HP 2530 Switch Series





Key features

- Cost-effective, reliable, protected, and fully managed L2 switches
- 8, 24, or 48 Gigabit or Fast Ethernet ports with up to four Gigabit or two 10 Gigabit uplink ports
- PoE+ models for voice, video, and wireless deployments
- Access control lists (ACLs), EEE, and IPv4/IPv6 host support
- Limited Lifetime Warranty 2.0 with 3 years 24x7 phone support

Product overview

The HP 2530 Switch Series consists of 17 fully managed L2 edge switches that deliver cost-effective, reliable, protected and easy-to-use connectivity to business networks. Designed for entry-level to midsize enterprise networks, these Gigabit and Fast Ethernet switches deliver full L2 capabilities with optional Power over Ethernet (PoE), enhanced access security, traffic prioritization, and IPv6 host support.

The HP 2530 Switch Series offers uplink flexibility with either four Gigabit or two 10 Gigabit Ethernet uplinks on some 24- and 48-port models. The Gigabit 24- and 48-port models have either two small form-factor pluggable plus (SFP+) or four small form-factor pluggable (SFP) slots for fiber connectivity. The Fast Ethernet 24- and 48-port models have two SFPs and two RJ-45 Gigabit uplinks. The compact and fan-less 8-port switches offer additional flexibility with two dual-personality ports that can be used as either RJ-45 Gigabit Ethernet or SFP ports. Moreover, the HP 2530 Switch Series PoE+ Switches are IEEE 802.3af- and IEEE 802.3at-compliant with up to 30 W per port, making them suitable for voice, video, or wireless deployments with PoE+.

The switch series is easy to use, deploy, and manage via the SNMP, CLI, and Web GUI. It offers flexible wall, table, and rack mounting options; quiet operation with fan-less and variable-speed fan models; and improved power savings with features such as IEEE 802.3az energy-efficient Ethernet. And it includes Limited Lifetime Warranty 2.0 with 3 years 24x7 phone support and includes all software releases.

Features and benefits

Quality of Service

• Traffic prioritization (IEEE 802.1p)

Allows real-time traffic classification with support for eight priority levels mapped to either two or four queues, and uses weighted deficit round-robin (WDRR) or strict priority

- Simplified quality of service (QoS) configuration
- Port-based

Prioritizes traffic by specifying a port and priority level

- VLAN-based

Prioritizes traffic by specifying a VLAN and priority level

Class of Service (CoS)

Sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ

Rate limiting

Establishes per-port ingress-enforced maximums for all ingressed traffic or for broadcast, multicast, or unknown destination traffic

Layer 4 prioritization

Enables prioritization based on TCP/UDP port numbers

• Flow control

Helps deliver reliable communication during full-duplex operation

Management

- Choice of management interfaces
- HTML-based easy-to-use Web GUI

Allows configuration of the switch from any Web browser

- Robust CLI

Provides advanced configuration and diagnostics

- Simple network management protocol (SNMPv1/v2c/v3)

Allows the switch to be managed with a variety of third-party network management applications

Virtual stacking

Provides single IP address management for up to 16 switches

• sFlow[®] (RFC 3176)

Delivers wire-speed traffic accounting and monitoring, configured by SNMP and CLI with three terminal encrypted receivers

• IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

Automates device discovery protocol for easy mapping by network management applications

Logging

Provides local and remote logging of events via SNMP (v2c and v3) and syslog; provides log throttling and log filtering to reduce the number of log events generated

Port mirroring

Allows traffic to be mirrored on any port or a network analyzer to assist with diagnostics or detecting network attacks

• Remote monitoring (RMON)

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

• Find, fix, and inform

Finds and fixes common network problems automatically, and then informs the administrator

• Friendly port names

Allows assignment of descriptive names to ports

Dual flash images

Provides independent primary and secondary operating system files for backup while upgrading

• Multiple configuration files

Are easily stored with a flash image

- Front-panel LEDs
- Locator LEDs

Allows users to set the locator LED on a specific switch to turn on, blink, or turn off; and simplifies troubleshooting by making it easy to locate a particular switch within a rack of similar switches

- Per-port LEDs

Provides an at-a-glance view of the status, activity, speed, and full-duplex operation

- Power and fault LEDs

Display issues, if any

- HP Comware CLI
- Comware-compatible CLI

Bridges the experience of HP Comware CLI users who are using the HP ProVision software CLI $\,$

- Display and fundamental Comware CLI commands

Are embedded in the switch CLI as native commands; display output is formatted as on Comware-based switches, and fundamental commands provide a Comware-familiar initial switch setup

- Configuration Comware CLI commands

When Comware commands are entered, CLI helps elicit to formulate the correct ProVision software CLI command

• NEW Download software via DHCP

Adds the option to specify the location of switch software via DHCP

• NEW TR-069 support

Enables zero-touch configuration for switches

Connectivity

- IPv6
- IPv6 host

Allows the switch to be deployed and managed at the edge of an IPv6 network

- Dual stack (IPv4/IPv6)

Supports connectivity for both protocols; provides a transition mechanism from IPv4 to IPv6

- MLD snooping

Forwards IPv6 multicast traffic to appropriate interface; prevents IPv6 multicast traffic from flooding the network

- IPv6 ACL/QoS

Supports ACL and QoS for IPv6 network traffic on Gigabit and 48 port 10/100 models

Security

RA Guard, DHCPv6 Protection, Dynamic IPv6 Lockdown (YA only)

• 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 PoE+

Provides up to 30 W per port to IEEE 802.3 for PoE/PoE+-powered devices such as video IP phones, IEEE 802.11n wireless access points, and advanced pan/tilt/zoom security cameras (refer to the product specifications for the total PoE power availability)

• Auto-MDIX

Adjusts automatically for straight-through or crossover cables on all ports

• Pre-standard PoE support

Detects and provides power to pre-standard PoE devices (refer to the list of supported devices in the product FAQs, which can be accessed at hp.com/networking/support)

SFP slots

Provides fiber connectivity such as Gigabit-SX, LX, LH, and BX with four SFP slots on all 24- and 48-port Gigabit Ethernet models. Fast Ethernet 24- and 48-port models have two SFP slots and two RJ-45 Gigabit uplinks; 8-port models have two dual-personality ports supporting either SFP or RJ-45 Gigabit uplinks

• Dual-personality (RJ-45 or USB micro-B) serial console port

Gives easy access to switch CLI with front-of-switch location and the flexibility of using either an RJ-45 or USB micro-B serial console port

Layer 2 switching

VLANs

Provides support for 512 VLANs and 4,094 VLAN IDs

Jumbo packet support

Supports up to 9,220-byte frame size to improve the performance of large data transfers; 8- and 24-port Fast Ethernet models automatically support up to 2,000-byte frames with no configuration needed

• 16K MAC address table

Provides access to many Layer 2 devices

• GARP VLAN Registration Protocol

Allows automatic learning and dynamic assignment of VLANs

• NEW Rapid Per-VLAN Spanning Tree (RPVST+)

Allows each VLAN to build a separate spanning tree to improve link bandwidth usage; is compatible with PVST+

Security

ACLs

Accommodates IPv4/IPv6 port and VLAN-based ACLs (IPv6 ACL is supported only on Gigabit Ethernet and 48-port models.)

