	4 fixed 1000/10000 SFP+ ports
	1 RJ-45 serial console port	1 RJ-45 serial console port
Physical characteristics		
Weight	17.32(w) x 16.81(d) x 1.72(h) in (44.0 x 42.7 x 4.36 cm) (1U height) 18.74 lb (8.5 kg)	17.32(w) x 14.45(d) x 1.72(h) in (44.0 x 36.7 x 4.36 cm) (1U height) 14.33 lb (6.5 kg)
Memory and processor		
	1024 MB SDRAM, 512 MB flash; packet buffer size: 8 MB	1024 MB SDRAM, 512 MB flash; packet buffer size: 8 MB
Performance		
Latency	4.02 μs (Store and Forward) (64-byte packets)	4.02 μs (Store and Forward) (64-byte packets)
Throughput	190 million pps	190 million pps
Routing/Switching capacity	256 Gb/s	256 Gb/s
Routing table size	16000 entries (IPv4)	16000 entries (IPv4)
MAC address table size	32000 entries	32000 entries
Environment		
Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Operating relative humidity	10% to 90%	10% to 90%
Acoustic	Low-speed fan: 50.5 dB, High-speed fan: 57.9 dB	Low-speed fan: 45.3 dB, High-speed fan: 56.5 dB
Electrical characteristics		
Frequency	50/60 Hz	50/60 Hz
Maximum heat dissipation	3320 BTU/hr (3502.6 kJ/hr)	557 BTU/hr (587.64 kJ/hr)
Voltage	100-120/200-240 VAC	100-120/200-240 VAC
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NDM; ROHS Compliance	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Lase Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter 1; NDM; ROHS Compliance
Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; 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	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; 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
Immunity		
Generic	ETSI EN 300 386 V1.3.3	ETSI EN 300 386 V1.3.3
EN	EN 55024:1998+ A1:2001 + A2:2003	EN 55024:1998+ A1:2001 + A2:2003
ESD	EN 61000-4-2; IEC 61000-4-2	EN 61000-4-2; IEC 61000-4-2
Radiated	EN 61000-4-3; IEC 61000-4-3	EN 61000-4-3; IEC 61000-4-3
EFT/Burst	EN 61000-4-4; IEC 61000-4-4	EN 61000-4-4; IEC 61000-4-4
Surge	EN 61000-4-5; IEC 61000-4-5	EN 61000-4-5; IEC 61000-4-5
Conducted	EN 61000-4-6: IEC 61000-4-6	EN 61000-4-6: IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8; EN 61000-4-8	IEC 61000-4-8; EN 61000-4-8
Voltage dips and interruptions	EN 61000-4-11; IEC 61000-4-11	EN 61000-4-11; IEC 61000-4-11
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS; RMON1; FTP	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS; RMON1; FTP
Comiese		-
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (HQ063E)	3-year, 4-hour onsite, 13x5 coverage for hardware (HQ063E)
	3-year, 4-hour onsite, 24x7 coverage for hardware (HQ064E)	3-year, 4-hour onsite, 24x7 coverage for hardware (HQ064E)
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (HQ067E)	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (HQ067E)
	3-year, 24x7 SW phone support, software updates (HQ066E)	3-year, 24x7 SW phone support, software updates (HQ066E)
	1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR569E)	1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR569E)
	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR570E)	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR570E)
	Installation with minimum configuration, system-based pricing (UW451E) 4-year, 4-hour onsite, 13x5 coverage for hardware (HQ068E)	Installation with minimum configuration, system-based pricing (UW451E) 4-year, 4-hour onsite, 13x5 coverage for hardware (HQ068E)
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HP 5800-48G-PoE Switch (JC104A)	HP 5800-48G Switch (JC105A)
4-year, 4-hour onsite, 24x7 coverage for hardware (HQ069E)	4-year, 4-hour onsite, 24x7 coverage for hardware (HQ069E)
4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ076E)	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ076E)
4-year, 24x7 SW phone support, software updates (HQ074E)	4-year, 24x7 SW phone support, software updates (HQ074E)
5-year, 4-hour onsite, 13x5 coverage for hardware (HQ071E)	5-year, 4-hour onsite, 13x5 coverage for hardware (HQ071E)
5-year, 4-hour onsite, 24x7 coverage for hardware (HQ072E)	5-year, 4-hour onsite, 24x7 coverage for hardware (HQ072E)
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ077E)	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ077E)
5-year, 24x7 SW phone support, software updates (HQ075E)	5-year, 24x7 SW phone support, software updates (HQ075E)
3 Yr 6 hr Call-to-Repair Onsite (HQ065E)	3 Yr 6 hr Call-to-Repair Onsite (HQ065E)
