

### Overview

### Aruba 2530 Switch Series



### Models

|                                      |        |
|--------------------------------------|--------|
| Aruba 2530 48G PoE+ Switch           | J9772A |
| Aruba 2530 24G PoE+ Switch           | J9773A |
| Aruba 2530 8G PoE+ Switch            | J9774A |
| Aruba 2530 48 PoE+ Switch            | J9778A |
| Aruba 2530 24 PoE+ Switch            | J9779A |
| Aruba 2530 8 PoE+ Switch             | J9780A |
| Aruba 2530 48G Switch                | J9775A |
| Aruba 2530 24G Switch                | J9776A |
| Aruba 2530 8G Switch                 | J9777A |
| Aruba 2530 48 Switch                 | J9781A |
| Aruba 2530 24 Switch                 | J9782A |
| Aruba 2530 8 Switch                  | J9783A |
| Aruba 2530 8 PoE+ Internal PS Switch | JL070A |

### Key features

- Cost-effective, reliable and secure Aruba Layer 2 switch series.
- ACLs, EEE, traffic prioritization and models with 10 Gigabit uplinks.
- 8-, 24-, and 48-port Gigabit or Fast Ethernet models
- PoE+ models for voice, video and wireless.

## Overview

- Security and network management with Aruba ClearPass Policy Manager, AirWave and cloud-based Central.

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## Introduction

The Aruba 2530 Switch Series provides security, reliability, and ease of use for enterprises, branch offices, and SMBs. This series of fully managed switches delivers full Layer 2 capabilities with enhanced access security, ACLs, traffic prioritization, sFlow, and IPv6 host support. Right size deployment is simple with choice of 8-, 24-, and 48-port models available with Gigabit or Fast Ethernet ports and optional PoE+. The 2530 delivers power savings with fanless models, Energy Efficient Ethernet, and ability to disable LEDs and enable port low power mode.

The Aruba 2530 Switch Series is easy to use and deploy, and delivers consistent wired/wireless user experience with unified management tools such as Aruba ClearPass Policy Manager, Aruba AirWave and cloud-based Aruba Central.

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

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## Features and Benefits

### Unified Wired and Wireless

- **ClearPass Policy Manager support**  
unified wired and wireless policies using Aruba ClearPass Policy Manager
- **Switch auto-configuration**  
automatically configures switch for different settings such as VLAN, CoS, PoE max power, and PoE priority when an Aruba access point is detected
- **User role**  
defines a set of switch-based policies in areas such as security, authentication, and QoS. A user role can be assigned to a group of users or devices, using local switch configuration (YA version software only).

### 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, and uses weighted deficit round robin (WDRR) or strict priority
- **Simplified QoS configuration**
  - **Port-based**  
prioritizes traffic by specifying a port and priority level
  - **VLAN-based**  
prioritizes traffic by specifying a VLAN and priority level
- **Class of Service (CoS)**  
sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ
- **Rate limiting**  
establishes per-port ingress-enforced maximums for all ingressed traffic or for broadcast, multicast, or unknown destination traffic
- **Layer 4 prioritization**  
enables prioritization based on TCP/UDP port numbers
- **Flow control**  
helps deliver reliable communication during full-duplex operation

## Overview

### Management

- **Aruba Central support—Cloud-based management platform**  
complies with RFC 7030 for encryption key enrollment
- **Zero-Touch ProVisioning (ZTP)**  
uses settings in DHCP to enable ZTP with Aruba AirWave
- **Choice of management interfaces**
  - **HTML-based easy-to-use Web GUI**  
allows configuration of the switch from any Web browser
  - **Robust CLI**  
provides advanced configuration and diagnostics
  - **Simple network management protocol (SNMPv1/v2c/v3)**  
allows the switch to be managed with a variety of third-party network management applications
- **Flexible management with same hardware**  
supports both cloud-based Central and on-premise AirWave with the same hardware ensuring change management platform without ripping and replacing switching infrastructure
- **Virtual stacking**  
provides single IP address management for up to 16 switches
- **sFlow (RFC 3176)**  
delivers wire-speed traffic accounting and monitoring, configured by SNMP and CLI with three terminal encrypted receivers
- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP)**  
automates device discovery protocol for easy mapping by network management applications
- **Logging**  
provides local and remote logging of events via SNMP (v2c and v3) and syslog; provides log throttling and log filtering to reduce the number of log events generated
- **Port mirroring**  
allows traffic to be mirrored on any port or a network analyzer to assist with diagnostics or detecting network attacks
- **Remote monitoring (RMON)**  
provides advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **Find, fix, and inform**  
finds and fixes common network problems automatically, and then informs the administrator
- **Friendly port names**  
allows assignment of descriptive names to ports
- **Dual flash images**  
provides independent primary and secondary operating system files for backup while upgrading
- **Multiple configuration files**  
are easily stored with a flash image
- **Front-panel LEDs**
  - **Locator LEDs**  
allows users to set the locator LED on a specific switch to turn on, blink, or turn off; and simplifies troubleshooting by making it easy to locate a particular switch within a rack of similar switches
  - **Per-port LEDs**  
provides an at-a-glance view of the status, activity, speed, and full-duplex operation
  - **Power and fault LEDs**  
display issues, if any
- **Download Software via DHCP**  
adds the option to specify the location of switch software via DHCP