Source-port filtering

Allows only specified ports to communicate with each other

• RADIUS/TACACS+

Eases switch management security administration by using a password authentication server

• Secure Sockets Layer (SSL)

Encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch

Port security

Allows access only to specified MAC addresses, which can be learned or specified by the administrator

MAC address lockout

Prevents particular configured MAC addresses from connecting to the network

- 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 the RADIUS server based on the client's MAC address

• Secure shell (SSH) v2

Encrypts all transmitted data for safe remote CLI access over IP networks

• Secure shell

Encrypts all transmitted data for safe remote CLI access over IP networks

STP BPDU port protection

Blocks Bridge Protocol Data Units (BPDUs) on ports that do not require BPDUs, preventing forged BPDU attacks

• STP root guard

Protects the root bridge from malicious attacks or configuration mistakes

• Secure management access

Delivers protected encryption of all access methods (CLI, GUI, or MIB) through SSHv2 and SNMPv3

Custom banner

Displays security policy when users log in to the switch

• Secure FTP

Allows safe file transfer to and from the switch; protects against unwanted file downloads or unauthorized copying of a switch configuration file

Protected ports CLI

Offers intuitive CLI to configure the source-port filter feature, by allowing specified ports to be isolated from all other ports on the switch; the protected port or ports can communicate only with the uplink or shared resources

- Authentication flexibility
- Multiple IEEE 802.1X users per port

Provides authentication for up to 32 IEEE 802.1X users per port; prevents a user from "piggybacking" on another user's IEEE 802.1X authentication

- Concurrent IEEE 802.1X and Web or MAC authentication schemes per port
 Allows a switch port to accept any IEEE 802.1X and either Web or MAC authentications
- Switch management logon security

Helps secure switch CLI logon by optionally requiring either RADIUS or TACACS+ authentication

• NEW DHCP protection

Blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks

• NEW Dynamic ARP protection

Blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data

• NEW Dynamic IP lockdown

Works with DHCP protection to block traffic from unauthorized hosts, preventing IP source address spoofing

Convergence

• IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

Facilitates easy mapping using network management applications with LLDP automated device discovery protocol

• 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

• IP multicast (data-driven IGMP)

Prevents flooding of IP multicast traffic

• PoE and PoE+ allocations

Support multiple methods—automatic, IEEE 802.3at dynamic, LLDP-MED fine grain, IEEE 802.3af device class, or user specified—to allocate and manage PoE/PoE+ power for more efficient energy use

Voice VLAN

Uses LLDP-MED to automatically configure a VLAN for IP phones

• IP multicast (data-driven IGMPv3)

Prevents flooding of IP multicast traffic

• LLDP-CDP compatibility

Receives and recognizes CDP packets from Cisco's IP phones for seamless interoperation

• NEW Local MAC Authentication

Assigns attributes such as VLAN and QoS using locally configured profile that can be a list of MAC prefixes Unified Wired and Wireless

• NEW HTTP redirect function

Supports HP Intelligent Management Center (IMC) bring your own device (BYOD) solution

Resiliency and high availability

- Port trunking and link aggregation
- Trunking

Supports up to eight links per trunk to increase bandwidth and create redundant connections; and supports L2, L3, and L4 trunk load-balancing algorithm (L4 trunk load balancing is supported only on Gigabit Ethernet and 48-port models.)

- IEEE 802.3ad Link Aggregation Control Protocol (LACP)

Eases configuration of trunks through automatic configuration

• IEEE 802.1s Multiple Spanning Tree

Provides high link availability in multiple VLAN environments by allowing multiple spanning trees; provides legacy support for IEEE 802.1d and IEEE 802.1w

• NEW SmartLink

Provides easy-to-configure link redundancy of active and standby links

Product architecture

- Energy-efficient design
- IEEE 802.3az

Reduces power consumption during periods of low data activity on Gigabit Ethernet switches

- Port low-power mode

Enables the port to automatically go into low-power mode to conserve energy when no link is detected

- Fan-less and variable-speed fans

Decreases power consumption in fan-less (all 8-port, 2530-24, and 2530-48 PoE+ switches) as well as variable-speed fan switches

- Port LEDs

Conserves energy by optionally turning off port link and activity LEDs

Switch on a chip

Provides a highly integrated, high-performance switch design with a nonblocking architecture

Flexibility

- Flexible mounting
- Rack mountable

Allows the switch to be mounted on a standard 19-inch rack, with the hardware included

- Wall mountable

Allows the switch to be mounted on a wall, using the hardware included

Surface mountable

Allows the switch to be mounted above or below a surface (such as a desk or table), using the hardware included

Quiet operation

Lowers noise, making it suitable for deployments in acoustically sensitive environments such as conference rooms and office spaces

Compact size

Reduces space requirements (refer to the product specifications for the exact dimensions)

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 available from HP for the first 3 years; limited electronic and business hours telephone support is available from HP for the entire warranty period; to reach our support centers, refer to hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to hp.com/networking/warrantysummary

• Software releases

To find software for your product, refer to $\underline{\text{hp.com/networking/support}}$; for details on the software releases available with your product purchase, refer to $\underline{\text{hp.com/networking/warrantysummary}}$

HP 2530 Switch Series

Specifications







HP 2530-48G-PoE+ Switch (J9772A)

HP 2530-24G-PoE+ Switch (J9773A)

HP 2530-8G-PoE+ Switch (J9774A)

I/O ports and slots

48 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 fixed Gigabit Ethernet SFP ports 1 dual-personality (RJ-45 or USB micro-B) serial console port 24 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 fixed Gigabit Ethernet SFP ports 1 dual-personality (RJ-45 or USB micro-B) serial console port 8 RJ-45 autosensing 10/100/1000 PoE+ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10BASE-T; IEEE 802.3u Type 100BASE-TX; IEEE 802.3ab 1000BASE-T Gigabit Ethernet) or as a SFP slot (for use with SFP transceivers) 1 dual-personality (RJ-45 or USB micro-B) serial console port

Physical characteristics

Dimensions 17.44(w) x 13.00(d) x 1.75(h) in (44.3 x 32.26 x 4.45 cm) (1U height)
Weight 10.4 lb (4.72 kg)

 $17.44(w) \times 13.00(d) \times 1.75(h)$ in (44.3 × 33.02 × 4.45 cm) (1U height) 8.7 lb (3.95 kg)

10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height) 2.2 lb (1 kg)

Memory and processor

Processor

ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 3 MB dynamically allocated ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated

Mounting and enclosure

Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting

Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting

Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting

Performance

100 Mb Latency 1000 Mb Latency Throughput Switching capacity MAC address table size IPv6 Ready Certified < 7.4 µs (LIFO 64-byte packets) < 2.3 µs (LIFO 64-byte packets) up to 77.3 Mpps (64-byte packets) 104 Gb/s 16000 entries IPv6 Ready Certified < 7.4 µs (LIFO 64-byte packets) < 2.3 µs (LIFO 64-byte packets) up to 41.6 Mpps (64-byte packets) 56 Gb/s 16000 entries IPv6 Ready Certified
< 7.4 μs (LIFO 64-byte packets)
< 2.6 μs (LIFO 64-byte packets)
up to 14.8 Mpps (64-byte packets)
20 Gb/s
16000 entries

Environment

Acoustic

Operating temperature Operating relative humidity Nonoperating/Storage temperature Nonoperating/Storage relative humidity Altitude 32°F to 113°F (0°C to 45°C) 15% to 95% @ 104°F (40°C), noncondensing -40°F to 158°F (-40°C to 70°C) 15% to 90% @ 149°F (65°C), noncondensing up to 10,000 ft (3 km) Power: 43.6 dB, Pressure: 33.6 dB 32°F to 113°F (0°C to 45°C) 15% to 95% @ 104°F (40°C), noncondensing -40°F to 158°F (-40°C to 70°C) 15% to 90% @ 149°F (65°C), noncondensing up to 10,000 ft (3 km) Power: 43.9 dB, Pressure: 39.6 dB

32°F to 113°F (0°C to 45°C) 15% to 95% @ 104°F (40°C), noncondensing -40°F to 158°F (-40°C to 70°C) 15% to 90% @ 149°F (65°C), noncondensing up to 10,000 ft (3 km) Power: 0 dB, Pressure: 0 dB

	HP 2530-48G-PoE+ Switch (J9772A)	HP 2530-24G-PoE+ Switch (J9773A)	HP 2530-8G-PoE+ Switch (J9774A)
Electrical characteristics			
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Maximum heat dissipation	236 BTU/hr (248.98 kJ/hr), (switch only:	135 BTU/hr (142.42 kJ/hr), (switch only:	65 BTU/hr (68.58 kJ/hr), (switch only:
	236 BTU/hr; combined switch + max. PoE	135 BTU/hr; combined switch + max. PoE	65 BTU/hr; combined switch + max. PoE
	devices: 1624 BTU/hr)	devices: 843 BTU/hr)	devices: 293 BTU/hr)
AC voltage	100-127/200-240 VAC	100-127/200-240 VAC	100-127/200-240 VAC
Current	5.8/2.9 A	3.2/1.6 A	1.4 A
Maximum power rating	476 W	247 W	86 W
Idle power	40.1 W	25.2 W	13.4 W
PoE power	382 W	195 W	67 W
	Notes		
	Idle power is the actual power consumption	Idle power is the actual power consumption	Idle power is the actual power consumption
	of the device with no ports connected.	of the device with no ports connected.	of the device with no ports connected.
	Maximum power rating and maximum heat	Maximum power rating and maximum heat	Maximum power rating and maximum heat
	dissipation are the worst-case theoretical	dissipation are the worst-case theoretical	dissipation are the worst-case theoretical
	maximum numbers provided for planning	maximum numbers provided for planning	maximum numbers provided for planning
	the infrastructure with fully loaded PoE (if	the infrastructure with fully loaded PoE (if	the infrastructure with fully loaded PoE (if
	equipped), 100% traffic, all ports plugged	equipped), 100% traffic, all ports plugged	equipped), 100% traffic, all ports plugged
	in, and all modules populated.	in, and all modules populated.	in, and all modules populated.
	PoE power is the total power budget	PoE power is the total power budget	PoE power is the total power budget
	available to all PoE ports.	available to all PoE ports.	available to all PoE ports.
Safety	UL 60950-1; CAN/CSA 22.2 No. 60950-1;	UL 60950-1; CAN/CSA 22.2 No. 60950-1;	UL 60950-1; CAN/CSA 22.2 No. 60950-1;
	EN 60825; IEC 60950-1; EN 60950-1	EN 60825; IEC 60950-1; EN 60950-1	EN 60825; IEC 60950-1; EN 60950-1
Emissions	FCC Class A; EN 55022/CISPR-22 Class A;	FCC Class A; EN 55022/CISPR-22 Class A;	FCC Class A; EN 55022/CISPR-22 Class A;
	VCCI Class A	VCCI Class A	VCCI Class A
Immunity			
Generic	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 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
Management	IMC—Intelligent Management Center;	IMC—Intelligent Management Center;	IMC—Intelligent Management Center;
	command-line interface; Web browser;	command-line interface; Web browser;	command-line interface; Web browser;
	configuration menu; out-of-band	configuration menu; out-of-band	configuration menu; out-of-band
	management (serial RS-232C or Micro	management (serial RS-232C or Micro	management (serial RS-232C or Micro
	USB); IEEE 802.3 Ethernet MIB; Repeater	USB); IEEE 802.3 Ethernet MIB; Repeater	USB); IEEE 802.3 Ethernet MIB; Repeater
	MIB; Ethernet Interface MIB	MIB; Ethernet Interface MIB	MIB; Ethernet Interface MIB
Notes	IEEE 802.3az applies to Gigabit models	IEEE 802.3az applies to Gigabit models	IEEE 802.3az applies to Gigabit models
	only; IEEE 802.3at and IEEE 802.3af apply	only; IEEE 802.3at and IEEE 802.3af apply	only; IEEE 802.3at and IEEE 802.3af apply
	to PoE+ models only. When using SFPs with	to PoE+ models only. When using SFPs with	to PoE+ models only. When using SFPs with
	this product, SFPs with revision "B" or later	this product, SFPs with revision "B" or later	this product, SFPs with revision "B" or later
	(product number ends with the letter "B" or	(product number ends with the letter "B" or	(product number ends with the letter "B" or
	later, e.g., J4858B, J4859C) are required.	later, e.g., J4858B, J4859C) are required.	later, e.g., J4858B, J4859C) are required.
Services	Refer to the HP website at hp.com/	Refer to the HP website at hp.com/	Refer to the HP website at hp.com/
	networking/services for details on the	networking/services for details on the	networking/services for details on the
	service-level descriptions and product	service-level descriptions and product	service-level descriptions and product
	numbers. For details about services and	numbers. For details about services and	numbers. For details about services and
	response times in your area, please contact	response times in your area, please contact	response times in your area, please contact
	your local HP sales office.	your local HP sales office.	your local HP sales office.