4 Yr 6 hr Call-to-Repair Onsite (HQ070E)	4 Yr 6 hr Call-to-Repair Onsite (HQ070E)
5 Yr 6 hr Call-to-Repair Onsite (HQ073E)	5 Yr 6 hr Call-to-Repair Onsite (HQ073E)
1-year, 6 hour Call-To-Repair Onsite for hardware (HR573E)	1-year, 6 hour Call-To-Repair Onsite for hardware (HR573E)
1-year, 24x7 software phone support, software updates (HR572E)	1-year, 24x7 software phone support, software updates (HR572E)
1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR571E)	1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR571E)
1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS666E)	1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS666E)
1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS667E)	1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS667E)
Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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	HP 5800-48G Switch with 2 Slots (JC101A)	HP 5800AF-48G Switch (JG225A)
Ports	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
	2 extended module slots	6 fixed 1000/10000 SFP+ ports
	1 open module slot	1 RJ-45 serial console port
	4 SFP fixed Gigabit Ethernet SFP ports	1 RJ-45 out-of-band management port
	1 RJ-45 serial console port	1 USB 2.0
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)	2 power supply slots 1 minimum power supply required (ordered separately)
Fan tray		2 fan tray slots The customer must order fan trays, as fan trays are not included with the switch. This system requires two same-direction airflow fan trays to function property. The system should not be operated with only one fan tray for more than 24 hours. The system should not be operated without a fan tray more than two minutes. The system should not be operated outside of the temperature range of 32°F (0°C) to 113°F (45°C). Failure to comply with these operating requirements may void the product warranty.
Physical characteristics		
Weight	17.32(w) x 18.31(d) x 3.39(h) in (44.0 x 46.5 x 8.61 cm) (2U height) 39.7 lb (18.0 kg)	17.32(w) x 25.98(d) x 1.72(h) in (43.99 x 65.99 x 4.37 cm) (1U height) 22.05 lb (10 kg), Fully loaded
Memory and processor		
	1024 MB SDRAM, 512 MB flash; packet buffer size: 8 MB	1024 MB flash, 512 MB SDRAM; packet buffer size: 8 MB
Performance		
Latency	4.02 μs (Store and Forward) (64-byte packets)	< 5 μs (64-byte packets)
Throughput	211 million pps	161 million pps
Routing/Switching capacity	284 Gb/s	216 Gb/s
Routing table size MAC address table size	16000 entries (IPv4)	16000 entries (IPv4)
MAC dudi ess table size	32000 entries	32000 entries
Environment		
Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)
Operating relative humidity	10% to 90%	10% to 90%
Acoustic	Low-speed fan: 54 dB, High-speed fan: 58.5 dB	Low-speed fan: 60.1 dB, High-speed fan: 69.9 dB
Electrical characteristics		
Frequency	50/60 Hz	50/60 Hz
Maximum heat dissipation	6278 BTU/hr (6623.29 kJ/hr)	426 BTU/hr (449.43 kJ/hr)
Voltage	100-120/200-240 VAC	100-120/200-240 VAC
DC voltage	300 W DC: -48 VDC to -60 VDC; 750 W DC: -54 VDC to -57 VDC	650W DC: -36 VDC to -72 VDC
Safety	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance	UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; EN 60825-2 Safety of Laser Products-Part 2; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1; Anatel; ULAR; GOST; EN 60950-1/A11; FDA 21 CFR Subchapter J; NOM; ROHS Compliance
Emissions	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; 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	VCCI Class A; EN 55022 Class A; ICES-003 Class A; ANSI C63.4 2003; AS/NZS CISPR 22 Class A; 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
Immunity		
Generic	ETSI EN 300 386 V1.3.3	ETSI EN 300 386 V1.3.3
EN	EN 55024:1998+ A1:2001 + A2:2003	EN 55024:1998+ A1:2001 + A2:2003
ESD	EN 61000-4-2; IEC 61000-4-2	EN 61000-4-2; IEC 61000-4-2
Radiated	EN 61000-4-3; IEC 61000-4-3	EN 61000-4-3; IEC 61000-4-3
EFT/Burst	EN 61000-4-4; IEC 61000-4-4	EN 61000-4-4; IEC 61000-4-4
Surge	EN 61000-4-5; IEC 61000-4-5	EN 61000-4-5; IEC 61000-4-5
Conducted	EN 61000-4-6; IEC 61000-4-6	EN 61000-4-6; IEC 61000-4-6
conducted		•
Power frequency magnetic field	IEC 61000-4-8; EN 61000-4-8	IEC 61000-4-8; EN 61000-4-8
	IEC 61000-4-8; EN 61000-4-8 EN 61000-4-11; IEC 61000-4-11	IEC 61000-4-8; EN 61000-4-8 EN 61000-4-11; IEC 61000-4-11
Power frequency magnetic field		