## Overview

### Connectivity

- **IPv6**
  - **IPv6 host**  
allows the switch to be deployed and managed at the edge of an IPv6 network
  - **Dual stack (IPv4/IPv6)**  
supports connectivity for both protocols; provides a transition mechanism from IPv4 to IPv6
  - **MLD snooping**  
forwards IPv6 multicast traffic to appropriate interface; prevents IPv6 multicast traffic from flooding the network
  - **IPv6 ACL/QoS**  
supports ACL & QoS for IPv6 network traffic on Gigabit & 48 port 10/100 models
  - **Security**  
RA Guard, DHCPv6 Protection, Dynamic IPv6 Lockdown (YA only)
- **IEEE 802.3at Power over Ethernet (PoE+)**  
provides up to 30 W per port that allows support of the latest PoE+ capable devices such as IP phones, wireless access points, and security cameras, as well as any IEEE 802.3af compliant end device; eliminates the cost of additional electrical cabling and circuits that would otherwise be necessary in IP phone and WLAN deployments
- **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
- **SFP slots**  
provides fiber connectivity such as Gigabit-SX, -LX, -LH, and -BX with four SFP slots on all 24- and 48-port Gigabit Ethernet models. Fast Ethernet 24- and 48-port models have two SFP slots and two RJ-45 Gigabit uplinks; 8-port models have two dual-personality ports supporting either SFP or RJ-45 Gigabit uplinks
- **Dual-personality (RJ-45 or USB micro-B) serial console port**  
gives easy access to switch CLI with front-of-switch location and the flexibility of using either an RJ-45 or USB micro-B serial console port

### Layer 2 switching

- **VLANs**  
provides support for 512 VLANs and 4,094 VLAN IDs
- **Jumbo packet support**  
supports up to 9,220-byte frame size to improve the performance of large data transfers; 8- and 24-port Fast Ethernet models automatically support up to 2,000-byte frames with no configuration needed
- **16K MAC address table**  
provides access to many Layer 2 devices
- **GARP VLAN Registration Protocol**  
allows automatic learning and dynamic assignment of VLANs
- **Rapid Per-VLAN Spanning Tree (RPVST+)**  
allows each VLAN to build a separate spanning tree to improve link bandwidth usage; is compatible with PVST+

### Security

- **ACLs**  
accommodates IPv4/IPv6 port and VLAN-based ACLs (IPv6 ACL is supported only on Gigabit Ethernet and 48-port models.)
- **Source-port filtering**  
allows only specified ports to communicate with each other
- **RADIUS/TACACS+**  
eases switch management security administration by using a password authentication server
- **Secure Sockets Layer (SSL)**  
encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch

## Overview

- **Port security**  
allows access only to specified MAC addresses, which can be learned or specified by the administrator
- **MAC address lockout**  
prevents particular configured MAC addresses from connecting to the network
- **Multiple user authentication methods**
  - **IEEE 802.1X**  
uses an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server to authenticate in accordance with industry standards
  - **Web-based authentication**  
provides a browser-based environment, similar to IEEE 802.1X, to authenticate clients that do not support the IEEE 802.1X supplicant
  - **MAC-based authentication**  
authenticates the client with the RADIUS server based on the client's MAC address
- **Secure shell (SSH) v2**  
encrypts all transmitted data for 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 filter feature, by allowing specified ports to be isolated from all other ports on the switch; the protected port or ports can communicate only with the uplink or shared resources
- **Authentication flexibility**
  - **Multiple IEEE 802.1X users per port**  
provides authentication for up to eight IEEE 802.1X users per port; prevents a user from "piggybacking" on another user's IEEE 802.1X authentication
  - **Concurrent IEEE 802.1X and Web or MAC authentication schemes per port**  
allows a switch port to accept any IEEE 802.1X and either Web or MAC authentications
- **Switch management logon security**  
helps secure switch CLI logon by optionally requiring either RADIUS or TACACS+ authentication
- **DHCP protection**  
blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks
- **Dynamic ARP protection:**  
blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data
- **Dynamic IP lockdown**  
works with DHCP protection to block traffic from unauthorized hosts, preventing IP source address spoofing
- **MAC Pinning**  
allows non-chatty legacy devices to stay authenticated by pinning client MAC addresses to the port until the clients logoff or get disconnected

