



# HPE 5800 TAA-compliant Switch Series



## Key features

- For enterprise core, distribution, data center
- Flex chassis with modular resiliency
- Support for up to 84 ports
- OAA module for flexible deployment
- Redundant, hot-swappable power supplies, fans

## Product overview

HPE 5800 TAA-compliant Switch Series offers 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 HPE 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, HPE 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; this 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 Ethernet ports per unit (612 per stack)
- Auto-MDIX  
Automatically adjusts for straight-through or crossover cables on all 10/100 ports
- Jumbo frames  
Are supported on 10GbE and GbE ports, with a maximum frame size of 9K; allow high-performance backups and disaster-recovery systems

- 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+)  
Provides up to 30 W per port that allows 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; obviates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments
- 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/QoS  
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

### 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
- Spanning Tree/MSTP, RSTP, and STP root guard  
Prevent network loops
- IPFIX/sFlow  
Allows traffic sampling

### 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 RIPv2 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, RIPv2, 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
- MPLS support  
Provides extended support of MPLS, including MPLS VPNs and MPLS Traffic Engineering (MPLS TE)
- 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 URPF
- Defense-in-depth security  
Provides integrated and distributed security enforcement that can be managed from a central location, such as the HPE Intelligent Management Center (IMC)
- Advanced processor queuing mechanism  
Helps prevent denial of service (DoS) attacks, while DHCP snooping helps facilitate 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
- IP source guard  
Helps prevent IP spoofing attacks
- 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  
Filters packets on a per-port basis, which prevents illegal packets from being forwarded

### 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; supports PIM Dense Mode (DM), Sparse Mode (SM), and Source-Specific Mode (SSM)
- 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**

- HPE 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 helping eliminate 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
- High scalability with IRF  
HPE Intelligent Resilient Framework (IRF) technology simplifies the architecture of server access networks; up to nine 5800 switches can be combined to deliver unmatched scalability of virtualized access layer switches and flatter, two-tier FlexFabric networks using IRF, which reduces cost and complexity

**Warranty and support**

- 1-year warranty  
See [hpe.com/networking/warrantysummary](https://www.hpe.com/networking/warrantysummary) for warranty and support information included with your product purchase
- Software releases  
To find software for your product, refer to [hpe.com/networking/support](https://www.hpe.com/networking/support); for details on the software releases available with your product purchase, refer to [hpe.com/networking/warrantysummary](https://www.hpe.com/networking/warrantysummary)

## HPE 5800 TAA-compliant Switch Series

### Specifications



**HPE 5800-24G-PoE+ TAA-compliant Switch (JG254B)**



**HPE 5800-24G TAA-compliant Switch (JG255B)**



**HPE 5800-24G-SFP TAA-compliant Switch with 1 Interface Slot (JG256B)**

	HPE 5800-24G-PoE+ TAA-compliant Switch (JG254B)	HPE 5800-24G TAA-compliant Switch (JG255B)	HPE 5800-24G-SFP TAA-compliant Switch with 1 Interface Slot (JG256B)
<b>I/O ports and slots</b>	24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only  1 extended module slot  4 fixed 1000/10000 SFP+ ports  1 RJ-45 serial console port	24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only  1 extended module slot  4 fixed 1000/10000 SFP+ ports  1 RJ-45 serial console port	24 SFP fixed Gigabit Ethernet SFP ports  1 extended module slot  4 fixed 1000/10000 SFP+ ports  1 RJ-45 serial console port
<b>Power supplies</b>	Included	Included	2 power supply slots 1 minimum power supply required (ordered separately)
<b>Physical characteristics</b>			
Dimensions	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. (43.99 x 36.45 x 4.37 cm) (1U height)	17.32(w) x 16.81(d) x 1.72(h) in. (43.99 x 42.7 x 4.37 cm) (1U height)
Weight	17.64 lb (8 kg)	13.23 lb (6 kg)	18.74 lb (8.5 kg)
<b>Memory and processor</b>	2048 MB SDRAM, 512 MB flash; packet buffer size: 4 MB	2048 MB SDRAM, 512 MB flash; packet buffer size: 4 MB	2048 MB SDRAM, 512 MB flash; packet buffer size: 4 MB
<b>Performance</b>			
Latency	4.02 $\mu$ s (Store and Forward) (64-byte packets)	4.02 $\mu$ s (Store and Forward) (64-byte packets)	4.02 $\mu$ s (Store and Forward) (64-byte packets)
Throughput	155 million pps	155 million pps	155 million pps
Routing/Switching capacity	208 Gbps	208 Gbps	208 Gbps
Routing table size	16000 entries (IPv4)	16000 entries (IPv4)	16000 entries (IPv4)
MAC address table size	32000 entries	32000 entries	32000 entries
<b>Environment</b>			
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
<b>Electrical characteristics</b>			
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)
AC voltage	100–120/200–240 VAC	100–120/120–240 VAC	100–120/200–240 VAC
<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; 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