	HP 5800-48G Switch with 2 Slots (JC101A)	HP 5800AF-48G Switch (JG225A)
Management	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS; RMON1; FTP	IMC - Intelligent Management Center; command-line interface; Web browser; SNMP Manager; Telnet; HTTPS; RMON1; FTP
Notes	The customer must order a power supply, as the device does not come with a PSU. At least one JC087A, JC090A, or JC089A is required.	The customer must order a power supply, as the device does not come with a PSU. At least one JC680A or JC681A is required.
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (HQ063E)	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.
	3-year, 4-hour onsite, 24x7 coverage for hardware (HQ064E)	
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (HQ067E)	
	3-year, 24x7 SW phone support, software updates (HQ066E)	
	1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR569E)	
	1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR570E)	
	Installation with minimum configuration, system-based pricing (UW451E)	
	4-year, 4-hour onsite, 13x5 coverage for hardware (HQ068E)	
	4-year, 4-hour onsite, 24x7 coverage for hardware (HQ069E)	
	4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ076E)	
	4-year, 24x7 SW phone support, software updates (HQ074E)	
	5-year, 4-hour onsite, 13x5 coverage for hardware (HQ071E)	
	5-year, 4-hour onsite, 24x7 coverage for hardware (HQ072E)	
	5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (HQ077E)	
	5-year, 24x7 SW phone support, software updates (HQ075E)	
	3 Yr 6 hr Call-to-Repair Onsite (HQ065E)	
	4 Yr 6 hr Call-to-Repair Onsite (HQ070E)	
	5 Yr 6 hr Call-to-Repair Onsite (HQ073E)	
	1-year, 6 hour Call-To-Repair Onsite for hardware (HR573E)	
	1-year, 24x7 software phone support, software updates (HR572E)	
	1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR571E)	
	1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS666E)	
	1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS667E)	
	Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

