Models

- HP 2530-48G-PoE+ Switch
- HP 2530-24G-PoE+ Switch
- HP 2530-8G-PoE+ Switch
- HP 2530-48-PoE+ Switch
- HP 2530-24-PoE+ Switch
- HP 2530-8-PoE+ Switch
- HP 2530-48G Switch
- HP 2530-24G Switch
- HP 2530-8G Switch
- HP 2530-48 Switch
- HP 2530-24 Switch
- HP 2530-8 Switch

J9772A
J9773A
J9774A
J9778A
J9779A
J9780A
J9775A
J9776A
J9777A
J9781A
J9782A
J9783A

Key features

- Cost-effective, reliable, and secure fully managed Layer 2 switches
- 8, 24, or 48 Gigabit or Fast Ethernet ports with 4 Gigabit uplink ports (2 uplinks on 8-port models)
- PoE+ models for voice, video, and wireless deployments
- ACLs, EEE, and IPv4/IPv6 host support
- Includes lifetime warranty, all software releases, and technical phone support

Introduction

The HP 2530 Switch Series consists of 12 fully managed Layer 2 edge switches that deliver cost-effective, reliable, secure, and easy-to-use connectivity to business networks. Designed for entry-level to midsize enterprise networks, these Gigabit and Fast Ethernet switches deliver full Layer 2 capabilities with optional PoE+, enhanced access security, traffic prioritization, and IPv6 host support.

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

The switch series is easy to use, deploy, and manage via SNMP, CLI, and Web GUI. It offers flexible wall, table, and rack mounting; quiet operation with fanless and variable speed fan models; and improved power savings, with features such as IEEE 802.3 az (Energy Efficient Ethernet). These switches include a lifetime warranty, as well as all software releases and technical phone support.

Features and Benefits

Quality of Service (QoS)

- Traffic prioritization (IEEE 802.1p)
  allows real-time traffic classification with support for eight priority levels mapped to either two or four queues; uses weighted
QuickSpecs

Overview

deficit round robin (WDRR) or strict priority (SP)

- **Simplified QoS configuration**
  - **Port-based**
    prioritize traffic by specifying a port and priority level
  - **VLAN-based**
    prioritize 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**
  sets 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**
  - **Web graphical user interface (GUI)**
    HTML-based easy-to-use graphical interface allows configuration of the switch from any Web browser
  - **Command-line interface (CLI)**
    provides advanced configuration and diagnostics through a robust CLI
  - **Simple Network Management Protocol (SNMPv1/v2c/v3)**
    allows a 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

- **RMON (remote monitoring)**
  provides advanced monitoring and reporting capabilities for statistics, history, alarms, and events

- **Find-Fix-and-Inform**
  finds and fixes common network problems automatically, 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**
  allows multiple configuration files to be stored to a flash image

- **Front-panel LEDs**
  - **Locator LED**
    allows users to set the locator LED on a specific switch to either turn on, blink, or turn off; simplifies troubleshooting by making it easy to locate a particular switch within a rack of similar switches
Overview

- **Per-port LEDs**
  provides an at-a-glance view of status, activity, speed, and full-duplex operation
- **Power and fault LEDs**
  display any issues

- **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 help is elicited to formulate the correct ProVision software CLI command

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 the appropriate interface; prevents IPv6 multicast traffic from flooding the network
- **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 Plus**
  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 (see product specifications for total PoE power available)
- **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; see list of supported devices in the product FAQ at [www.hp.com/networking/support](http://www.hp.com/networking/support)
- **Small form-factor pluggable (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 flexibility of using either 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 9220-byte frame size to improve the performance of large data transfers; 8- and 24-port Fast Ethernet models automatically support up to 2000-byte frames with no configuration needed
- **16K MAC address table**
  provides access to many Layer 2 devices
QuickSpecs

Overview

- **GARP VLAN Registration Protocol**
  allows automatic learning and dynamic assignment of VLANs
- **Per-VLAN Spanning Tree Plus (PVST+)**
  allows each VLAN to build a separate spanning tree to improve link bandwidth usage in network environments with multiple VLANs

Security

- **Access control lists (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 (SSHv2; client and server)**
  encrypts all transmitted data for secure, remote CLI access over IP networks
- **Secure shell**
  encrypts all transmitted data for secure 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 secure 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 secure 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 filters 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 eight IEEE 802.1X users per port; prevents a user from “piggybacking” on another user’s
Overview

- **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

Convergence

- **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
- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP)**
  - facilitates easy mapping using network management applications with LLDP automated device discovery protocol
- **PoE and PoE+ allocations**
  - support multiple method (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

Resiliency and high availability

- **Port trunking and link aggregation**
  - **Trunking**
    - supports up to eight links per trunk to increase bandwidth and create redundant connections; 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 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
- **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**
    - allows the port to automatically go into low-power mode to conserve energy when no link is detected
  - **Fans**
    - decreases power consumption in fanless (all 8-port, 2530-24, and 2530-48 switches) and variable-speed fan switches
  - **Port LEDs**
    - conserves energy by optionally turning off port link and activity LEDs
QuickSpecs

Overview

- **Switch on a chip**
  provides highly integrated, high-performance switch design with a nonblocking architecture

Flexibility

- **Flexible mounting**
  - **Rackable**
    accommodates mounting in a standard 19-inch rack using included hardware
  - **Wall mountable**
    allows the switch to be mounted to a wall using included hardware
  - **Surface mountable**
    allows the switch to be mounted above or below a surface (such as a desk or table) with included hardware

- **Quiet operation**
  lowers noise for deployments in acoustically sensitive environments such as conference rooms and office space

- **Compact size**
  reduces space requirements (see product specifications for exact dimensions)

Warranty and support

- **Lifetime Warranty 2.0**
  advance hardware replacement for as long as you own the product with next-business-day delivery (available in most countries)†

- **Electronic and telephone support (for 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
  [www.hp.com/networking/contact-support](http://www.hp.com/networking/contact-support); for details on the duration of support provided with your product purchase, refer to [www.hp.com/networking/warrantysummary](http://www.hp.com/networking/warrantysummary)

- **Software releases**
  to find software for your product, refer to [www.hp.com/networking/support](http://www.hp.com/networking/support); for details on the software releases available with your product purchase, refer to [www.hp.com/networking/warrantysummary](http://www.hp.com/networking/warrantysummary)

†HP warranty includes repair or replacement of hardware for as long as you own the product, with next business day advance replacement (available in most countries). The disk drive included with HP AllianceOne Advanced Services and Services zl Modules, HP Threat Management Services zl Module, HP AllianceOne Extended zl Module with Riverbed Steelhead, HP MSM765zl Mobility Controller and HP Survivable Branch Communication zl Module powered by Microsoft Lync has a five-year hardware warranty. For details, refer to the Software license and hardware warranty statements at [www.hp.com/networking/warranty](http://www.hp.com/networking/warranty).
Build To Order: BTO is a standalone unit with no integration. BTO products ship standalone are not part of a CTO or Rack-Shippable solution.

HP 2530-8 Switch
- 8 RJ-45 autosensing 10/100 ports
- 2 dual-personality ports; RJ-45 10/100/1000 or SFP slot (Min 0 // Max 2 SFP)
- Power Supply Included
- 1U - Height

HP 2530-8-PoE+ Switch
- 8 RJ-45 autosensing 10/100 PoE+ ports
- 2 dual-personality ports; RJ-45 10/100/1000 or SFP slot (Min 0 // Max 2 SFP)
- Power Supply Included
- 1U - Height

HP 2530-8G Switch
- 8 RJ-45 autosensing 10/100/1000 ports
- 2 dual-personality ports; RJ-45 10/100/1000 or SFP slot (Min 0 // Max 2 SFP)
- Power Supply Included
- 1U - Height

HP 2530-8G-PoE+ Switch
- 8 RJ-45 autosensing 10/100/1000 PoE+ ports
- 2 dual-personality ports; RJ-45 10/100/1000 or SFP slot (Min 0 // Max 2 SFP)
- Power Supply Included
- 1U - Height

HP 2530-24 Switch
- 24 RJ-45 autosensing 10/100 ports
- 2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)
- 2 RJ-45 autosensing 10/100/1000 ports
- Power Supply Included
- 1U - Height

PDU CABLE NA/MEX/TW/JP
- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW
- C15 PDU Jumper Cord (ROW)

HP 2530-24-PoE+ Switch
QuickSpecs

HP 2530 Switch Series

Configuration

- 24 RJ-45 autosensing 10/100 PoE+ ports
- 2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)
- 2 RJ-45 autosensing 10/100/1000 ports
- Power Supply Included
- 1U - Height

PDU CABLE NA/MEX/TW/JP
- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW
- C15 PDU Jumper Cord (ROW)

HP 2530-24G Switch
- 24 RJ-45 autosensing 10/100/1000 ports
- 4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)
- Power Supply Included
- 1U - Height

PDU CABLE NA/MEX/TW/JP
- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW
- C15 PDU Jumper Cord (ROW)

HP 2530-24G-PoE+ Switch
- 24 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)
- Power Supply Included
- 1U - Height

PDU CABLE NA/MEX/TW/JP
- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW
- C15 PDU Jumper Cord (ROW)