## 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

## Overview

- **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 methods—automatic, IEEE 802.3at dynamic, LLDP-MED fine grain, IEEE 802.3af device class, or user specified—to allocate and manage PoE/PoE+ power for more efficient energy use
- **Voice VLAN**  
uses LLDP-MED to automatically configure a VLAN for IP phones
- **IP multicast (IGMP)**  
prevents flooding of IP multicast traffic
- **LLDP-CDP compatibility**  
receives and recognizes CDP packets from Cisco's IP phones for seamless interoperation
- **Local MAC Authentication**  
assigns attributes such as VLAN and QoS using locally configured profile that can be a list of MAC prefixes

## Resiliency and high availability

- **Port trunking and link aggregation**
  - **Trunking**  
supports up to eight links per trunk to increase bandwidth and create redundant connections; and supports L2, L3, and L4 trunk load-balancing algorithm (L4 trunk load balancing is supported only on Gigabit Ethernet and 48-port models.)
  - **IEEE 802.3ad Link Aggregation Control Protocol (LACP)**  
eases configuration of trunks through automatic configuration
- **IEEE 802.1s Multiple Spanning Tree**  
provides high link availability in multiple VLAN environments by allowing multiple spanning trees; provides legacy support for IEEE 802.1d and IEEE 802.1w
- **SmartLink**  
provides easy-to-configure link redundancy of active and standby links

## Product Architecture

- **Energy-efficient design**
  - **IEEE 802.3az**  
reduces power consumption during periods of low data activity on Gigabit Ethernet switches
  - **Port low power mode**  
enables the port to automatically go into low-power mode to conserve energy when no link is detected
  - **Fanless and variable-speed fans**  
decreases power consumption in fanless (all 8-port, 2530-24, and 2530-48 PoE+ switches) as well as variable-speed fan switches
  - **Port LEDs**  
conserves energy by optionally turning off port link and activity LEDs
- **Switch on a chip**  
provides a highly integrated, high-performance switch design with a non-blocking architecture

## Flexibility

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

## Overview

- **Quiet operation**  
lowers noise, making it suitable for deployments in acoustically sensitive environments such as conference rooms and office spaces
- **Compact size**  
reduces space requirements (refer to the product specifications for the exact dimensions)

## Warranty and support

- **Limited Lifetime Warranty**  
see <http://www.hpe.com/networking/warrantysummary> for warranty and support information included with your product purchase.
- **Software releases**  
to find software for your product, refer to <http://www.hpe.com/networking/support>; for details on the software releases available with your product purchase, refer to <http://www.hpe.com/networking/warrantysummary>

## Configuration

**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.**

### Aruba 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

J9783A

See Configuration

**NOTE: 1, 3**

### No Power Cord

- No Localized Power Cord Selected

J9783A#AC3

### Aruba 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

J9780A

See Configuration

**NOTE: 1, 3**

### No Power Cord

- No Localized Power Cord Selected

J9780A#AC3

### Aruba 2530 8 PoE+ Internal PS 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

JL070A

See Configuration

**NOTE: 1, 2**

### PDU Cable NA/MEX/TW/JP

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

JL070A#B2B

### PDU Cable ROW

- C15 PDU Jumper Cord (ROW)