Specifications (continued)



HP 2530-48-PoE+ Switch (J9778A)

< 2.2 µs (LIFO 64-byte packets)

up to 13 Mpps (64-byte packets)

32°F to 113°F (0°C to 45°C)

up to 10,000 ft (3 km)

-40°F to 158°F (-40°C to 70°C)

Power: 37.9 dB, Pressure: 31.8 dB

15% to 95% @ 104°F (40°C), noncondensing

15% to 90% @ 149°F (65°C), noncondensing

17.6 Gb/s

16000 entries



HP 2530-24-PoE+ Switch (J9779A)

< 1.1 µs (LIFO 64-byte packets)

32°F to 113°F (0°C to 45°C)

up to 10,000 ft (3 km)

-40°F to 158°F (-40°C to 70°C)

Power: 40.4 dB, Pressure: 31.7 dB

15% to 95% @ 104°F (40°C), noncondensing

15% to 90% @ 149°F (65°C), noncondensing

12.8 Gb/s

16000 entries

up to 9.5 Mpps (64-byte packets)



HP 2530-8-PoE+ Switch (J9780A)

< 1.3 µs (LIFO 64-byte packets)

32°F to 113°F (0°C to 45°C)

up to 10,000 ft (3 km)

Power: 0 dB, Pressure: 0 dB

-40°F to 158°F (-40°C to 70°C)

15% to 95% @ 104°F (40°C), noncondensing

15% to 90% @ 149°F (65°C), noncondensing

5.6 Gb/s

16000 entries

up to 4.1 Mpps (64-byte packets)

I/O ports and slots 48 RJ-45 autosensing 10/100 PoE+ ports 24 RJ-45 autosensing 10/100 PoE+ ports 8 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u (IEEE 802.3 Type 10BASE-T, IEEE 802.3u (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Type 100BASE-TX, IEEE 802.3at PoE+); Type 100BASE-TX, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: half or full Media Type: Auto-MDIX; Duplex: half or full Media Type: Auto-MDIX; Duplex: half or full 2 autosensing 10/100/1000 ports (IEEE 2 autosensing 10/100/1000 ports (IEEE 2 dual-personality ports; each port can 802.3 Type 10BASE-T, IEEE 802.3u 802.3 Type 10BASE-T, IEEE 802.3u be used as either an RJ-45 10/100/1000 Type 100BASE-TX, IEEE 802.3ab Type Type 100BASE-TX, IEEE 802.3ab Type port (IEEE 802.3 Type 10BASE-T; IEEE 1000BASE-T); Duplex: 10BASE-T/100BASE-1000BASE-T); Duplex: 10BASE-T/100BASE-802.3u Type 100BASE-TX; IEEE 802.3ab TX: half or full; 1000BASE-T: full only TX: half or full; 1000BASE-T: full only 1000BASE-T Gigabit Ethernet) or as a SFP 2 fixed Gigabit Ethernet SFP ports 2 fixed Gigabit Ethernet SFP ports slot (for use with SFP transceivers) ports 1 dual-personality (RJ-45 or USB micro-B) 1 dual-personality (RJ-45 or USB micro-B) 1 dual-personality (RJ-45 or USB micro-B) serial console port serial console port serial console port **Physical characteristics** 17.4(w) x 12.7(d) x 1.75(h) in (44.2 x 32.26 x 17.4(w) x 12.7(d) x 1.75(h) in (44.2 x 32.26 x 10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x Dimensions 4.45 cm) (1U height) 4.45 cm) (1U height) 4.45 cm) (1U height) 10.1 lb (4.58 kg) 8.4 lb (3.81 kg) 2.0 lb (0.91 kg) Weiaht Memory and processor Processor ARM9E @ 800 MHz, 128 MB flash, 256 ARM9E @ 800 MHz, 128 MB flash, 256 MB ARM9E @ 800 MHz, 128 MB flash, 256 MB MB DDR3 DIMM; packet buffer size: 3 MB DDR3 DIMM; packet buffer size: 1.5 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated dynamically allocated dynamically allocated Mounting and enclosure Mounts in an EIA-standard 19-inch telco Mounts in an EIA-standard 19-inch telco Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting rack or equipment cabinet (rack-mounting rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; kit available); horizontal surface mounting; kit available); horizontal surface mounting; wall mounting wall mounting wall mounting Performance IPv6 Ready Certified IPv6 Ready Certified IPv6 Ready Certified < 1.3 µs (LIFO 64-byte packets) 100 Mb Latency < 6.6 µs (LIFO 64-byte packets) < 1.7 µs (LIFO 64-byte packets)

1000 Mb Latency

Switching capacity

MAC address table size

Operating relative humidity

Nonoperating/Storage relative

Nonoperating/Storage

Throughput

Environment Operating temperature

temperature

humidity Altitude

Acoustic

	HP 2530-48-PoE+ Switch (J9778A)	HP 2530-24-PoE+ Switch (J9779A)	HP 2530-8-PoE+ Switch (J9780A)
Electrical characteristics Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Maximum heat dissipation	170 BTU/hr (179.35 kJ/hr), (switch only: 170 BTU/hr; combined switch + max. PoE devices: 1505 BTU/hr)	99 BTU/hr (104.45 kJ/hr), (switch only: 99 BTU/hr; combined switch + max. PoE devices: 809 BTU/hr)	29 BTU/hr (30.6 kJ/hr), (switch only: 29 BTU/hr; combined switch + max. PoE devices: 262 BTU/hr)
AC voltage	100-127/200-240 VAC	100–127/200–240 VAC	100–127/200–240 VAC
Current	5.2/2.6 A	2.8/1.4 A	1.4 A
Maximum power rating	441 W	237 W	76.7 W
Idle power	37.5 W	21.8 W	5.8 W
PoE power	382 W	195 W	67 W
	Notes	Idle power is the actual power consumption	Idla power is the actual power consumption
	Idle power is the actual power consumption of the device with no ports connected.	of the device with no ports connected.	Idle power is the actual power consumption of the device with no ports connected.
	Maximum power rating and maximum heat	Maximum power rating and maximum heat	Maximum power rating and maximum heat
	dissipation are the worst-case theoretical	dissipation are the worst-case theoretical	dissipation are the worst-case theoretical
	maximum numbers provided for planning	maximum numbers provided for planning	maximum numbers provided for planning
	the infrastructure with fully loaded PoE (if	the infrastructure with fully loaded PoE (if	the infrastructure with fully loaded PoE (if
	equipped), 100% traffic, all ports plugged	equipped), 100% traffic, all ports plugged	equipped), 100% traffic, all ports plugged
	in, and all modules populated.	in, and all modules populated.	in, and all modules populated.
	PoE power is the total power budget	PoE power is the total power budget	PoE power is the total power budget
	available to all PoE ports.	available to all PoE ports.	available to all PoE ports.
Safety	UL 60950-1; CAN/CSA 22.2 No. 60950-1;	UL 60950-1; CAN/CSA 22.2 No. 60950-1;	UL 60950-1; CAN/CSA 22.2 No. 60950-1;
	EN 60825; IEC 60950-1; EN 60950-1	EN 60825; IEC 60950-1; EN 60950-1	EN 60825; IEC 60950-1; EN 60950-1
Emissions	FCC Class A; EN 55022/CISPR-22 Class A;	FCC Class A; EN 55022/CISPR-22 Class A;	FCC Class A; EN 55022/CISPR-22 Class A;
	VCCI Class A	VCCI Class A	VCCI Class A
Immunity	EN 55004 6/500 24	EN FEONA CICEDO NA	EN EFORM CISER 24
Generic	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD Padiated	IEC 61000-4-2	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst Surge	IEC 61000-4-4 IEC 61000-4-5	IEC 61000-4-4 IEC 61000-4-5	IEC 61000-4-4 IEC 61000-4-5
Conducted	IEC 61000-4-5	IEC 61000-4-5	IEC 61000-4-5
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-0	IEC 61000-4-0	IEC 61000-4-0
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
Management	IMC—Intelligent Management Center;	IMC—Intelligent Management Center;	IMC—Intelligent Management Center;
-	command-line interface; Web browser;	command-line interface; Web browser;	command-line interface; Web browser;
	configuration menu; out-of-band	configuration menu; out-of-band	configuration menu; out-of-band
	management (serial RS-232C or Micro	management (serial RS-232C or Micro	management (serial RS-232C or Micro
	USB); IEEE 802.3 Ethernet MIB; Repeater	USB); IEEE 802.3 Ethernet MIB; Repeater	USB); IEEE 802.3 Ethernet MIB; Repeater
	MIB; Ethernet Interface MIB	MIB; Ethernet Interface MIB	MIB; Ethernet Interface MIB
Notes	IEEE 802.3az applies to Gigabit models	IEEE 802.3az applies to Gigabit models	IEEE 802.3az applies to Gigabit models
	only; IEEE 802.3at and IEEE 802.3af apply	only; IEEE 802.3at and IEEE 802.3af apply	only; IEEE 802.3at and IEEE 802.3af apply
	to PoE+ models only. When using SFPs with	to PoE+ models only. When using SFPs with	to PoE+ models only. When using SFPs with
	this product, SFPs with revision "B" or later	this product, SFPs with revision "B" or later	this product, SFPs with revision "B" or later
	(product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	(product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	(product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.
Services	Refer to the HP website at hp.com/	Refer to the HP website at hp.com/	Refer to the HP website at hp.com/
	networking/services for details on the	networking/services for details on the	networking/services for details on the
	service-level descriptions and product	service-level descriptions and product	service-level descriptions and product
	numbers. For details about services and	numbers. For details about services and	numbers. For details about services and
	response times in your area, please contact	response times in your area, please contact	response times in your area, please contact
	response times in your area, piease contact	response times in your area, prease contact	response times in your area, piease contact