HP 2530-48 Switch
- 48 RJ-45 autosensing 10/100 ports
- 2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)
- 2 RJ-45 autosensing 10/100/1000 ports
- Power Supply Included
- 1U - Height

PDU CABLE NA/MEX/TW/JP
- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW
- C15 PDU Jumper Cord (ROW)
QuickSpecs

HP 2530 Switch Series

Configuration

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW

- C15 PDU Jumper Cord (ROW) J9781A#B2C

HP 2530-48-PoE+ Switch J9778A

- 48 RJ-45 autosensing 10/100 PoE+ ports
- 2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)
- 2 RJ-45 autosensing 10/100/1000 ports
- Power Supply Included
- 1U - Height

PDU CABLE NA/MEX/TW/JP J9778A#B2B

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW J9778A#B2C

- C15 PDU Jumper Cord (ROW)

HP 2530-48G Switch J9775A

- 48 RJ-45 autosensing 10/100/1000 ports
- 4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)
- Power Supply Included
- 1U - Height

PDU CABLE NA/MEX/TW/JP J9775A#B2B

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW J9775A#B2C

- C15 PDU Jumper Cord (ROW)

HP 2530-48G-PoE+ Switch J9772A

- 48 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)
- Power Supply Included
- 1U - Height

PDU CABLE NA/MEX/TW/JP J9772A#B2B

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW J9772A#B2C

- C15 PDU Jumper Cord (ROW)
Configuration Rules:

**Note 1**
The following Transceivers install into this switch:
- HP X121 1G SFP LC SX Transceiver J4858C
- HP X121 1G SFP LC LX Transceiver J4859C
- 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 LH Transceiver J4860C
- HP X122 1G SFP LC BX-D Transceiver J9142B
- HP X122 1G SFP LC BX-U Transceiver J9143B
- HP X121 1G SFP RJ45 T Transceiver J8177C

**Note 2**
Localization required on orders without #B2B, #B2C or #B2E options.

**Note 3**
Localization cable required. No B2x options

Remarks:
Drop down under power supply should offer the following options and results:

Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO)

Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO)

### Rack Level Integration CTO Models

**HP 2530-24 Switch**

- 24 RJ-45 autosensing 10/100 ports
- 2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)
- 2 RJ-45 autosensing 10/100/1000 ports
- Power Supply Included
- 1U - Height

PDU CABLE NA/MEX/TW/JP

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW

- C15 PDU Jumper Cord (ROW)
HP 2530-24-PoE+ Switch

- 24 RJ-45 autosensing 10/100 PoE+ ports
- 2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)
- 2 RJ-45 autosensing 10/100/1000 ports
- Power Supply Included
- 1U - Height

PDU CABLE NA/MEX/TW/JP
- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW
- C15 PDU Jumper Cord (ROW)

HP 2530-24G Switch

- 24 RJ-45 autosensing 10/100/1000 ports
- 4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)
- Power Supply Included
- 1U - Height

PDU CABLE NA/MEX/TW/JP
- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW
- C15 PDU Jumper Cord (ROW)

HP 2530-24G-PoE+ Switch

- 24 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)
- Power Supply Included
- 1U - Height

PDU CABLE NA/MEX/TW/JP
- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW
- C15 PDU Jumper Cord (ROW)

HP 2530-48 Switch

- 48 RJ-45 autosensing 10/100 ports
- 2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)
- 2 RJ-45 autosensing 10/100/1000 ports
- Power Supply Included
- 1U - Height

PDU CABLE NA/MEX/TW/JP
- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW
- C15 PDU Jumper Cord (ROW)
QuickSpecs

HP 2530 Switch Series

Configuration

PDU CABLE NA/MEX/TW/JP

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW

- C15 PDU Jumper Cord (ROW)

HP 2530-48-PoE+ Switch

- 48 RJ-45 autosensing 10/100 PoE+ ports
- 2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)
- 2 RJ-45 autosensing 10/100/1000 ports
- Power Supply Included
- 1U - Height

HP 2530-48G Switch

- 48 RJ-45 autosensing 10/100/1000 ports
- 4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)
- Power Supply Included
- 1U - Height

HP 2530-48G-PoE+ Switch

- 48 RJ-45 autosensing 10/100/1000 PoE+ ports
- 4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)
- Power Supply Included
- 1U - Height

PDU CABLE NA/MEX/TW/JP

- C15 PDU Jumper Cord (NA/MEX/TW/JP)

PDU CABLE ROW

- C15 PDU Jumper Cord (ROW)
Configuration Rules:

**Note 1**

The following Transceivers install into this switch:

- HP X121 1G SFP LC SX Transceiver J4858C
- HP X121 1G SFP LC LX Transceiver J4859C
- 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 LH Transceiver J4860C
- HP X122 1G SFP LC BX-D Transceiver J9142B
- HP X122 1G SFP LC BX-U Transceiver J9143B
- HP X121 1G SFP RJ45 T Transceiver J8177C

**Note 2**

If this switch is factory installed in any HP Universal Racks, Then the J9583A#0D1 is required.

**Note 3**

Localization (Wall Power Cord) required on orders without #B2B, #B2C (PDU Power Cord) . (See Localization Menu)

**REMARK:** When Switches/Routers are Factory Racked, Then #B2B, or #B2C should be the Defaulted Power Cable option on the Switches/Routers.

**Note 3**

#B2B is required in AMS, and #B2C in APJ and EMEA. (Only when Factory Racked)

**Note 4**

If HP CTO Switch Chassis is selected for Rack Level Integration, Then the CTO Switch Chassis needs to integrate (with #0D1) to the HP Networking Universal Rack.

**Remarks:**

Drop down under power supply should offer the following options and results:

- **Switch/Router/Power Supply to PDU Power Cord - #B2B in North America, Mexico, Taiwan, and Japan or #B2C ROW. (Watson Default B2B or B2C for Rack Level CTO)**

- **Switch/Router/Power Supply to Wall Power Cord - Localized Option (Watson Default for BTO and Box Level CTO)**

**Internal Power Supplies**

Internal Power supplies included

Enter the following menu selections as integrated to the CTO Model X server above if order is factory built.
QuickSpecs

Configuration

Transceivers

SFP Transceivers

HP X121 1G SFP LC SX Transceiver
HP X121 1G SFP LC LX Transceiver
HP X111 100M SFP LC FX Transceiver
HP X121 1G SFP LC LH Transceiver
HP X122 1G SFP LC BX-D Transceiver
HP X122 1G SFP LC BX-U Transceiver
HP X112 100M SFP LC BX-D Transceiver
HP X112 100M SFP LC BX-U Transceiver
HP X121 1G SFP RJ45 T Transceiver

Cables

Multi-Mode Cables

HP .5m Multi-mode OM3 LC/LC FC Cable
HP 1m Multi-mode OM3 LC/LC FC Cable
HP 2m Multimode OM3 LC/LC FC Cable
HP 5m Multimode OM3 LC/LC FC Cable
HP 15m Multimode OM3 LC/LC FC Cable
HP 30m Multimode OM3 LC/LC FC Cable
HP 50m Multimode OM3 LC/LC FC Cable
HP Premier Flex LC/LC OM4 2f 1m Cbl
HP Premier Flex LC/LC OM4 2f 2m Cbl
HP Premier Flex LC/LC OM4 2f 5m Cbl
HP Premier Flex LC/LC OM4 2f 15m Cbl
HP Premier Flex LC/LC OM4 2f 30m Cbl
HP Premier Flex LC/LC OM4 2f 50m Cbl

Switch Enclosure Options

Cable Guard

HP X510 1U Cable Guard

See Configuration Note: 1
Configuration Rules:

Note 1  This Cable Guard is supported only on the J9783A, J9780A, J9777A and J9774A.

Option Mounting Kit
HP 2530 8-port Switch Pwr Adptr Shelf  J9820A  See Configuration Note:1

Configuration Rules:

Note 1  This Power Adapter Shelf is supported only on the J9783A, J9780A, J9777A and J9774A.

Rack Mount Kit
HP X410 1U Univ 4-post Rack Mnt Kit  J9583A  See Configuration Note:1, 2

Configuration Rules:

Note 1  If this Mounting Kit is order with #0D1 then it integrates to the HP Universal Rack. (not the switch)

Note 2  If the J9583A is ordered in EMEA fire the following UNBUILDABLE error:
"The J9583A cannot be ordered with option integrated to the Rack in the EMEA region. The Rack Mount kit must be ordered as BTO using supplier 80CZ."
### HP 2530-48G-PoE+ Switch I/O ports and slots

(J9772A)

- 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

### 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)

### Memory and processor

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

### 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**
- **100 Mb Latency**: < 7.4 µs (LIFO 64-byte packets)
- **1000 Mb Latency**: < 2.3 µs (LIFO 64-byte packets)
- **Throughput**: up to 77.3 million pps (64-byte packets)
- **Switching capacity**: 104 Gbps
- **MAC address table size**: 16000 entries

### Environment

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

### Electrical characteristics

- **Frequency**: 50/60 Hz
- **Maximum heat dissipation**: 236 BTU/hr (248.98 kJ/hr), (switch only: 236 BTU/hr; combined switch + max. PoE devices: 1624 BTU/hr)
- **AC voltage**: 100-127/200-240 VAC
- **Current**: 5.8/2.9 A
- **Maximum power rating**: 476 W
- **Idle power**: 40.1 W
- **PoE power**: 382 W

### Safety

- 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

### Immunity

- Generic
  - EN 55024, CISPR 24
QuickSpecs

Technical Specifications

EN EN 55024, CISPR 24
ESD IEC 61000-4-2
Radiated IEC 61000-4-3
EFT/Burst IEC 61000-4-4
Surge IEC 61000-4-5
Conducted IEC 61000-4-6
Power frequency magnetic field IEC 61000-4-8
Voltage dips and interruptions IEC 61000-4-11
Harmonics EN 61000-3-2, IEC 61000-3-2
Flicker 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

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.