## Specifications (continued)

	HPE 5800-24G-PoE+ TAA-compliant Switch (JG254B)	HPE 5800-24G TAA-compliant Switch (JG255B)	HPE 5800-24G-SFP TAA-compliant Switch with 1 Interface Slot (JG256B)
<b>Emissions</b>	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
<b>Immunity</b>			
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 61000-3-3; IEC 61000-3-3	EN 61000-3-3; IEC 61000-3-3	EN 61000-3-3; IEC 61000-3-3
<b>Management</b>	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
<b>Notes</b>	N/A	N/A	Customer must order a power supply, as the device does not come with a PSU. At least one JD362A/JD362B or JD366A/JD366B is required.
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <a href="https://hpe.com/networking/services">hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services, and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	Refer to the Hewlett Packard Enterprise website at <a href="https://hpe.com/networking/services">hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services, and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	Refer to the Hewlett Packard Enterprise website at <a href="https://hpe.com/networking/services">hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services, and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

## HPE 5800 TAA-compliant Switch Series

### Specifications



**HPE 5800-48G-PoE+ TAA-compliant Switch with 1 Interface Slot (JG257B)**



**HPE 5800-48G TAA-compliant Switch with 1 Interface Slot (JG258B)**



**HPE 5800-48G-PoE+ TAA-compliant Switch with 2 Interface Slots (JG242B)**

	HPE 5800-48G-PoE+ TAA-compliant Switch with 1 Interface Slot (JG257B)	HPE 5800-48G TAA-compliant Switch with 1 Interface Slot (JG258B)	HPE 5800-48G-PoE+ TAA-compliant Switch with 2 Interface Slots (JG242B)
<b>I/O ports and slots</b>	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	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	2 extended module slots
	4 fixed 1000/10000 SFP+ ports	4 fixed 1000/10000 SFP+ ports	1 open module slot
	1 RJ-45 serial console port	1 RJ-45 serial console port	4 SFP fixed Gigabit Ethernet SFP ports  1 RJ-45 serial console port
<b>Power supplies</b>	Included	Included	2 power supply slots 1 minimum power supply required (ordered separately)
<b>Physical characteristics</b>			
Dimensions	17.32(w) x 16.81(d) x 1.72(h) in. (43.99 x 42.7 x 4.37 cm) (1U height)	17.32(w) x 14.45(d) x 1.72(h) in. (43.99 x 36.7 x 4.37 cm) (1U height)	17.32(w) x 18.31(d) x 3.39(h) in. (44.0 x 46.5 x 8.61 cm) (2U height)
Weight	18.74 lb (8.5 kg)	14.33 lb (6.5 kg)	39.7 lb (18.0 kg)
<b>Memory and processor</b>	2048 MB SDRAM, 512 MB flash; packet buffer size: 8 MB	2048 MB SDRAM, 512 MB flash; packet buffer size: 8 MB	2048 MB SDRAM, 512 MB flash; packet buffer size: 8 MB
<b>Performance</b>			
Latency	4.02 $\mu$ s (Store and Forward)	4.02 $\mu$ s (Store and Forward)	4.02 $\mu$ s (Store and Forward)
Throughput	(64-byte packets)	(64-byte packets)	(64-byte packets)
Routing/Switching capacity	190 million pps	190 million pps	211 million pps
Routing table size	256 Gbps	256 Gbps	284 Gbps
MAC address table size	16000 entries (IPv4) 32000 entries	16000 entries (IPv4) 32000 entries	16000 entries (IPv4) 32000 entries
<b>Environment</b>			
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: 50.5 dB, High-speed fan: 57.9 dB	Low-speed fan: 45.3 dB, High-speed fan: 56.5 dB	Low-speed fan: 54 dB, High-speed fan: 58.5 dB



## Specifications (continued)

	HPE 5800-48G-PoE+ TAA-compliant Switch with 1 Interface Slot (JG257B)	HPE 5800-48G TAA-compliant Switch with 1 Interface Slot (JG258B)	HPE 5800-48G-PoE+ TAA-compliant Switch with 2 Interface Slots (JG242B)
<b>Electrical characteristics</b>			
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Maximum heat dissipation	3320 BTU/hr (3502.6 kJ/hr)	557 BTU/hr (587.64 kJ/hr)	6278 BTU/hr (6623.29 kJ/hr)
AC voltage	100–120/200–240 VAC	100–120/200–240 VAC	100–120/200–240 VAC
<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; 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
<b>Emissions</b>	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
<b>Immunity</b>			
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 61000-3-3; IEC 61000-3-3	EN 61000-3-3; IEC 61000-3-3	EN 61000-3-3; IEC 61000-3-3
<b>Management</b>	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
<b>Notes</b>	N/A	N/A	Customer must order a power supply, as the device does not come with a PSU. At least one JCO87A/JCO90A/JCO89A is required. For the switch to provide Power over Ethernet, at least one PoE power supply (JCO89A) is needed, along with the PoE TAA-compliant module (JG260A).
<b>Services</b>	Refer to the Hewlett Packard Enterprise website at <a href="https://www.hpe.com/networking/services">hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services, and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	Refer to the Hewlett Packard Enterprise website at <a href="https://www.hpe.com/networking/services">hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services, and response times in your area, please contact your local Hewlett Packard Enterprise sales office.	Refer to the Hewlett Packard Enterprise website at <a href="https://www.hpe.com/networking/services">hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services, and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