Specifications (continued)







HP 2530-48G Switch (J9775A)

HP 2530-24G Switch (J9776A)

HP 2530-8G Switch (J9777A)

I/O ports and slots

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-TX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 fixed Gigabit Ethernet SFP ports 1 dual-personality (RJ-45 or USB micro-B) 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 4 fixed Gigabit Ethernet SFP ports 1 dual-personality (RJ-45 or USB micro-B) serial console port

8 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-TY, IEEE 802.3ab Type 1000BASE-TY, IEEE 802.3ab Type 1000BASE-TY, IEEE 802.3ab Type 2 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10BASE-T; IEEE 802.3u Type 100BASE-TX; IEEE 802.3ab 1000BASE-T Gigabit Ethernet) or as a SFP slot (for use with SFP transceivers) ports 1 dual-personality (RJ-45 or USB micro-B) serial console port

Physical characteristics

 $\begin{array}{ccc} \text{Dimensions} & & 17.44 \text{(w)} \times 10.00 \text{(d)} \times 1.75 \text{(h)} \text{ in (44.3} \times 25.4 \\ & & \times 4.45 \text{ cm) (1U height)} \\ \text{Weight} & & 6.8 \text{ lb (3.08 kg)} \end{array}$

17.44(w) x 10.00(d) x 1.75(h) in (44.3 x 25.4 x 4.45 cm) (1U height) 6.1 lb (2.77 kg) $10(w) \times 6.28(d) \times 1.75(h)$ in $(25.4 \times 15.95 \times 4.45 \text{ cm})$ (1U height) 2.0 lb (0.91 kg)

Memory and processor

Processor

ARM9E @ 800 MHz, 128 MB flash, 256 ARM9E @ 800 M MB DDR3 DIMM; packet buffer size: 3 MB DDR3 DIMM; pac dynamically allocated dynamically allo

ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated

ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated

Mounting and enclosure

Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting

Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting

Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting

Performance

100 Mb Latency 1000 Mb Latency Throughput Switching capacity MAC address table size IPv6 Ready Certified < 7.4 μs (LIFO 64-byte packets) < 2.3 μs (LIFO 64-byte packets)

< 2.3 µs (LIFO 64-byte packets) up to 77.3 Mpps (64-byte packets) 104 Gb/s 16000 entries IPv6 Ready Certified

16000 entries

< 7.4 µs (LIFO 64-byte packets) < 2.3 µs (LIFO 64-byte packets) up to 41.6 Mpps (64-byte packets) 56 Gb/s IPv6 Ready Certified < 7.4 µs (LIFO 64-byte packets) < 2.6 µs (LIFO 64-byte packets) up to 14.8 Mpps (64-byte packets) 20 Gb/s 16000 entries

Environment

Acoustic

Operating temperature
Operating relative humidity
Nonoperating/Storage
temperature
Nonoperating/Storage relative
humidity
Altitude

32°F to 113°F (0°C to 45°C)

15% to 95% @ 104°F (40°C), noncondensing -40°F to 158°F (-40°C to 70°C)

15% to 90% @ 149°F (65°C), noncondensing

up to 10,000 ft (3 km) Power: 34.5 dB, Pressure: 31.0 dB 32°F to 113°F (0°C to 45°C)

15% to 95% @ 104°F (40°C), noncondensing -40°F to 158°F (-40°C to 70°C)

15% to 90% @ 149°F (65°C), noncondensing

up to 10,000 ft (3 km) Power: 34.0 dB, Pressure: 26.4 dB 32°F to 113°F (0°C to 45°C)

15% to 95% @ 104°F (40°C), noncondensing -40°F to 158°F (-40°C to 70°C)

15% to 90% @ 149°F (65°C), noncondensing

up to 10,000 ft (3 km) Power: 0 dB, Pressure: 0 dB

	HP 2530-48G Switch (J9775A)	HP 2530-24G Switch (J9776A)	HP 2530-8G Switch (J9777A)
Electrical characteristics Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Maximum heat dissipation	Achieved Miercom Certified Green Award 203 BTU/hr (214.17 kJ/hr)	164 BTU/hr (173.02 kJ/hr)	63 BTU/hr (66.46 kJ/hr),
AC voltage Current Maximum power rating Idle power	100–127/200–240 VAC 1.2/0.7 A 59.5 W 29.5 W	100–127/200–240 VAC .6/.4 A 48.0 W 28.8 W	(switch only: 63 BTU/hr) 100–127/200–240 VAC 0.5 A 18.6 W 13.6 W
	Notes Idle power is the actual power consumption of the device with no ports connected. 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.	Idle power is the actual power consumption of the device with no ports connected. 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.	Idle power is the actual power consumption of the device with no ports connected. 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; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1
Emissions	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A
Immunity Generic EN ESD Radiated EFT/Burst Surge Conducted Power frequency magnetic field Voltage dips and interruptions Harmonics Flicker	EN 55024, CISPR 24 EN 55024, CISPR 24 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3	EN 55024, CISPR 24 EN 55024, CISPR 24 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3	EN 55024, CISPR 24 EN 55024, CISPR 24 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3
Management	IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB
Notes	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.
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.	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.