Services
3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)
3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)
3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)
3-year, 24x7 SW phone support, software updates (UF792E)
4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)
4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)
4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)
4-year, 24x7 SW phone support, software updates (UR951E)
5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)
5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)
3 Yr 6 hr Call-to-Repair Onsite (UW368E)
4 Yr 6 hr Call-to-Repair Onsite (UW369E)
5 Yr 6 hr Call-to-Repair Onsite (UW370E)
1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)
1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)
1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)
1-year, 24x7 software phone support, software updates (HR852E)
1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)
1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)
1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)
3-year, 24x7 software phone support, software updates + Next Business Day
## Hardware Exchange (HS556E)
3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)

## Hardware Exchange (HS557E)
4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)

## Hardware Exchange (HS558E)
4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)

## Hardware Exchange (HS559E)
5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)

## Hardware Exchange (HS560E)
5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)

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

### HP 2530-24G-PoE+ Switch I/O ports and slots

#### (J9773A)

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>17.44(w) x 13.00(d) x 1.75(h) in (44.3 x 33.02 x 4.45 cm) (1U height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>8.7 lb (3.95 kg)</td>
</tr>
</tbody>
</table>

#### Physical characteristics

- 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

#### Performance

- IPv6 Ready Certified
- 100 Mb Latency: < 7.4 µs (LIFO 64-byte packets)
- 1000 Mb Latency: < 2.3 µs (LIFO 64-byte packets)
- Throughput: up to 41.6 million pps (64-byte packets)
- Switching capacity: 56 Gbps
- MAC address table size: 16000 entries

#### Environment

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

- **Frequency**: 50/60 Hz
- **Maximum heat dissipation**: 135 BTU/hr (142.42 kJ/hr), (switch only: 135 BTU/hr; combined switch + max. PoE devices: 843 BTU/hr)
- **AC voltage**: 100-127/200-240 VAC
- **Current**: 3.2/1.6 A
- **Maximum power rating**: 247 W
- **Idle power**: 25.2 W
- **PoE power**: 195 W

Safety

- 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

Immunity

- **Generic**: EN 55024, CISPR 24
- **EN**: EN 55024, CISPR 24
- **ESD**: IEC 61000-4-2
- **Radiated**: IEC 61000-4-3
- **EFT/Burst**: IEC 61000-4-4
- **Surge**: IEC 61000-4-5
- **Conducted**: IEC 61000-4-6
- **Power frequency magnetic field**: IEC 61000-4-8
- **Voltage dips and interruptions**: IEC 61000-4-11
- **Harmonics**: EN 61000-3-2, IEC 61000-3-2
- **Flicker**: 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

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.

Services

- 3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SWupdates (U6321E)
- 3-year, 24x7 SW phone support, software updates (UF792E)
- 4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)
- 4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)
- 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)
- 4-year, 24x7 SW phone support, software updates (UR951E)
- 5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone
### HP 2530 Switch Series

#### Technical Specifications

<table>
<thead>
<tr>
<th>Service Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</td>
<td></td>
</tr>
<tr>
<td>4 Yr 6 hr Call-to-Repair Onsite (UW369E)</td>
<td></td>
</tr>
<tr>
<td>5 Yr 6 hr Call-to-Repair Onsite (UW370E)</td>
<td></td>
</tr>
<tr>
<td>1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)</td>
<td></td>
</tr>
<tr>
<td>1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)</td>
<td></td>
</tr>
<tr>
<td>1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)</td>
<td></td>
</tr>
<tr>
<td>1-year, 24x7 software phone support, software updates (HR852E)</td>
<td></td>
</tr>
<tr>
<td>1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)</td>
<td></td>
</tr>
<tr>
<td>1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)</td>
<td></td>
</tr>
<tr>
<td>1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)</td>
<td></td>
</tr>
<tr>
<td>3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)</td>
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<td>4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)</td>
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<td></td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>I/O ports and slots</th>
<th>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</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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)</td>
</tr>
<tr>
<td></td>
<td>1 dual-personality (RJ-45 or USB micro-B) serial console port</td>
</tr>
</tbody>
</table>

### Physical characteristics

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

### Memory and processor

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

### Mounting

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

### Performance
- **IPv6 Ready Certified**
- **100 Mb Latency**  
  < 7.4µs (LIFO 64-byte packets)
- **1000 Mb Latency**  
  < 2.6µs (LIFO 64-byte packets)
- **Throughput**  
  up to 14.8 million pps (64-byte packets)
- **Switching capacity**  
  20 Gbps
- **MAC address table size**  
  16000 entries
- **Environment**
  - **Operating temperature**  
    32°F to 113°F (0°C to 45°C)
  - **Operating relative humidity**  
    15% to 95% @ 104°F (40°C), non-condensing
  - **Non-operating/Storage temperature**  
    -40°F to 158°F (-40°C to 70°C)
  - **Non-operating/Storage relative humidity**  
    15% to 90% @ 149°F (65°C), noncondensing
  - **Altitude**  
    up to 10,000 ft (3 km)
  - **Acoustic**  
    Power: 0 dB, Pressure: 0 dB

### Electrical characteristics
- **Frequency**  
  50/60 Hz
- **Maximum heat dissipation**  
  65 BTU/hr (68.58 kJ/hr), (switch only: 65 BTU/hr; combined switch + max. PoE devices: 293 BTU/hr)
- **AC voltage**  
  100-127/200-240 VAC
- **Current**  
  1.4 A
- **Maximum power rating**  
  86 W
- **Idle power**  
  13.4 W
- **PoE power**  
  67 W

### Safety
- 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

### Immunity
- **Generic**  
  EN 55024, CISPR 24
- **EN**  
  EN 55024, CISPR 24
- **ESD**  
  IEC 61000-4-2
- **Radiated**  
  IEC 61000-4-3
- **EFT/Burst**  
  IEC 61000-4-4
- **Surge**  
  IEC 61000-4-5
- **Conducted**  
  IEC 61000-4-6
- **Power frequency magnetic field**  
  IEC 61000-4-8
- **Voltage dips and interruptions**  
  IEC 61000-4-11
- **Harmonics**  
  EN 61000-3-2, IEC 61000-3-2
- **Flicker**  
  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
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.

3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)
3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)
3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SWUpdates (U6321E)
3-year, 24x7 SW phone support, software updates (UF792E)
4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)
4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)
4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)
4-year, 24x7 SW phone support, software updates (UR951E)
5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)
5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)
3 Yr 6 hr Call-to-Repair Onsite (UW368E)
4 Yr 6 hr Call-to-Repair Onsite (UW369E)
5 Yr 6 hr Call-to-Repair Onsite (UW370E)
1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)
1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)
1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)
1-year, 24x7 software phone support, software updates (HR852E)
1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)
1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)
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Refer to the HP website at [www.hp.com/networking/services](http://www.hp.com/networking/services) for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.
QuickSpecs

HP 2530 Switch Series

Technical Specifications

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

Physical characteristics

Dimensions 17.4(w) x 12.7(d) x 1.75(h) in (44.2 x 32.2 x 4.45 cm) (1U height)
Weight 10.1 lb (4.58 kg)

Memory and processor

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

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
100 Mb Latency < 6.6 µs (LIFO 64-byte packets)
1000 Mb Latency < 2.2 µs (LIFO 64-byte packets)
Throughput up to 13 million pps (64-byte packets)
Switching capacity 17.6 Gbps
MAC address table size 16000 entries

Environment

Operating temperature 32°F to 113°F (0°C to 45°C)
Operating relative humidity 15% to 95% @ 104°F (40°C), noncondensing
Non-operating/Storage temperature -40°F to 158°F (-40°C to 70°C)
Non-operating/Storage relative humidity 15% to 90% @ 149°F (65°C), noncondensing
Altitude up to 10,000 ft (3 km)
Acoustic Power: 31.8 dB, Pressure: 37.9 dB

Electrical characteristics

Frequency 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)
AC voltage 100-127/200-240 VAC
Current 5.2/2.6 A
Maximum power rating 441 W
Idle power 37.5 W
PoE power 382 W

Safety

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

Immunity

Generic EN 55024, CISPR 24
EN EN 55024, CISPR 24
ESD IEC 61000-4-2
Radiated IEC 61000-4-3
EFT/Burst IEC 61000-4-4
Surge IEC 61000-4-5
Conducted IEC 61000-4-6
Power frequency magnetic field IEC 61000-4-8
Voltage dips and interruptions IEC 61000-4-11
Harmonics EN 61000-3-2, IEC 61000-3-2
Flicker 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

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5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)
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**QuickSpecs**