**Standards and Protocols**

(applies to all products in series)

<b>General protocols</b>	IEEE 802.1ag Service Layer OAM IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s (MSTP) IEEE 802.1v VLAN classification by Protocol and Port IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.1X PAE IEEE 802.3ad Link Aggregation Control Protocol (LACP)	IEEE 802.3ae 10-Gigabit Ethernet IEEE 802.3x Flow Control RFC 768 UDP RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 925 Multi-LAN Address Resolution RFC 951 BOOTP RFC 1058 RIPv1 RFC 1350 TFTP Protocol (revision 2)	RFC 1519 CIDR RFC 1542 BOOTP Extensions RFC 2131 DHCP RFC 2453 RIPv2 RFC 3046 DHCP Relay Agent Information Option RFC 3576 Ext to RADIUS (CoA only) RFC 3768 VRRP RFC 4675 RADIUS VLAN & Priority 802.1r—GARP Proprietary Attribute Registration Protocol (GPRP)
<b>IP multicast</b>	RFC 2934 Protocol Independent Multicast MIB for IPv4 RFC 3376 IGMPv3 (host joins only)	RFC 3618 Multicast Source Discovery Protocol (MSDP) RFC 3973 Draft 2 PIM Dense Mode	RFC 4601 PIM Sparse Mode
<b>IPv6</b>	RFC 2080 RIPng for IPv6 RFC 2460 IPv6 Specification RFC 2710 Multicast Listener Discovery (MLD) for IPv6 RFC 2740 OSPFv3 for IPv6 RFC 2925 Remote Operations MIB (Ping only) RFC 3019 MLDv1 MIB RFC 3162 RADIUS and IPv6	RFC 3315 DHCPv6 (client and relay) RFC 3315 DHCPv6 (client only) RFC 3810 MLDv2 (host joins only) RFC 4022 MIB for TCP RFC 4251 SSHv6 Architecture RFC 4252 SSHv6 Authentication RFC 4253 SSHv6 Transport Layer	RFC 4254 SSHv6 Connection RFC 4293 MIB for IP RFC 4419 Key Exchange for SSH RFC 4443 ICMPv6 RFC 4541 IGMP & MLD Snooping Switch RFC 4861 IPv6 Neighbor Discovery RFC 4862 IPv6 Stateless Address Auto-configuration
<b>MIBs</b>	IEEE 8021-PAE-MIB IEEE 8023-LAG-MIB RFC 1213 MIB II RFC 1493 Bridge MIB RFC 1657 BGP-4 MIB RFC 1724 RIPv2 MIB RFC 1850 OSPFv2 MIB RFC 2011 SNMPv2 MIB for IP RFC 2013 SNMPv2 MIB for UDP RFC 2233 Interface MIB RFC 2273 SNMP-Notification-MIB RFC 2452 IPv6-TCP-MIB	RFC 2454 IPv6-UDP-MIB RFC 2465 IPv6 MIB RFC 2466 ICMPv6 MIB RFC 2571 SNMP Framework MIB RFC 2572 SNMP-MPD MIB RFC 2573 SNMP-Notification MIB RFC 2618 RADIUS Client MIB RFC 2620 RADIUS Accounting MIB RFC 2665 Ethernet-Like-MIB RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 2688 MAU-MIB RFC 2787 VRRP 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 3621 Power Ethernet MIB RFC 3826 AES for SNMP's USM MIB RFC 4133 Entity MIB (version 3) LLDP-EXT-DOT1-MIB LLDP-EXT-DOT3-MIB LLDP-MIB
<b>Network management</b>	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)	RFC 2819 four groups of RMON: 1 (statistics), 2 (history), 3 (alarm), and 9 (events) RFC 3176 sFlow	ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3
<b>OSPF</b>	RFC 2328 OSPFv2	RFC 3101 OSPF NSSA	
<b>Security</b>	IEEE 802.1X Port Based Network Access Control RFC 1492 TACACS+	RFC 2865 RADIUS (client only) RFC 2866 RADIUS Accounting	Secure Sockets Layer (SSL) SSHv2 Secure Shell