Specifications (continued)







	HP 2530-48 Switch (J9781A)	HP 2530-24 Switch (J9782A)	HP 2530-8 Switch (J9783A)
I/O ports and slots	48 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full 2 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 fixed Gigabit Ethernet SFP ports 1 dual-personality (RJ-45 or USB micro-B) serial console port	24 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full 2 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-TX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 fixed Gigabit Ethernet SFP ports 1 dual-personality (RJ-45 or USB micro-B) serial console port	8 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Media Type: Auto-MDIX; Duplex: half or full 2 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10BASE-T; IEEE 802.3u Type 100BASE-TX; IEEE 802.3ab 1000BASE-T Gigabit Ethernet) or as a SFP slot (for use with SFP transceivers) ports 1 dual-personality (RJ-45 or USB micro-B) serial console port
Physical characteristics			
Dimensions	17.4(w) x 9.7(d) x 1.75(h) in (44.2 x 24.64 x 4.45 cm) (1U height)	17.4(w) x 9.7(d) x 1.75(h) in (44.2 x 24.64 x 4.45 cm) (1U height)	10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height)
Weight	6.3 lb (2.86 kg)	5.7 lb (2.59 kg)	1.8 lb (0.82 kg)
Memory and processor			
Processor	ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 3 MB dynamically allocated	ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated	ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated
Mounting and enclosure	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting wall mounting
Performance			
	IPv6 Ready Certified	IPv6 Ready Certified	IPv6 Ready Certified
100 Mb Latency	< 6.6 μs (LIFO 64-byte packets)	< 1.7 μs (LIFO 64-byte packets)	< 1.3 μs (LIFO 64-byte packets)
1000 Mb Latency	< 2.2 µs (LIFO 64-byte packets)	< 1.1 µs (LIFO 64-byte packets)	< 1.3 µs (LIFO 64-byte packets)
Throughput Switching capacity	up to 13 Mpps (64-byte packets) 17.6 Gb/s	up to 9.5 Mpps (64-byte packets) 12.8 Gb/s	up to 4.1 Mpps (64-byte packets) 5.6 Gb/s
MAC address table size	16000 entries	16000 entries	16000 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	15% to 95% @ 104°F (40°C), noncondensing	15% to 95% @ 104°F (40°C), noncondensing	15% to 95% @ 104°F (40°C), noncondensing
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing
Altitude	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)	up to 10,000 ft (3 km)
Acoustic	Power: 0 dB, Pressure: 0 dB	Power: 0 dB, Pressure: 0 dB	Power: 0 dB, Pressure: 0 dB

	HP 2530-48 Switch (J9781A)	HP 2530-24 Switch (J9782A)	HP 2530-8 Switch (J9783A)
Electrical characteristics Frequency Maximum heat dissipation AC voltage Current Maximum power rating Idle power	50/60 Hz 102 BTU/hr (107.61 kJ/hr) 100–127/200–240 VAC 0.7/0.4 A 29.9 W 17.1 W	50/60 Hz 50 BTU/hr (52.75 kJ/hr) 100–127/200–240 VAC 0.3/0.2 A 14.7 W 8.4 W	50/60 Hz 25 BTU/hr (26.38 kJ/hr) 100–127/200–240 VAC 0.5 A 7.2 W 4.5 W
	Notes Idle power is the actual power consumption of the device with no ports connected. 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.	Idle power is the actual power consumption of the device with no ports connected. 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.	Idle power is the actual power consumption of the device with no ports connected. 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; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1
Emissions	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A
Immunity Generic EN ESD Radiated EFT/Burst Surge Conducted Power frequency magnetic field Voltage dips and interruptions Harmonics Flicker	EN 55024, CISPR 24 EN 55024, CISPR 24 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3	EN 55024, CISPR 24 EN 55024, CISPR 24 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3	EN 55024, CISPR 24 EN 55024, CISPR 24 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3
Management	IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB
Notes	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.
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.	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.

Specifications (continued)

	HP 2530-48G-PoE+-2SFP+ Switch (J9853A)	HP 2530-24G-PoE+-2SFP+ Switch (J9854A)	
I/O ports and slots	48 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 SFP+ fixed 1000/10000 SFP+ ports 1 dual-personality (RJ-45 or USB micro-B) serial console port	24 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3 Type 10BASE-TX, IEEE 802.3 Type 1000BASE-T, IEEE 802.3 Type 1000BASE-T, IEEE 802.3 Type 1000BASE-T, IEEE 802.3 Type 1000BASE-T, IEEE 802.3 Type 1000BASE-TX: half or full; 1000BASE-T; full only 2 SFP+ fixed 1000/10000 SFP+ ports 1 dual-personality (RJ-45 or USB micro-B) serial console port	
Physical characteristics Dimensions	17.44(w) × 13.00(d) × 1.75(h) in (44.3 × 32.26 × 4.45 cm) (1U height)	17.44(w) × 13.00(d) × 1.75(h) in (44.3 × 33.02 × 4.45 cm) (1U height)	
Weight	10.4 lb (4.72 kg)	8.6 lb (3.9 kg)	
Memory and processor			
Processor	ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 3 MB dynamically allocated	ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated	
Mounting and enclosure	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting	
Performance			
100 Mb Latency	IPv6 Ready Certified < 7.3 µs (LIFO 64-byte packets)	IPv6 Ready Certified < 7.3 µs (LIFO 64-byte packets)	
1000 Mb Latency 10 Gb/s Latency	< 2.7 µs (LIFO 64-byte packets) < 4.0 µs (LIFO 64-byte packets)	< 2.7 µs (LIFO 64-byte packets) < 2.2 µs (LIFO 64-byte packets)	
Throughput	101 Mpps (64-byte packets)	65.4 Mpps (64-byte packets)	
Switching capacity	136 Gb/s	88 Gb/s	
MAC address table size	16000 entries	16000 entries	
Environment			
Operating temperature Operating relative humidity	32°F to 113°F (0°C to 45°C) 15% to 95% @ 104°F (40°C), noncondensing	32°F to 113°F (0°C to 45°C) 15% to 95% @ 104°F (40°C), noncondensing	
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	
Nonoperating/Storage relative humidity	15% to 90% @ 149°F (65°C), noncondensing	15% to 90% @ 149°F (65°C), noncondensing	
Altitude Acoustic	up to 10,000 ft (3 km) Power: 36.4 dB, Pressure: 30.1 dB	up to 10,000 ft (3 km) Power: 31.3 dB, Pressure: 24 dB	
ricoustic	1 0wc1. 20.4 db, F1e33die. 20.1 db	1 0wc1. 5 1.5 db, F1c55d1c. 24 db	