**HP 2530 Switch Series**

**Technical Specifications**

<table>
<thead>
<tr>
<th>HP 2530-24-PoE+ Switch (J9779A)</th>
<th>I/O ports and slots</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: half or full</td>
</tr>
<tr>
<td></td>
<td>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</td>
</tr>
<tr>
<td></td>
<td>2 fixed Gigabit Ethernet SFP ports</td>
</tr>
<tr>
<td></td>
<td>1 dual-personality (RJ-45 or USB micro-B) serial console port</td>
</tr>
</tbody>
</table>

**Physical characteristics**

| Dimensions | 17.4(w) x 12.7(d) x 1.75(h) in (44.2 x 32.26 x 4.45 cm) (1U height) |
| Weight | 8.4 lb (3.81 kg) |

**Memory and processor**

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

**Mounting**

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

**Performance**

<table>
<thead>
<tr>
<th>IPv6 Ready Certified</th>
</tr>
</thead>
</table>

| 100 Mb Latency | < 1.7 µs (LIFO 64-byte packets) |
| 1000 Mb Latency | < 1.1µs (LIFO 64-byte packets) |
| Throughput | up to 9.5 million pps (64-byte packets) |
| Switching capacity | 12.8 Gbps |
| MAC address table size | 16000 entries |

**Environment**

| Operating temperature | 32°F to 113°F (0°C to 45°C) |
| Operating relative humidity | 15% to 95% @ 104°F (40°C), noncondensing |
| Non-operating/Storage temperature | -40°F to 158°F (-40°C to 70°C) |
| Non-operating/Storage relative humidity | 15% to 90% @ 149°F (65°C), noncondensing |
| Altitude | up to 10,000 ft (3 km) |

Refer to the HP website at [www.hp.com/networking/services](http://www.hp.com/networking/services) for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.
## Acoustic
Power: 31.7 dB, Pressure: 40.4 dB

## Electrical characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Maximum heat</td>
<td>99 BTU/hr (104.45 kJ/hr), (switch only: 99 BTU/hr; combined switch + max. PoE devices: 809 BTU/hr)</td>
</tr>
<tr>
<td>AC voltage</td>
<td>100-127/200-240 VAC</td>
</tr>
<tr>
<td>Current</td>
<td>2.8/1.4 A</td>
</tr>
<tr>
<td>Maximum power rating</td>
<td>237 W</td>
</tr>
<tr>
<td>Idle power</td>
<td>21.8 W</td>
</tr>
<tr>
<td>PoE power</td>
<td>195 W</td>
</tr>
</tbody>
</table>

## Safety
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

## Immunity

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generic</td>
<td>EN 55024, CISPR 24</td>
</tr>
<tr>
<td>EN</td>
<td>EN 55024, CISPR 24</td>
</tr>
<tr>
<td>ESD</td>
<td>IEC 61000-4-2</td>
</tr>
<tr>
<td>Radiated</td>
<td>IEC 61000-4-3</td>
</tr>
<tr>
<td>EFT/Burst</td>
<td>IEC 61000-4-4</td>
</tr>
<tr>
<td>Surge</td>
<td>IEC 61000-4-5</td>
</tr>
<tr>
<td>Conducted</td>
<td>IEC 61000-4-6</td>
</tr>
<tr>
<td>Power frequency magnetic field</td>
<td>IEC 61000-4-8</td>
</tr>
<tr>
<td>Voltage dips and interruptions</td>
<td>IEC 61000-4-11</td>
</tr>
<tr>
<td>Harmonics</td>
<td>EN 61000-3-2, IEC 61000-3-2</td>
</tr>
<tr>
<td>Flicker</td>
<td>EN 61000-3-3, IEC 61000-3-3</td>
</tr>
</tbody>
</table>

## 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

## 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.

## Services

<table>
<thead>
<tr>
<th>Duration</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-year</td>
<td>4-hour onsite, 13x5 coverage for hardware</td>
</tr>
<tr>
<td></td>
<td>(U4683E)</td>
</tr>
<tr>
<td>4-year</td>
<td>4-hour onsite, 24x7 coverage for hardware</td>
</tr>
<tr>
<td></td>
<td>(UR948E)</td>
</tr>
<tr>
<td>5-year</td>
<td>4-hour onsite, 24x7 coverage for hardware</td>
</tr>
<tr>
<td></td>
<td>(UR952E)</td>
</tr>
<tr>
<td>3-year</td>
<td>4-hour onsite, 13x5 coverage for hardware</td>
</tr>
<tr>
<td></td>
<td>(UR951E)</td>
</tr>
<tr>
<td>5-year</td>
<td>4-hour onsite, 24x7 coverage for hardware</td>
</tr>
<tr>
<td></td>
<td>(UR953E)</td>
</tr>
<tr>
<td>4-year</td>
<td>24x7 SW phone support, software updates</td>
</tr>
<tr>
<td></td>
<td>(UF792E)</td>
</tr>
<tr>
<td>5-year</td>
<td>24x7 SW phone support, software updates</td>
</tr>
<tr>
<td></td>
<td>(UR950E)</td>
</tr>
<tr>
<td>4-year</td>
<td>24x7 SW phone support, software updates</td>
</tr>
<tr>
<td></td>
<td>(UR951E)</td>
</tr>
<tr>
<td>5-year</td>
<td>24x7 SW phone support, software updates</td>
</tr>
<tr>
<td></td>
<td>(UR953E)</td>
</tr>
</tbody>
</table>
## QuickSpecs

### HP 2530 Switch Series

#### Technical Specifications

<table>
<thead>
<tr>
<th>HP 2530-8-PoE+ Switch (J9780A)</th>
<th>I/O ports and slots</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: half or full</td>
</tr>
<tr>
<td></td>
<td>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 port (for use with SFP transceivers) ports</td>
</tr>
<tr>
<td></td>
<td>1 dual-personality (RJ-45 or USB micro-B) serial console port</td>
</tr>
</tbody>
</table>

### Physical characteristics

| Dimensions | 10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height) |
| Weight | 2.0 lb (0.91 kg) |

### Memory and processor

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

### Mounting

| 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 |

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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>100 Mb Latency</strong></td>
<td>&lt; 1.3 µs (LIFO 64-byte packets)</td>
</tr>
<tr>
<td><strong>1000 Mb Latency</strong></td>
<td>&lt; 2.3 µs (LIFO 64-byte packets)</td>
</tr>
<tr>
<td><strong>Throughput</strong></td>
<td>up to 4.1 million pps (64-byte packets)</td>
</tr>
<tr>
<td><strong>Switching capacity</strong></td>
<td>5.6 Gbps</td>
</tr>
<tr>
<td><strong>MAC address table size</strong></td>
<td>16000 entries</td>
</tr>
</tbody>
</table>

#### Environment

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating temperature</strong></td>
<td>32°F to 113°F (0°C to 45°C)</td>
</tr>
<tr>
<td><strong>Operating relative humidity</strong></td>
<td>15% to 95% @ 104°F (40°C), noncondensing</td>
</tr>
<tr>
<td><strong>Non-operating/Storage temperature</strong></td>
<td>-40°F to 158°F (-40°C to 70°C)</td>
</tr>
<tr>
<td><strong>Non-operating/Storage relative humidity</strong></td>
<td>15% to 90% @ 149°F (65°C), noncondensing</td>
</tr>
<tr>
<td><strong>Altitude</strong></td>
<td>up to 10,000 ft (3 km)</td>
</tr>
<tr>
<td><strong>Acoustic</strong></td>
<td>Power: 0 dB, Pressure: 0 dB</td>
</tr>
</tbody>
</table>

#### Electrical characteristics

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency</strong></td>
<td>50/60 Hz</td>
</tr>
<tr>
<td><strong>Maximum heat dissipation</strong></td>
<td>29 BTU/hr (30.6 kJ/hr), (switch only: 29 BTU/hr; combined switch + max. PoE devices: 262 TU/hr)</td>
</tr>
<tr>
<td><strong>AC voltage</strong></td>
<td>100-127/200-240 VAC</td>
</tr>
<tr>
<td><strong>Current</strong></td>
<td>1.4 A</td>
</tr>
<tr>
<td><strong>Maximum power rating</strong></td>
<td>76.7 W</td>
</tr>
<tr>
<td><strong>Idle power</strong></td>
<td>5.8 W</td>
</tr>
<tr>
<td><strong>PoE power</strong></td>
<td>67 W</td>
</tr>
</tbody>
</table>

#### Safety

- 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

#### Immunity

- **Generic**: EN 55024, CISPR 24
- **EN**: EN 55024, CISPR 24
- **ESD**: IEC 61000-4-2
- **Radiated**: IEC 61000-4-3
- **EFT/Burst**: IEC 61000-4-4
- **Surge**: IEC 61000-4-5
- **Conducted**: IEC 61000-4-6
- **Power frequency magnetic field**: IEC 61000-4-8
- **Voltage dips and interruptions**: IEC 61000-4-11
- **Harmonics**: EN 61000-3-2, IEC 61000-3-2
- **Flicker**: 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
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.