Standards and Protocols (applies to all products in series)			
General protocols	IEEE 802.1ag Service Layer OAM	RFC 793 TCP	RFC 2597 Assured Forwarding PHB Group
	IEEE 802.1D MAC Bridges	RFC 826 ARP	RFC 3046 DHCP Relay Agent Information Option
	IEEE 802.1p Priority	RFC 854 TELNET	RFC 3209 RSVP-TE Extensions to RSVP for LSP Tunnels
	IEEE 802.1Q VLANs	RFC 925 Multi-LAN Address Resolution	RFC 3576 Ext to RADIUS (CoA only)
	IEEE 802.1s (MSTP)	RFC 951 BOOTP	RFC 3584 Coexistence between Version 1 and Version 2
	IEEE 802.1v VLAN classification by Protocol and Port	RFC 1058 RIPv1	of the Internet-standard Network Management
	IEEE 802.1w Rapid Reconfiguration of Spanning Tree	RFC 1350 TFTP Protocol (revision 2)	Framework
	IEEE 802.1X PAE	RFC 1519 CIDR	RFC 3623 Graceful OSPF Restart RFC 3768 VRRP
	IEEE 802.3ad Link Aggregation Control Protocol (LACP)	RFC 1542 BOOTP Extensions	
	IEEE 802.3ae 10-Gigabit Ethernet	RFC 1812 IPv4 Routing	RFC 4090 Fast Reroute Extensions to RSVP-TE for LSP Tunnels
	IEEE 802.3af Power over Ethernet	RFC 2131 DHCP	RFC 4291 IP Version 6 Addressing Architecture
	IEEE 802.3at	RFC 2236 IGMP Snooping	RFC 4675 RADIUS VLAN & Priority
	IEEE 802.3x Flow Control	RFC 2370 OSPF Opaque LSA Option	RFC 4762 Virtual Private LAN Service (VPLS) Using Label
	RFC 768 UDP	RFC 2385 TCP MD5 Authentication for BGPv4	Distribution Protocol (LDP) Signaling
	RFC 792 ICMP	RFC 2453 RIPv2	802.1r - GARP Proprietary Attribute Registration
		RFC 2475 Architecture for Differentiated Services	Protocol (GPRP)
IP multicast	RFC 2934 Protocol Independent Multicast MIB for IPv4	RFC 3376 IGMPv3 (host joins only)	RFC 3973 Draft 2 PIM Dense Mode
		RFC 3618 Multicast Source Discovery Protocol (MSDP)	RFC 4601 PIM Sparse Mode
IPv6	RFC 2080 RIPng for IPv6	RFC 3162 RADIUS and IPv6	RFC 4253 SSHv6 Transport Layer
	RFC 2460 IPv6 Specification	RFC 3315 DHCPv6 (client and relay)	RFC 4254 SSHv6 Connection
	RFC 2710 Multicast Listener Discovery (MLD) for IPv6	RFC 3315 DHCPv6 (client only)	RFC 4293 MIB for IP
	RFC 2740 OSPFv3 for IPv6	RFC 3810 MLDv2 (host joins only)	RFC 4419 Key Exchange for SSH
	RFC 2925 Remote Operations MIB (Ping only)	RFC 4022 MIB for TCP	RFC 4443 ICMPv6
	RFC 3019 MLDv1 MIB	RFC 4251 SSHv6 Architecture	RFC 4541 IGMP & MLD Snooping Switch
		RFC 4252 SSHv6 Authentication	RFC 4861 IPv6 Neighbor Discovery
MIBs	IEEE 8021-PAE-MIB	RFC 2452 IPV6-TCP-MIB	RFC 2787 VRRP MIB
	IEEE 8023-LAG-MIB	RFC 2454 IPV6-UDP-MIB	RFC 2819 RMON MIB
	RFC 1213 MIB II	RFC 2465 IPv6 MIB	RFC 2925 Ping MIB
	RFC 1493 Bridge MIB	RFC 2466 ICMPv6 MIB	RFC 3414 SNMP-User based-SM MIB
	RFC 1657 BGP-4 MIB	RFC 2571 SNMP Framework MIB	RFC 3415 SNMP-View based-ACM MIB
	RFC 1724 RIPv2 MIB	RFC 2572 SNMP-MPD MIB	RFC 3418 MIB for SNMPv3
	RFC 1850 OSPFv2 MIB	RFC 2573 SNMP-Notification MIB	RFC 3621 Power Ethernet MIB
	RFC 2011 SNMPv2 MIB for IP	RFC 2618 RADIUS Client MIB	RFC 3826 AES for SNMP's USM MIB
	RFC 2013 SNMPv2 MIB for UDP	RFC 2620 RADIUS Accounting MIB	RFC 4133 Entity MIB (Version 3)
	RFC 2233 Interface MIB	RFC 2665 Ethernet-Like-MIB	LLDP-EXT-DOT1-MIB
	RFC 2273 SNMP-NOTIFICATION-MIB	RFC 2674 802.1p and IEEE 802.1Q Bridge MIB	LLDP-EXT-DOT3-MIB
		RFC 2688 MAU-MIB	LLDP-MIB
Network management	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)	RFC 2819 Four groups of RMON: 1 (statistics), 2 (history),	ANSI/TIA-1057 LLDP Media Endpoint Discovery
		3 (alarm) and 9 (events)	(LLDP-MED)
		RFC 3176 sFlow	SNMPv1/v2c/v3
OSPF		RFC 2328 OSPFv2	RFC 3101 OSPF NSSA
Security	IEEE 802.1X Port Based Network Access Control	RFC 2865 RADIUS (client only)	Secure Sockets Layer (SSL)
	DEC 4 440 TAGAGE	255 255 250 250 25	course of H