	HP 2530-48G-PoE+-2SFP+ Switch (J9853A)	HP 2530-24G-PoE+-2SFP+ Switch (J9854A)
Electrical characteristics Frequency Maximum heat dissipation AC voltage Current Maximum power rating Idle power PoE power	50/60 Hz 215 BTU/hr (226.83 kJ/hr), (switch only: 215 BTU/hr; combined switch + max. PoE devices: 1499 BTU/hr) 100–127/200–240 VAC 5.6/2.8 A 439 W 40.2 W 382 W	50/60 Hz 118 BTU/hr (124.49 kJ/hr), (switch only: 118 BTU/hr; combined switch + max. PoE devices: 757 BTU/hr) 100–127/200–240 VAC 2.9/1.4 A 222.2 W 24.7 W 195 W
	Notes Idle power is the actual power consumption of the device with no ports connected. 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. PoE power is the total power budget available to all PoE ports.	Idle power is the actual power consumption of the device with no ports connected. 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. PoE power is the total power budget available to all PoE ports.
Safety	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1
Emissions	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A
Immunity Generic EN ESD Radiated EFT/Burst Surge Conducted Power frequency magnetic field Voltage dips and interruptions Harmonics Flicker Management	EN 55024, CISPR 24 EN 55024, CISPR 24 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3	EN 55024, CISPR 24 EN 55024, CISPR 24 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3
management	interligent management center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB
Notes	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. SFPs with revision "B" or later (e.g., J4858B, J4859C) are required with this product. This product supports only 1 Gigabit SFP & 10 Gigabit SFP+ transceivers, as well as 10 Gigabit Direct Attach Cables.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. SFPs with revision "B" or later (e.g., J4858B, J4859C) are required with this product. This product supports only 1 Gigabit SFP & 10 Gigabit SFP+ transceivers, as well as 10 Gigabit Direct Attach Cables.
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.

Specifications (continued)







HP 2530-48G-2SFP+ Switch (J9855A)

HP 2530-24G-2SFP+ Switch (J9856A)

HP 2530-8-PoE+ Internal PS Switch (JL070A)

I/O ports and slots

48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3 u Type 100BASE-TX, IEEE 802.3 ab Type 1000BASE-TX; IEEE 802.3 ab Type 1000BASE-TX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 SFP+ fixed 1000/10000 SFP+ ports 1 dual-personality (RJ-45 or USB micro-B) 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 2 SFP+ fixed 1000/10000 SFP+ ports 1 dual-personality (RJ-45 or USB micro-B) serial console port

8 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3 U Type 100BASE-TX, IEEE 802.3 at PoE+); Media Type: Auto-MDIX; Duplex: half or full 2 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10BASE-T; IEEE 802.3 u Type 10BASE-TX; IEEE 802.3 ab 1000BASE-T Gigabit Ethernet) or as a SFP slot (for use with SFP transceivers) ports 1 dual-personality (RJ-45 or USB micro-B) serial console port

Physical characteristics

Dimensions 17.44(w) x 10.00(d) x 1.75(h) in (44.3 x 25.4 x 4.45 cm) (1U height)
Weight 7.1 lb (3.08 kg)

17.44(w) x 10.00(d) x 1.75(h) in (44.3 x 25.4 x 4.45 cm) (1U height) 6.2 lb (2.81 kg)

 $10(w) \times 9.68(d) \times 1.75(h)$ in (25.4 x 24.59 x 4.45 cm) (1U height) 4.65 lb (2.11 kg)

Memory and processor

Processor

ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 3 MB dynamically allocated

ARM9E @ $800\,\mathrm{MHz}$, $128\,\mathrm{MB}$ flash, $256\,\mathrm{MB}$ DDR3 DIMM; packet buffer size: $1.5\,\mathrm{MB}$ dynamically allocated

ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated

Mounting and enclosure

Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting

Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting

Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); Horizontal surface mounting; Wall mounting

Performance

100 Mb Latency 1000 Mb Latency 10 Gb/s Latency Throughput Switching capacity MAC address table size IPv6 Ready Certified < 7.3 µs (LIFO 64-byte packets) < 2.7 µs (LIFO 64-byte packets) < 4.0 µs (LIFO 64-byte packets) 101 Mpps (64-byte packets) 136 Gb/s 16000 entries IPv6 Ready Certified < 7.3 μs (LIFO 64-byte packets) < 2.7 μs (LIFO 64-byte packets) < 2.2 μs (LIFO 64-byte packets) 65.4 Mpps (64-byte packets) 88 Gb/s 16000 entries IPv6 Ready Certified < 1.3 μs (LIFO 64-byte packets) < 1.3 μs (LIFO 64-byte packets) up to 4.1 Mpps (64-byte packets)

5.6 Gbps

16000 entries

Environment

Operating temperature
Operating relative humidity
Nonoperating/Storage temperature
Nonoperating/Storage relative humidity
Altitude
Acoustic

32°F to 113°F (0°C to 45°C) 15% to 95% @ 104°F (40°C), noncondensing -40°F to 158°F (-40°C to 70°C) 15% to 90% @ 149°F (65°C), noncondensing up to 10,000 ft (3 km) Power: 32.2 dB, Pressure: 25.6 dB 32°F to 113°F (0°C to 45°C) 15% to 95% @ 104°F (40°C), noncondensing -40°F to 158°F (-40°C to 70°C) 15% to 90% @ 149°F (65°C), noncondensing up to 10,000 ft (3 km) Power: 29.4 dB, Pressure: 22.3 dB 32°F to 113°F (0°C to 45°C) 15% to 95% @ 104°F (40°C), noncondensing -40°F to 158°F (-40°C to 70°C) 15% to 90% @ 149°F (65°C), noncondensing up to 10,000 ft (3 km) Power: 0 dB, Pressure: 0 dB

	HP 2530-48G-2SFP+ Switch (J9855A)	HP 2530-24G-2SFP+ Switch (J9856A)	HP 2530-8-PoE+ Internal PS Switch (JL070A)
Electrical characteristics Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Maximum heat dissipation	Achieved Miercom Certified Green Award 189 BTU/hr (199.4 kJ/hr)	104 BTU/hr (109.72 kJ/hr)	29 BTU/hr (30.6 kJ/hr), (switch only: 29 BTU/hr; combined switch + max. PoE devices: 239 BTU/hr)
AC voltage Current Maximum power rating Idle power PoE power	100–127/200–240 VAC 0.9/0.5 A 55.1 W 33.3 W	100–127/200–240 VAC 0.7/0.5 A 31 W 20.5 W	100–127/200–240 VAC 0.9/0.5 A 70.2 W 5.3 W 67 W PoE
	Notes Idle power is the actual power consumption of the device with no ports connected. 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.	Idle power is the actual power consumption of the device with no ports connected. 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.	Idle power is the actual power consumption of the device with no ports connected. 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. PoE power is the total power budget available to all PoE ports.
Safety	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1	UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1
Emissions	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A
Immunity Generic EN ESD Radiated EFT/Burst Surge Conducted Power frequency magnetic field Voltage dips and interruptions Harmonics Flicker	EN 55024, CISPR 24 EN 55024, CISPR 24 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3	EN 55024, CISPR 24 EN 55024, CISPR 24 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3	EN 55024, CISPR 24 EN 55024, CISPR 24 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3
Management	IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB
Notes	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. SFPs with revision "B" or later (e.g., J4858B, J4859C) are required with this product. This product supports only 1 Gigabit SFP & 10 Gigabit SFP+ transceivers, as well as 10 Gigabit Direct Attach Cables.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. SFPs with revision "B" or later (e.g., J4858B, J4859C) are required with this product. This product supports only 1 Gigabit SFP & 10 Gigabit SFP+ transceivers, as well as 10 Gigabit Direct Attach Cables.	IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required.
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.	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.