Services

3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)
3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)
3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)
3-year, 24x7 SW phone support, software updates (UF792E)
4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)
4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)
4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)
4-year, 24x7 SW phone support, software updates (UR951E)
5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)
5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)
3 Yr 6 hr Call-to-Repair Onsite (UW368E)
4 Yr 6 hr Call-to-Repair Onsite (UW369E)
5 Yr 6 hr Call-to-Repair Onsite (UW370E)
1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)
1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)
1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)
1-year, 24x7 software phone support, software updates (HR852E)
1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)
1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)
1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)
3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)
3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)
4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)
4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)
5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)
5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)

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

<table>
<thead>
<tr>
<th>HP 2530-48G Switch (J9775A)</th>
<th>I/O ports and slots</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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:</td>
</tr>
</tbody>
</table>

HP 2530 Switch Series

Technical Specifications
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: 6.8 lb (3.08 kg)

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

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
100 Mb Latency: < 7.4 µs (LIFO 64-byte packets)
1000 Mb Latency: < 2.3 µs (LIFO 64-byte packets)
Throughput: up to 77.3 million pps (64-byte packets)
Switching capacity: 104 Gbps
MAC address table size: 16000 entries

Environment
Operating temperature: 32°F to 113°F (0°C to 45°C)
Operating relative humidity: 15% to 95% @ 104°F (40°C), noncondensing
Non-operating/Storage temperature: -40°F to 158°F (-40°C to 70°C)
Non-operating/Storage relative humidity: 15% to 90% @ 149°F (65°C), noncondensing
Altitude: up to 10,000 ft (3 km)
Acoustic: Power: 31.0 dB, Pressure: 34.5 dB

Electrical characteristics
Frequency: 50/60 Hz
Achieved Miercom Certified Green Award
Maximum heat dissipation: 203 BTU/hr (214.17 kJ/hr)
AC voltage: 100-127/200-240 VAC
Current: 1.2/0.7 A
Maximum power rating: 59.5 W
Idle power: 29.5 W

Safety
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

Immunity
Generic: EN 55024, CISPR 24
EN: EN 55024, CISPR 24
ESD: IEC 61000-4-2
Radiated: IEC 61000-4-3
EFT/Burst: IEC 61000-4-4
**QuickSpecs**

**HP 2530 Switch Series**

**Technical Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surge</td>
<td>IEC 61000-4-5</td>
</tr>
<tr>
<td>Conducted</td>
<td>IEC 61000-4-6</td>
</tr>
<tr>
<td>Power frequency</td>
<td>IEC 61000-4-8</td>
</tr>
<tr>
<td>magnetic field</td>
<td></td>
</tr>
<tr>
<td>Voltage dips and</td>
<td>IEC 61000-4-11</td>
</tr>
<tr>
<td>interruptions</td>
<td></td>
</tr>
<tr>
<td>Harmonics</td>
<td>EN 61000-3-2, IEC 61000-3-2</td>
</tr>
<tr>
<td>Flicker</td>
<td>EN 61000-3-3, IEC 61000-3-3</td>
</tr>
</tbody>
</table>

**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

**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.

**Services**

- 3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SWUpdates (U6321E)
- 3-year, 24x7 SW phone support, software updates (UF792E)
- 4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)
- 4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)
- 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)
- 4-year, 24x7 SW phone support, software updates (UR951E)
- 5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)
- 3 Yr 6 hr Call-to-Repair Onsite (UW368E)
- 4 Yr 6 hr Call-to-Repair Onsite (UW369E)
- 5 Yr 6 hr Call-to-Repair Onsite (UW370E)
- 1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)
- 1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)
- 1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)
- 1-year, 24x7 software phone support, software updates (HR852E)
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- 1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)
- 1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)
- 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)
- 3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)
- 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)
4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)
5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)
5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)

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

| HP 2530-24G Switch (J9776A) | I/O ports and slots | 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
Supports a maximum of 28 Gigabit Ethernet ports |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical characteristics</td>
<td>Dimensions</td>
<td>17.44(w) x 10.00(d) x 1.75(h) in (44.3 x 25.4 x 4.45 cm) (1U height)</td>
</tr>
<tr>
<td></td>
<td>Weight</td>
<td>6.1 lb (2.77 kg)</td>
</tr>
<tr>
<td>Memory and processor</td>
<td>Processor</td>
<td>ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated</td>
</tr>
<tr>
<td>Mounting</td>
<td></td>
<td>Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting</td>
</tr>
<tr>
<td>Performance</td>
<td></td>
<td>IPv6 Ready Certified</td>
</tr>
<tr>
<td></td>
<td>100 Mb Latency</td>
<td>&lt; 7.4 µs (LIFO 64-byte packets)</td>
</tr>
<tr>
<td></td>
<td>1000 Mb Latency</td>
<td>&lt; 2.3 µs (LIFO 64-byte packets)</td>
</tr>
<tr>
<td></td>
<td>Throughput</td>
<td>up to 41.6 million pps (64-byte packets)</td>
</tr>
<tr>
<td></td>
<td>Switching capacity</td>
<td>56 Gbps</td>
</tr>
<tr>
<td></td>
<td>MAC address table size</td>
<td>16000 entries</td>
</tr>
<tr>
<td>Environment</td>
<td>Operating temperature</td>
<td>32°F to 113°F (0°C to 45°C)</td>
</tr>
<tr>
<td></td>
<td>Operating relative humidity</td>
<td>15% to 95% @ 104°F (40°C), noncondensing</td>
</tr>
<tr>
<td></td>
<td>Non-operating/Storage temperature</td>
<td>-40°F to 158°F (-40°C to 70°C)</td>
</tr>
<tr>
<td></td>
<td>Non-operating/Storage relative humidity</td>
<td>15% to 90% @ 149°F (65°C), noncondensing</td>
</tr>
<tr>
<td></td>
<td>Altitude</td>
<td>up to 10,000 ft (3 km)</td>
</tr>
<tr>
<td></td>
<td>Acoustic</td>
<td>Power: 26.4 dB, Pressure: 34.0 dB</td>
</tr>
<tr>
<td>Electrical characteristics</td>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>Maximum heat dissipation</td>
<td>164 BTU/hr (173.02 kJ/hr)</td>
</tr>
<tr>
<td></td>
<td>AC voltage</td>
<td>100-127/200-240 VAC</td>
</tr>
</tbody>
</table>
### QuickSpecs
#### HP 2530 Switch Series

#### Technical Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
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</tr>
<tr>
<td>Maximum power rating</td>
<td>48.0 W</td>
</tr>
<tr>
<td>Idle power</td>
<td>28.8 W</td>
</tr>
<tr>
<td>Safety</td>
<td>UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1</td>
</tr>
<tr>
<td>Emissions</td>
<td>FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A</td>
</tr>
<tr>
<td>Immunity</td>
<td>Generic: EN 55024, CISPR 24</td>
</tr>
<tr>
<td></td>
<td>EN: EN 55024, CISPR 24</td>
</tr>
<tr>
<td></td>
<td>ESD: IEC 61000-4-2</td>
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<tr>
<td></td>
<td>Radiated: IEC 61000-4-3</td>
</tr>
<tr>
<td></td>
<td>EFT/Burst: IEC 61000-4-4</td>
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<tr>
<td></td>
<td>Surge: IEC 61000-4-5</td>
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<td>Conducted: IEC 61000-4-6</td>
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<td></td>
<td>Power frequency magnetic field: IEC 61000-4-8</td>
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<tr>
<td></td>
<td>Voltage dips and interruptions: IEC 61000-4-11</td>
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<tr>
<td>Harmonics</td>
<td>EN 61000-3-2, IEC 61000-3-2</td>
</tr>
<tr>
<td>Flicker</td>
<td>EN 61000-3-3, IEC 61000-3-3</td>
</tr>
<tr>
<td>Management</td>
<td>IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; Out-of-band management (serial RS-232C or MicroUSB); IEC 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB</td>
</tr>
<tr>
<td>Notes</td>
<td>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 &quot;B&quot; or later (product number ends with the letter &quot;B&quot; or later, e.g., J4858B, J4859C) are required.</td>
</tr>
<tr>
<td>Services</td>
<td>3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)</td>
</tr>
<tr>
<td></td>
<td>3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)</td>
</tr>
<tr>
<td></td>
<td>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SWUpdates (U6321E)</td>
</tr>
<tr>
<td></td>
<td>3-year, 24x7 SW phone support, software updates (UF792E)</td>
</tr>
<tr>
<td></td>
<td>4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)</td>
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<tr>
<td></td>
<td>4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)</td>
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<td></td>
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<tr>
<td></td>
<td>3 Yr 6 hr Call-to-Repair Onsite (UW368E)</td>
</tr>
<tr>
<td></td>
<td>4 Yr 6 hr Call-to-Repair Onsite (UW369E)</td>
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<tr>
<td></td>
<td>5 Yr 6 hr Call-to-Repair Onsite (UW370E)</td>
</tr>
<tr>
<td></td>
<td>1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)</td>
</tr>
<tr>
<td></td>
<td>1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)</td>
</tr>
<tr>
<td></td>
<td>1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)</td>
</tr>
</tbody>
</table>
## HP 2530 Switch Series

### Technical Specifications

- **1-year, 24x7 software phone support, software updates (HR852E)**
- **1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)**
- **1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)**
- **1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)**
- **3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)**
- **3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)**
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- **4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)**
- **5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)**
- **5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)**

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

### HP 2530-8G Switch (J9777A)

**I/O ports and slots**

- 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-T); 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) ports
- 1 dual-personality (RJ-45 or USB micro-B) serial console port