RFC 2866 RADIUS Accounting Access Control Lists (ACLs) SSHv2 Secure Shell

RFC 1492 TACACS+

HP 5800 Switch Series accessories

Modules

HP 5800 4-port 10GbE SFP+ Module (JC091A)

HP 5800 2-port 10GbE SFP+ Module (JC092B)

HP 5800 16-port Gig-T Module (JC094A)

HP 5800 16-port SFP Module (JC095A)

Transceivers

HP X125 1G SFP LC LH40 1310nm Transceiver (JD061A)

HP X120 1G SFP LC LH40 1550nm Transceiver (JD062A)

HP X125 1G SFP LC LH70 Transceiver (JD063B)

HP X120 1G SFP LC SX Transceiver (JD118B)

HP X120 1G SFP LC LX Transceiver (JD119B)

HP X120 1G SFP RJ45 T Transceiver (JD089B)

HP X120 1G SFP LC BX 10-U Transceiver (JD098B)

HP X120 1G SFP LC BX 10-D Transceiver (JD099B)

HP X110 100M SFP LC LH40 Transceiver (JD090A)

HP X110 100M SFP LC LH80 Transceiver (JD091A)

HP X115 100M SFP LC BX 10-U Transceiver (JD100A)

HP X115 100M SFP LC BX 10-D Transceiver (JD101A)

HP X110 100M SFP LC FX Transceiver (JD102B)

HP X110 100M SFP LC LX Transceiver (JD120B)

HP X130 10G SFP+ LC SR Transceiver (JD092B)

HP X130 10G SFP+ LC LRM Transceiver (JD093B)

HP X130 10G SFP+ LC LR Transceiver (JD094B)

HP X130 10G SFP+ LC ER 40km Transceiver (JG234A)

HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable (JD095C)

HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable (JD096C)

HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (JD097C)

HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable (JG081C)

HP X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable (JC784C)

Cables

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable (QK732A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable (QK733A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable (QK734A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable (QK735A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable (QK736A)

HP Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A)

Power Supply

HP 5800/5500 150W AC Power Supply (JD362A)

HP 5800/5500 150W DC Power Supply (JD366A)

HP 5800 300W AC Power Supply (JC087A)

HP 5800 300W DC Power Supply (JC090A)

HP 5800 750W AC Power Supply (JC089A)

HP RPS 800 Redundant Power Supply (JD183A)

HP RPS1600 Redundant Power System (JG136A)

HP RPS1600 1600W AC Power Supply (JG137A)

EPS/RPS

HP 5800 PoE Module (JC097B)

Fan Tray

HP 5800 2RU Spare Fan Assembly (JC096A)

HP 5800 1RU Spare Fan Assembly (JC098A)

Appliance

HP 5820 VPN Firewall Module (JD255A)

HP 5800-48G Switch with 2 Slots (JC101A)

HP 5820 VPN Firewall Module (JD255A)

HP 5800AF-48G Switch (JG225A)

HP 58x0AF 650W AC Power Supply (JC680A)

HP 58x0AF 650W DC Power Supply (JC681A)

HP 58x0AF Back (power side) to Front (port side) Airflow Fan Tray (JC682A)

HP 58x0AF Front (port side) to Back (power side) Airflow Fan Tray (JC683A)

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