Standards and protocols

(applies to all products in series)

Denial of service protection		Network DoS Filter	
Device management	RFC 1591 DNS (client)	SSHv1/SSHv2 Secure Shell	
General protocols	IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3 Type 10BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3az Energy Efficient Ethernet IEEE 802.3x Flow Control	RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 868 Time Protocol RFC 951 B00TP RFC 1350 TFTP Protocol (revision 2) RFC 1542 B00TP Extensions RFC 1918 Address Allocation for Private Internet RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 2131 DHCP	RFC 3411 An Architecture for Describing Simple Network Management Protocol (SNMP) Management Frameworks RFC 3412 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP) RFC 3413 Simple Network Management Protocol (SNMP) Applications 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 (SNMP) RFC 3416 Protocol (Operations for SNMP)
IP multicast		RFC 3376 IGMPv3 (host joins only)	
IPv6	RFC 1981 IPv6 Path MTU Discovery RFC 2460 IPv6 Specification RFC 2464 Transmission of IPv6 over Ethernet Networks RFC 2925 Remote Operations MIB (Ping only) RFC 3315 DHCPv6 (client only) RFC 3484 Default Address Selection for IPv6 RFC 3513 IPv6 Addressing Architecture RFC 3596 DNS Extension for IPv6	RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6 RFC 4022 MIB for TCP RFC 4113 MIB for UDP RFC 4251 SSHv6 Architecture RFC 4252 SSHv6 Authentication RFC 4252 SSHv6 Transport Layer RFC 4254 SSHv6 Connection RFC 4291 IP Version 6 Addressing Architecture	RFC 4293 MIB for IP RFC 4419 Key Exchange for SSH RFC 4443 ICMPv6 RFC 4861 IPv6 Neighbor Discovery RFC 4862 IPv6 Stateless Address Autoconfiguration RFC 5095 Deprecation of Type 0 Routing Headers in IPv6
MIBs	RFC 1155 Structure and Identification of Management Information for TCP/IP Internets RFC 1212 Concise MIB Definitions RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2021 RMONv2 MIB	RFC 2578 Structure of Management Information Version 2 (SMIv2) RFC 2579 Textual Conventions for SMIv2 RFC 2613 SMON MIB RFC 2618 RADIUS Client MIB RFC 2620 RADIUS Accounting Client MIB RFC 2665 Ethernet-Like-MIB	RFC 2668 802.3 MAU MIB RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 2737 Entity MIB (Version 2) RFC 2863 The Interfaces Group MIB RFC 4836 Managed Objects for 802.3 Medium Attachment Units (MAU)
Network management	IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 1098 A Simple Network Management Protocol (SNMP)	RFC 1155 Structure of Management Information RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)	RFC 5424 Syslog Protocol ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3
QoS/CoS	RFC 2474 DiffServ precedence, with 4 queues per port	RFC 2475 DiffServ Architecture RFC 2597 DiffServ Assured Forwarding (AF)	RFC 2598 DiffServ Expedited Forwarding (EF)
Security	IEEE 802.1X Port Based Network Access Control	RFC 1492 TACACS+ RFC 2138 RADIUS Authentication	RFC 2866 RADIUS Accounting Secure Sockets Layer (SSL)

HP 2530 Switch Series accessories

Transceivers	HP X111 100M SFP LC FX Transceiver (J9054C) HP X112 100M SFP LC BX-D Transceiver (J9099B) HP X112 100M SFP LC BX-U Transceiver (J9100B) HP X121 1G SFP LC SX Transceiver (J4858C) HP X121 1G SFP LC LX Transceiver (J4859C) HP X121 1G SFP LC LX Transceiver (J4860C) HP X121 1G SFP LC BX-D Transceiver (J9142B) HP X122 1G SFP LC BX-U Transceiver (J9143B) HP X121 1G SFP RJ45 T Transceiver (J8177C)	
Mounting kit	HP X410 1U Universal 4-post Rack Mounting Kit (J9583A)	
HP 2530-8-PoE+ Internal PS Switch (JL070A)	HP X510 1U Cable Guard (J9700A)	
HP 2530-8G-PoE+ Switch (J9774A)	HP 2530 8-port Switch Power Adapter Shelf (J9820A) HP X510 1U Cable Guard (J9700A)	
HP 2530-8-PoE+ Switch (J9780A)	HP 2530 8-port Switch Power Adapter Shelf (J9820A) HP X510 1U Cable Guard (J9700A)	
HP 2530-8G Switch (J9777A)	HP 2530 8-port Switch Power Adapter Shelf (J9820A) HP X510 1U Cable Guard (J9700A)	
HP 2530-8 Switch (J9783A)	HP 2530 8-port Switch Power Adapter Shelf (J9820A) HP X510 1U Cable Guard (J9700A)	
HP 2530-48G-PoE+-2SFP+ Switch (J9853A)	HP X132 10G SFP+ LC SR Transceiver (J9150A) HP X132 10G SFP+ LC LR Transceiver (J9151A) HP X132 10G SFP+ LC LRM Transceiver (J9152A) HP X132 10G SFP+ LC ER Transceiver (J9153A) HP X132 10G SFP+ LC ER Transceiver (J9153A) HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable (J9281B) HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (J9285B) HP X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable (J9285B) HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable (J9300A) HP X244 10G XFP to SFP+ 5m Direct Attach Copper Cable (J9301A) HP X244 10G XFP to SFP+ 5m Direct Attach Copper Cable (J9302A)	
HP 2530-24G-PoE+-2SFP+ Switch (J9854A)	HP X132 10G SFP+ LC SR Transceiver (J9150A) HP X132 10G SFP+ LC LR Transceiver (J9151A) HP X132 10G SFP+ LC LRM Transceiver (J9152A) HP X132 10G SFP+ LC ER Transceiver (J9153A) HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable (J9281B) HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (J9283B) HP X242 10G SFP+ to SFP+ The Direct Attach Copper Cable (J9285B) HP X244 10G XFP to SFP+ 1m Direct Attach Copper Cable (J9300A) HP X244 10G XFP to SFP+ 3m Direct Attach Copper Cable (J9301A) HP X244 10G XFP to SFP+ 5m Direct Attach Copper Cable (J9302A)	

HP 2530 Switch Series accessories (continued)

HP 2530-48G-2SFP+ Switch (J9855A)

HP X132 10G SFP+ LC SR Transceiver (J9150A) HP X132 10G SFP+ LC LR Transceiver (J9151A) HP X132 10G SFP+ LC LRM Transceiver (J9152A) HP X132 10G SFP+ LC ER Transceiver (J9153A)

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