**Physical characteristics**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>2.0 lb (0.91 kg)</td>
</tr>
</tbody>
</table>

**Memory and processor**

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

**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**
- **100 Mb Latency**
  - < 7.4 µs (LIFO 64-byte packets)
- **1000 Mb Latency**
  - < 2.6 µs (LIFO 64-byte packets)
- **Throughput**
  - up to 14.8 million pps (64-byte packets)
- **Switching capacity**
  - 20 Gbps
- **MAC address table size**
  - 16000 entries
## Technical Specifications

### Environment
- **Operating temperature**: 32°F to 113°F (0°C to 45°C)
- **Operating relative humidity**: 15% to 95% @ 104°F (40°C), noncondensing
- **Non-operating/Storage temperature**: -40°F to 158°F (-40°C to 70°C)
- **Non-operating/Storage relative humidity**: 15% to 90% @ 149°F (65°C), noncondensing
- **Altitude**: up to 10,000 ft (3 km)
- **Acoustic**
  - Power: 0 dB, Pressure: 0 dB

### Electrical characteristics
- **Frequency**: 50/60 Hz
- **Maximum heat dissipation**: 63 BTU/hr (66.46 kJ/hr), (switch only: 63 BTU/hr)
- **AC voltage**: 100-127/200-240 VAC
- **Current**: 0.5 A
- **Maximum power rating**: 18.6 W
- **Idle power**: 13.6 W

### Safety
- **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**

### Immunity
- **Generic**: EN 55024, CISPR 24
- **EN**: EN 55024, CISPR 24
- **ESD**: IEC 61000-4-2
- **Radiated**: IEC 61000-4-3
- **EFT/Burst**: IEC 61000-4-4
- **Surge**: IEC 61000-4-5
- **Conducted**: IEC 61000-4-6
- **Power frequency magnetic field**: IEC 61000-4-8
- **Voltage dips and interruptions**: IEC 61000-4-11
- **Harmonics**: EN 61000-3-2, IEC 61000-3-2
- **Flicker**: 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 MicroUSB); 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.

### Services
- 3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SWUpdates (U6321E)
3-year, 24x7 SW phone support, software updates (UF792E)
4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)
4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)
4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)
4-year, 24x7 SW phone support, software updates (UR951E)
5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)
5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)
3 Yr 6 hr Call-to-Repair Onsite (UW368E)
4 Yr 6 hr Call-to-Repair Onsite (UW369E)
5 Yr 6 hr Call-to-Repair Onsite (UW370E)
1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)
1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)
1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)
1-year, 24x7 software phone support, software updates (HR852E)
1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)
1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)
1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)
3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)
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4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)
5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)
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<table>
<thead>
<tr>
<th>HP 2530-48 Switch (J9781A)</th>
<th>I/O ports and slots</th>
</tr>
</thead>
<tbody>
<tr>
<td>48 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full</td>
<td></td>
</tr>
<tr>
<td>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</td>
<td></td>
</tr>
<tr>
<td>2 fixed Gigabit Ethernet SFP ports</td>
<td></td>
</tr>
<tr>
<td>1 dual-personality (RJ-45 or USB micro-B) serial console port</td>
<td></td>
</tr>
</tbody>
</table>
### Physical characteristics

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>17.4(w) x 9.7(d) x 1.75(h) in (44.2 x 24.64 x 4.45 cm) (1U height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>6.3 lb (2.86 kg)</td>
</tr>
</tbody>
</table>

### Memory and processor

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

### 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**
- **100 Mb Latency** < 6.6 µs (LIFO 64-byte packets)
- **1000 Mb Latency** < 2.2 µs (LIFO 64-byte packets)
- **Throughput** up to 13 million pps (64-byte packets)
- **Switching capacity** 17.6 Gbps
- **MAC address table size** 16000 entries

### Environment

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

### Electrical characteristics

- **Frequency** 50/60 Hz
- **Maximum heat dissipation** 102 BTU/hr (107.61 kJ/hr)
- **AC voltage** 100-127/200-240 VAC
- **Current** 0.7/0.4 A
- **Maximum power rating** 29.9 W
- **Idle power** 17.1 W

### Safety

- 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

### Immunity

- **Generic** EN 55024, CISPR 24
- **EN** EN 55024, CISPR 24
- **ESD** IEC 61000-4-2
- **Radiated** IEC 61000-4-3
- **EFT/Burst** IEC 61000-4-4
- **Surge** IEC 61000-4-5
- **Conducted** IEC 61000-4-6
- **Power frequency magnetic field** IEC 61000-4-8
## Technical Specifications

<table>
<thead>
<tr>
<th><strong>Voltage dips and interruptions</strong></th>
<th>IEC 61000-4-11</th>
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</thead>
<tbody>
<tr>
<td><strong>Harmonics</strong></td>
<td>EN 61000-3-2, IEC 61000-3-2</td>
</tr>
<tr>
<td><strong>Flicker</strong></td>
<td>EN 61000-3-3, IEC 61000-3-3</td>
</tr>
</tbody>
</table>

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<td>IMC - Intelligent Management Center; command-line interface; Web browser; configuration menu; Out-of-band management (serial RS-232C or MicroUSB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB</td>
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<td>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)</td>
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<tr>
<td>5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)</td>
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</table>
Exchange (HS561E)

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<table>
<thead>
<tr>
<th>HP 2530-24 Switch (J9782A)</th>
<th>I/O ports and slots</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full</td>
</tr>
<tr>
<td></td>
<td>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</td>
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<td>2 fixed Gigabit Ethernet SFP ports</td>
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<td>1 dual-personality (RJ-45 or USB micro-B) serial console port</td>
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| 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) |
|                         | Weight | 5.7 lb (2.59 kg) |

| Memory and processor | Processor | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated |

| 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 |
|            | 100 Mb Latency | < 1.7 µs (LIFO 64-byte packets) |
|            | 1000 Mb Latency | < 1.1 µs (LIFO 64-byte packets) |
|            | Throughput | up to 9.5 million pps (64-byte packets) |
|            | Switching capacity | 12.8 Gbps |
|            | MAC address table size | 16000 entries |

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

| Electrical characteristics | Frequency | 50/60 Hz |
|                          | Maximum heat dissipation | 50 BTU/hr (52.75 kJ/hr) |
|                          | AC voltage | 100-127/200-240 VAC |
|                          | Current | 0.3/0.2 A |
|                          | Maximum power rating | 14.7 W |
Technical Specifications

**Idle power**
- 8.4 W

**Safety**
- 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

**Immunity**
- **Generic**
  - EN 55024, CISPR 24
  - IEC 61000-4-2
- **EN**
  - EN 55024, CISPR 24
- **ESD**
  - IEC 61000-4-3
- **Radiated**
  - IEC 61000-4-3
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  - IEC 61000-4-5
- **Conducted**
  - IEC 61000-4-6
- **Power frequency magnetic field**
  - IEC 61000-4-8
- **Voltage dips and interruptions**
  - IEC 61000-4-11
- **Harmonics**
  - EN 61000-3-2, IEC 61000-3-2
- **Flicker**
  - 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 MicroUSB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB

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**Services**
- 3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)
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- 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)
- 4-year, 24x7 SW phone support, software updates (UR951E)
- 5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)
- 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)
- 3 Yr 6 hr Call-to-Repair Onsite (UW368E)
- 4 Yr 6 hr Call-to-Repair Onsite (UW369E)
- 5 Yr 6 hr Call-to-Repair Onsite (UW370E)
- 1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)
- 1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)
- 1-year, 6 hour Call-To-Repair Onsite for hardware (HR853E)
- 1-year, 24x7 software phone support, software updates (HR852E)
- 1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR851E)
## HP 2530-8 Switch (J9783A)

### I/O ports and slots
- 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**: 10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height)
- **Weight**: 1.8 lb (0.82 kg)

### Memory and processor
- **Processor**: ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated

### 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**
- **100 Mb Latency**: < 1.3 µs (LIFO 64-byte packets)
- **1000 Mb Latency**: < 1.3 µs (LIFO 64-byte packets)
- **Throughput**: up to 4.1 million pps (64-byte packets)
- **Switching capacity**: 5.6 Gbps
- **MAC address table size**: 16000 entries

### Environment
- **Operating temperature**: 32°F to 113°F (0°C to 45°C)
- **Operating relative humidity**: 15% to 95% @ 104°F (40°C), noncondensing

Refer to the HP website at [www.hp.com/networking/services](http://www.hp.com/networking/services) for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.
Non-operating/Storage temperature
-40°F to 158°F (-40°C to 70°C)

Non-operating/Storage relative humidity
15% to 90% @ 149°F (65°C), noncondensing

Altitude
up to 10,000 ft (3 km)

Acoustic
Power: 0 dB, Pressure: 0 dB

Electrical characteristics
Frequency
50/60 Hz

Maximum heat dissipation
25 BTU/hr (26.38 kJ/hr)

AC voltage
100-127/200-240 VAC

Current
0.5 A

Maximum power rating
7.2 W

Idle power
4.5 W

Safety
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

Immunity
Generic
EN 55024, CISPR 24

EN
EN 55024, CISPR 24

ESD
IEC 61000-4-2

Radiated
IEC 61000-4-3

EFT/Burst
IEC 61000-4-4

Surge
IEC 61000-4-5

Conducted
IEC 61000-4-6

Power frequency magnetic field
IEC 61000-4-8

Voltage dips and interruptions
IEC 61000-4-11

Harmonics
EN 61000-3-2, IEC 61000-3-2

Flicker
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 MicroUSB); 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.