## HPE 5800 TAA-compliant Switch Series accessories

(applies to all products in series)

### Transceivers

HPE X125 1G SFP LC LH40 1310nm Transceiver (JD061A)  
 HPE X120 1G SFP LC LH40 1550nm Transceiver (JD062A)  
 HPE X125 1G SFP LC LH70 Transceiver (JD063B)  
 HPE X130 10G SFP+ LC SR Transceiver (JD092B)  
 HPE X130 10G SFP+ LC LRM Transceiver (JD093B)  
 HPE X130 10G SFP+ LC LR Transceiver (JD094B)  
 HPE X130 10G SFP+ LC ER 40km Transceiver (JG234A)  
 HPE X110 100M SFP LC FX Transceiver (JD102B)  
 HPE X120 1G SFP LC SX Transceiver (JD118B)  
 HPE X120 1G SFP LC LX Transceiver (JD119B)  
 HPE X110 100M SFP LC LX Transceiver (JD120B)  
 HPE X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable (JD095C)  
 HPE X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable (JD096C)  
 HPE X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (JD097C)  
 HPE X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable (JG081C)  
 HPE X120 1G SFP RJ45 T Transceiver (JD089B)

### Cables

HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable (QK732A)  
 HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable (QK733A)  
 HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable (QK734A)  
 HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable (QK735A)  
 HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable (QK736A)  
 HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable (QK737A)

### Power supply

HPE RPS 800 Redundant Power Supply (JD183A)  
 HPE RPS1600 Redundant Power System (JG136A)  
 HPE RPS1600 1600W AC Power Supply (JG137A)

### HPE 5800-48G-PoE+ TAA-compliant Switch with 2 Interface Slots (JG242B)

HPE 5800 4-port 10GbE SFP+ Module (JC091A)  
 HPE 5800 2-port 10GbE SFP+ Module (JC092B)  
 HPE 5800 16-port Gig-T Module (JC094A)  
 HPE 5800 16-port SFP Module (JC095A)  
 HPE 5800 300W AC Power Supply (JC087A)  
 HPE 5800 750W AC Power Supply (JC089A)  
 HPE 5800 300W DC Power Supply (JC090A)  
 HPE 5800 PoE TAA-compliant Module (JG260A)  
 HPE 5800 2RU Spare Fan Assembly (JC096A)

### HPE 5800-24G-PoE+ TAA-compliant Switch (JG254B)

HPE 5800 4-port 10GbE SFP+ Module (JC091A)  
 HPE 5800 2-port 10GbE SFP+ Module (JC092B)  
 HPE 5800 16-port Gig-T Module (JC094A)  
 HPE 5800 16-port SFP Module (JC095A)  
 HPE 5800 1RU Spare Fan Assembly (JC098A)

### HPE 5800-24G TAA-compliant Switch (JG255B)

HPE 5800 4-port 10GbE SFP+ Module (JC091A)  
 HPE 5800 2-port 10GbE SFP+ Module (JC092B)  
 HPE 5800 16-port Gig-T Module (JC094A)  
 HPE 5800 16-port SFP Module (JC095A)  
 HPE 5800 1RU Spare Fan Assembly (JC098A)

## Data sheet

(applies to all products in series) (continued)

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<b>HPE 5800-24G-SFP TAA-compliant Switch with 1 Interface Slot (JG256B)</b>	HPE 5800 4-port 10GbE SFP+ Module (JC091A)
	HPE 5800 2-port 10GbE SFP+ Module (JC092B)
	HPE 5800 16-port Gig-T Module (JC094A)
	HPE 5800 16-port SFP Module (JC095A)
	HPE X361 150W AC Power Supply (JD362B)
	HPE X361 150W DC Power Supply (JD366B)
	HPE 5800 1RU Spare Fan Assembly (JC098A)

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<b>HPE 5800-48G-PoE+ TAA-compliant Switch with 1 Interface Slot (JG257B)</b>	HPE 5800 4-port 10GbE SFP+ Module (JC091A)
	HPE 5800 2-port 10GbE SFP+ Module (JC092B)
	HPE 5800 16-port Gig-T Module (JC094A)
	HPE 5800 16-port SFP Module (JC095A)
	HPE 5800 1RU Spare Fan Assembly (JC098A)

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<b>HPE 5800-48G TAA-compliant Switch with 1 Interface Slot (JG258B)</b>	HPE 5800 4-port 10GbE SFP+ Module (JC091A)
	HPE 5800 2-port 10GbE SFP+ Module (JC092B)
	HPE 5800 16-port Gig-T Module (JC094A)
	HPE 5800 16-port SFP Module (JC095A)
	HPE 5800 1RU Spare Fan Assembly (JC098A)

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