Services
3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)
3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)
3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U6321E)
3-year, 24x7 SW phone support, software updates (UF792E)
4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)
4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)
4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone
4-year, 24x7 SW phone support, software updates (UR951E)
5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)
5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)
5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UR954E)
3 Yr 6 hr Call-to-Repair Onsite (UW368E)
4 Yr 6 hr Call-to-Repair Onsite (UW369E)
5 Yr 6 hr Call-to-Repair Onsite (UW370E)
1-year, 4-hour onsite, 13x5 coverage for hardware (HR849E)
1-year, 4-hour onsite, 24x7 coverage for hardware (HR850E)
1-year, 6 hour Call-To-Repair Onsite for hardware (HR851E)
1-year, 24x7 software phone support, software updates (HR852E)
1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR853E)
1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS554E)
1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS555E)
3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS556E)
3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS557E)
4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS558E)
4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS559E)
5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS560E)
5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS561E)

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

Standards and protocols (applies to all products in series)

<table>
<thead>
<tr>
<th>Denial of service protection</th>
<th>Network DoS Filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device management</td>
<td>RFC 1591 DNS (client)</td>
</tr>
<tr>
<td></td>
<td>SSHv1/SSHv2 Secure Shell</td>
</tr>
<tr>
<td>General protocols</td>
<td>IEEE 802.1D MAC Bridges</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.1p Priority</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.1Q VLANs</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.1s Multiple Spanning Trees</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.1w Rapid Reconfiguration of Spanning Tree</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.3 Type 10BASE-T</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.3ab 1000BASE-T</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.3ad Link Aggregation Control Protocol (LACP)</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.3af Power over Ethernet</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.3at Power over Ethernet Plus</td>
</tr>
</tbody>
</table>
Technical Specifications

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 BOOTP
RFC 1350 TFTP Protocol (revision 2)
RFC 1542 BOOTP Extensions
RFC 2030 Simple Network Time Protocol (SNTP) v4
RFC 2131 DHCP

IP multicast
RFC 3376 IGMPv3 (host joins only)

IPv6
RFC 1981 IPv6 Path MTU Discovery
RFC 2460 IPv6 Specification
RFC 2925 Remote Operations MIB (Ping only)
RFC 3315 DHCPv6 (client only)
RFC 3513 IPv6 Addressing Architecture
RFC 3596 DNS Extension 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 4293 MIB for IP
RFC 4419 Key Exchange for SSH
RFC 4443 ICMPv6
RFC 4861 IPv6 Neighbor Discovery
RFC 4862 IPv6 Stateless Address Auto-configuration

MIBs
RFC 1213 MIB II
RFC 1493 Bridge MIB
RFC 2021 RMONv2 MIB
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

Network management
IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
RFC 1098 A Simple Network Management Protocol (SNMP)
RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)
ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
Technical Specifications

**QoS/CoS**
- SNMPv1/v2c/v3
- 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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP X121 1G SFP LC SX Transceiver</td>
<td>J4858C</td>
</tr>
<tr>
<td>HP X121 1G SFP LC LX Transceiver</td>
<td>J4859C</td>
</tr>
<tr>
<td>HP X121 1G SFP LC LH Transceiver</td>
<td>J4860C</td>
</tr>
<tr>
<td>HP X111 100M SFP LC FX Transceiver</td>
<td>J9054C</td>
</tr>
<tr>
<td>HP X112 100M SFP LC BX-D Transceiver</td>
<td>J9099B</td>
</tr>
<tr>
<td>HP X112 100M SFP LC BX-U Transceiver</td>
<td>J9100B</td>
</tr>
<tr>
<td>HP X122 1G SFP LC BX-D Transceiver</td>
<td>J9142B</td>
</tr>
<tr>
<td>HP X122 1G SFP LC BX-U Transceiver</td>
<td>J9143B</td>
</tr>
<tr>
<td>HP X121 1G SFP RJ45 T Transceiver</td>
<td>J8177C</td>
</tr>
</tbody>
</table>

**Mounting Kit**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP X410 1U Universal 4-post Rack Mounting Kit</td>
<td>J9583A</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP 2530-8G-PoE+ Switch Power Adapter Shelf</td>
<td>J9820A</td>
</tr>
</tbody>
</table>

## HP 2530-8G Switch (J9777A)

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP 2530-8G Switch Power Adapter Shelf</td>
<td>J9820A</td>
</tr>
</tbody>
</table>

## HP 2530-8 Switch (J9783A)

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP 2530-8 Switch Power Adapter Shelf</td>
<td>J9820A</td>
</tr>
</tbody>
</table>
### HP X111 100M SFP LC FX Transceiver (J9054C)

**Ports**
- 1 LC 100BASE-FX port (IEEE 802.3u Type 100BASE-FX); Duplex: half or full

**Physical characteristics**
- Dimensions: 2.7(d) x 0.54(w) x 0.48(h) in. (6.86 x 1.38 x 1.22 cm)
- Weight: 0.06 lb. (0.03 kg)

**Environment**
- Operating temperature: 32°F to 158°F (0°C to 70°C)
- Operating relative humidity: 5% to 95%
- Nonoperating/Storage temperature: -40°F to 185°F (-40°C to 85°C)
- Nonoperating/Storage relative humidity: 5% to 85%
- Altitude: up to 10,000 ft. (3 km)

**Cabling**
- Type:
  - 62.5/125 µm or 50/125 µm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively

**Maximum distance:**
- 2 km (full duplex) or 412 m (half duplex)

**Notes**
- Transmitter wavelength: 1310nm
- Power consumption is 1.1 watt maximum.

For supported platforms and minimum software requirements to support this product, see the document titled "Support for the J9054B 100-FX SFP-LC Transceiver" on the "HP Mini-GBICs and SFPs" Manuals Web page.

### HP X112 100M SFP LC BX-D Transceiver (J9099B)

**Ports**
- 1 LC 100BASE-BX10 port (IEEE 802.3ah Type 100BASE-BX10-D); Duplex: full only

**Physical characteristics**
- Dimensions: 2.7(d) x 0.55(w) x 0.48(h) in. (6.86 x 1.39 x 1.22 cm)
- Weight: 0.04 lb. (0.03 kg)

**Environment**
- Operating temperature: 32°F to 158°F (0°C to 70°C)
- Operating relative humidity: 0% to 95%, noncondensing
- Nonoperating/Storage temperature: -40°F to 185°F (-40°C to 85°C)

**Cabling**
- Type:
  - Single-mode fiber optic, complying with ITU-T G.652;

**Maximum distance:**
- 0.5-10,000 m (single-mode fiber)
### HP X112 100M SFP LC BX-U Ports Transceiver (J9100B)

A small form-factor pluggable (SFP) 100-Megabit BX (bi-directional) "upstream" transceiver that provides 100 Mbps full-duplex connectivity up to 10 km on one strand of singlemode fiber. The J9100B connects to the J9099B "downstream" transceiver, or to any IEEE-standard 100BASE-BX10-D ("downstream") device.

### Physical characteristics

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>2.7(d) x 0.55(w) x 0.48(h) in. (6.86 x 1.39 x 1.22 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>0.07 lb. (.03 kg)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>32°F to 158°F (0°C to 70°C)</td>
</tr>
<tr>
<td>Operating relative humidity</td>
<td>0% to 95%, noncondensing</td>
</tr>
<tr>
<td>Nonoperating/Storage temperature</td>
<td>-40°F to 185°F (-40°C to 85°C)</td>
</tr>
</tbody>
</table>

### Cabling

- Single-mode fiber optic, complying with ITU-T G.652;
- Maximum distance:
  - 0.5-10,000 m (single-mode fiber)

### Notes

For supported platforms and minimum software requirements to support this product, see the document titled "Support for the HP BX Transceivers" on the "HP Mini-GBICs and SFPs" Manuals Web page.

The J9099B connects to the J9100B "upstream" transceiver, or to any IEEE-standard 100BASE-BX10-U ("upstream") device. (A 100-BX-D transceiver can only connect to a 100-BX-U product. You cannot connect two 100-BX-D transceivers together.)

Power consumption is 1.1 watts maximum.

### Services

Refer to the HP website at [www.hp.com/networking/services](http://www.hp.com/networking/services) for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.
**HP X121 1G SFP LC SX Transceiver (J4858C)**

A small form-factor pluggable (SFP) Gigabit SX transceiver that provides a full-duplex Gigabit solution up to 550 m on multimode fiber.

**Ports**
1 LC 1000BASE-SX port; Duplex: full only

**Physical characteristics**
Dimensions: 2.24(d) x 0.54(w) x 0.48(h) in. (5.69 x 1.37 x 1.22 cm)
Weight: 0.04 lb. (0.02 kg)
Transceiver form factor: SFP

**Environment**
Operating temperature: 32°F to 158°F (0°C to 70°C)
Operating relative humidity: 5% to 85%, noncondensing
Nonoperating/Storage temperature: -40°F to 203°F (-40°C to 85°C)
Altitude: up to 10,000 ft. (3 km)

**Electrical characteristics**
Power consumption typical: 0.4 W
Power consumption maximum: 0.7 W

**Cabling**
- 62.5/125 µm or 50/125 µm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively;

Maximum distance:
- 2-220 m (62.5 µm core diameter, 160 MHz*km bandwidth)
- 2-275 m (62.5 µm core diameter, 200 MHz*km bandwidth)
- 2-500 m (50 µm core diameter, 400 MHz*km bandwidth)
- 2-550 m (50 µm core diameter, 500 MHz*km bandwidth)

Cable length: 2-550m
Fiber type: Multi Mode

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

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**HP X121 1G SFP LC LX Transceiver (J4859C)**

HP X121 1G SFP LC LX Transceiver: An SFP format gigabit transceiver with LC connectors using LX technology.

**Ports**
1 LC 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX); Duplex: full only

**Physical characteristics**
Dimensions: 2.24(d) x 0.54(w) x 0.486(h) in. (5.69 x 1.37 x 1.23 cm)
Weight: 0.04 lb. (0.02 kg)

**Environment**
Operating temperature: 32°F to 158°F (0°C to 70°C)
Operating relative humidity: 0% to 85%, noncondensing
Nonoperating/Storage temperature: -40°F to 212°F (-40°C to 100°C)
Altitude: up to 10,000 ft. (3 km)

**Cabling**
- Either single mode or multimode; 62.5/125 µm or 50/125 µm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively; Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1;

Maximum distance:
- 2-550 m (multimode 62.5 µm core diameter, 500 MHz*km bandwidth)
- 2-550 m (multimode 50 µm core diameter, 400 MHz*km bandwidth)
- 2-550 m (multimode 50 µm core diameter, 500 MHz*km bandwidth)
- 2-10,000 m (single-mode fiber)
## HP X121 1G SFP LC LH Transceiver (J4860C)

A small form-factor pluggable (SFP) Gigabit LH transceiver that provides a full-duplex Gigabit solution up to 70 km on single-mode fiber.

### Notes
- A mode conditioning patch cord may be needed in some multimode fiber installations.
- Wavelength: 1310nm
- Power Consumption: < 500mW Typical

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

### Ports
- 1 LC 1000BASE-LH port (no IEEE standard exists for 1550 nm optics); Duplex: full only

### Physical characteristics
- **Dimensions**: 2.17(d) x 0.60(w) x 0.46(h) in. (5.5 x 1.53 x 1.18 cm)
- **Weight**: 0.04 lb. (0.02 kg)

### Environment
- **Operating temperature**: -40°F to 185°F (-40°C to 85°C)
- **Operating relative humidity**: 0% to 95% @ 77°F (25°C), noncondensing
- **Nonoperating/Storage temperature**: -40°F to 185°F (-40°C to 85°C)
- **Altitude**: up to 10,000 ft. (3 km)

### Cabling
- **Cable type**: Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1;

### Notes
- Power consumption is 0.8 watts typical with 1 watt maximum at 100% utilization.
- For distances less than 20 km, a 10 dB attenuator must be used.
- For distances between 20 km and 40 km, a 5 dB attenuator must be used.
- Attenuators can be purchased from most cable vendors.

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

### HP X122 1G SFP LC-BX-D Transceiver (J9142B)

**Ports**

<table>
<thead>
<tr>
<th>Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC 1</td>
<td>1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-D); Duplex: full only</td>
</tr>
</tbody>
</table>

**Physical characteristics**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.19(d) x 0.54(w) x 0.46(h) in. (5.57 x 1.37 x 1.18 cm)</td>
<td></td>
</tr>
</tbody>
</table>

| Weight | 0.04 lb. (0.02 kg) |

<table>
<thead>
<tr>
<th>Environment</th>
<th>Operating temperature</th>
<th>32°F to 158°F (0°C to 70°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating relative humidity</td>
<td>0% to 95%, non-condensing</td>
<td></td>
</tr>
<tr>
<td>Non-operating/Storage temperature</td>
<td>−40°F to 185°F −40°C to 85°C</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

- Power consumption is 1 watt maximum.
- For supported platforms and minimum software requirements to support this product, see the document titled "Support for the HP BX Transceivers" on the "HP Mini-GBICs and SFPs" Manuals Web page.
- The J9142B connects to the J9143B "upstream" transceiver, or to any IEEE-standard 1000BASE-BX10-U ("upstream") device.
- A 1000-BX-D transceiver can only connect to a 1000-BX-U product. You cannot connect two 1000-BX-D transceivers together.

### HP X122 1G SFP LC-BX-U Transceiver (J9143B)

**Ports**

<table>
<thead>
<tr>
<th>Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC 1</td>
<td>1000BASE-BX10 port (IEEE 802.3ah Type 1000BASE-BX10-U); Duplex: full only</td>
</tr>
</tbody>
</table>

**Physical characteristics**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.19(d) x 0.54(w) x 0.46(h) in. (5.57 x 1.37 x 1.18 cm)</td>
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</tbody>
</table>

| Weight | 0.04 lb. (0.02 kg) |

<table>
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<tbody>
<tr>
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<td>Non-operating/Storage temperature</td>
<td>−40°F to 185°F −40°C to 85°C</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**


**Services**

Refer to the HP website at [www.hp.com/networking/services](http://www.hp.com/networking/services) for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.
For supported platforms and minimum software requirements to support this product, see the document titled "Support for the HP BX Transceivers" on the "HP Mini-GBICs and SFPs" Manuals Web page.
The J9143B connects to the J9142B "downstream" transceiver, or to any IEEE-standard 1000BASE-BX10-D ("downstream") device. (A 1000-BX-U transceiver can only connect to a 1000-BX-D product. You cannot connect two 1000-BX-U transceivers together.)
Power consumption is 1 watt maximum.

The J9143B connects to the J9142B "downstream" transceiver, or to any IEEE-standard 1000BASE-BX10-D ("downstream") device. (A 1000-BX-U transceiver can only connect to a 1000-BX-D product. You cannot connect two 1000-BX-U transceivers together.)
Power consumption is 1 watt maximum.

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

HP X121 1G SFP RJ45 T Transceiver (J8177C)
A small form-factor pluggable (SFP) Gigabit copper transceiver that provides a full-duplex Gigabit solution up to 100 m on Category 5 or better cable

Ports
1 RJ-45 1000BASE-T port (IEEE 802.3ab Type 1000BASE-T); Duplex: full only

Physical characteristics
Dimensions: 0.54(w) x 2.71(d) x 0.55(h) in (1.37 x 6.88 x 1.4 cm)
Weight: 0.06 lb (0.03 kg)

Environment
Operating temperature: 32°F to 158°F (0°C to 70°C); with 100 LFM airflow over the SFP module
Operating relative humidity: 0% to 95% @ 75°F (25°C), noncondensing
Nonoperating/Storage temperature: -40°F to 185°F (-40°C to 85°C)
Nonoperating/Storage relative humidity: 0% to 95% @ 77°F (25°C), noncondensing
Altitude: up to 10,000 ft. (3000 km)

Cabling
Cable type:
1000BASE-T: Category 5 (5E or better recommended), 100 Ù differential 4-pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000BASE-T;

Maximum distance:
- 100 m

Notes
Power consumption is nominally 1 watt.
For supported platforms and minimum software requirements to support this product, see the document titled "Support for the J8177C 1000Base-T Mini-GBIC" on the "HP Mini-GBICs and SFPs" Manuals Web page.
The J8177C Gigabit copper mini-GBIC is not supported on dual-personality ports.
The J8177C is capable of 100 Mb operation. This is supported on only the HP ProCurve Switch 8200zl, 5400zl, and 6200yl Series using software version K.12.21 or later. Use the "auto-100" port setting to enable 100 Mb operation.
Important: Important: The earlier J8177B does not support 100 Mb operation. When used in the ProCurve Switch gl 20-Port 10/100/1000 Module (J4908A), the J8177C mini-GBIC can be installed in either the upper or lower mini-GBIC port, but will block access to the other port.
**QuickSpecs**

**HP 2530 Switch Series**

**Accessory Product Details**

**HP X410 1U Universal 4-post Rack Mounting Kit (J9583A)**

**Notes**
The rack mounting kit supports the 1U, full width switches in the following switch series and the power supply: V1810 Series, E2510 Series, E2520 Series, E2610 Series, E2810 Series, E2910 Series, E3500 Series, and the E620 Power Supply.

This universal rack mounting kit is designed to fit the following racks: HP 10K 10642, HP 10K 10842, Panduit CN, Panduit CS, Wrightline Vantage S2, APC NetShelter 600mm, and APC NetShelter 800mm. It may well fit many other brands and models too.

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

**HP 2530 8-port Switch Power Adapter Shelf (J9820A)**

**Physical characteristics**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>6.75(w) x 5.25(d) x 1.75(h) in (17.15 x 13.34 x 4.45 cm) (1U height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>0.6 lb (0.27 kg)</td>
</tr>
</tbody>
</table>

**Notes**
The HP 2530 8-Port Switch Power Adapter Shelf is an accessory for the HP 2530 8-port switches. The shelf mounts on the back of the switch providing a place to hold the external power adapter.

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

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