JL070A#B2C

### Aruba 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

J9777A

See Configuration

**NOTE: 1, 3**



## Configuration

|  |  |
|--|--|
| No Power Cord  | J9777A#AC3                             |
| <ul style="list-style-type: none"><li>No Localized Power Cord Selected</li></ul>   |  |
| Aruba 2530 8G PoE+ Switch  | J9774A                                 |
| <ul style="list-style-type: none"><li>8 RJ-45 autosensing 10/100/1000 PoE+ ports</li><li>2 dual-personality ports; RJ-45 10/100/1000 or SFP slot (Min 0 // Max 2 SFP)</li><li>Power Supply Included</li><li>1U - Height</li></ul>                      | See Configuration<br><b>NOTE: 1, 3</b> |
| No Power Cord  | J9774A#AC3                             |
| <ul style="list-style-type: none"><li>No Localized Power Cord Selected</li></ul>   |  |
| Aruba 2530 24 Switch   | J9782A                                 |
| <ul style="list-style-type: none"><li>24 RJ-45 autosensing 10/100 ports</li><li>2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)</li><li>2 RJ-45 autosensing 10/100/1000 ports</li><li>Power Supply Included</li><li>1U - Height</li></ul>      | See Configuration<br><b>NOTE: 1, 2</b> |
| PDU CABLE NA/MEX/TW/JP   | J9782A#B2B                             |
| <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>   |  |
| PDU CABLE ROW  | J9782A#B2C                             |
| <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>  |  |
| No Power Cord  | J9782A#AC3                             |
| <ul style="list-style-type: none"><li>No Localized Power Cord Selected</li></ul>   |  |
| Aruba 2530 24 PoE+ Switch  | J9779A                                 |
| <ul style="list-style-type: none"><li>24 RJ-45 autosensing 10/100 PoE+ ports</li><li>2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)</li><li>2 RJ-45 autosensing 10/100/1000 ports</li><li>Power Supply Included</li><li>1U - Height</li></ul> | See Configuration<br><b>NOTE: 1, 2</b> |
| PDU CABLE NA/MEX/TW/JP   | J9779A#B2B                             |
| <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>   |  |
| PDU CABLE ROW  | J9779A#B2C                             |

## Configuration

|   |  |
|---|--|
| <ul style="list-style-type: none"><li>• C15 PDU Jumper Cord (ROW)</li></ul>   |  |
| No Power Cord   | J9779A#AC3                             |
| <ul style="list-style-type: none"><li>• No Localized Power Cord Selected</li></ul>  |  |
| Aruba 2530 24G Switch   | J9776A                                 |
| <ul style="list-style-type: none"><li>• 24 RJ-45 autosensing 10/100/1000 ports</li><li>• 4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)</li><li>• Power Supply Included</li><li>• 1U - Height</li></ul>  | See Configuration<br><b>NOTE: 1, 2</b> |
| PDU CABLE NA/MEX/TW/JP  | J9776A#B2B                             |
| <ul style="list-style-type: none"><li>• C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>  |  |
| PDU CABLE ROW   | J9776A#B2C                             |
| <ul style="list-style-type: none"><li>• C15 PDU Jumper Cord (ROW)</li></ul>   |  |
| Aruba 2530 24G PoE+ Switch  | J9773A                                 |
| <ul style="list-style-type: none"><li>• 24 RJ-45 autosensing 10/100/1000 PoE+ ports</li><li>• 4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)</li><li>• Power Supply Included</li><li>• 1U - Height</li></ul>                                       | See Configuration<br><b>NOTE: 1, 2</b> |
| PDU CABLE NA/MEX/TW/JP  | J9773A#B2B                             |
| <ul style="list-style-type: none"><li>• C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>  |  |
| PDU CABLE ROW   | J9773A#B2C                             |
| <ul style="list-style-type: none"><li>• C15 PDU Jumper Cord (ROW)</li></ul>   |  |
| Aruba 2530 48 Switch  | J9781A                                 |
| <ul style="list-style-type: none"><li>• 48 RJ-45 autosensing 10/100 ports</li><li>• 2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)</li><li>• 2 RJ-45 autosensing 10/100/1000 ports</li><li>• Power Supply Included</li><li>• 1U - Height</li></ul> | See Configuration<br><b>NOTE: 1, 2</b> |
| PDU CABLE NA/MEX/TW/JP  | J9781A#B2B                             |
| <ul style="list-style-type: none"><li>• C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>  |  |

## Configuration

|  |  |
|--|--|
| PDU CABLE ROW  | J9781A#B2C                             |
| <ul style="list-style-type: none"><li>• C15 PDU Jumper Cord (ROW)</li></ul>  |  |
| No Power Cord  | J9781A#AC3                             |
| <ul style="list-style-type: none"><li>• No Localized Power Cord Selected</li></ul>   |  |
| Aruba 2530 48 PoE+ Switch  | J9778A                                 |
| <ul style="list-style-type: none"><li>• 48 RJ-45 autosensing 10/100 PoE+ ports</li><li>• 2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)</li><li>• 2 RJ-45 autosensing 10/100/1000 ports</li><li>• Power Supply Included</li><li>• 1U - Height</li></ul> | See Configuration<br><b>NOTE: 1, 2</b> |
| PDU CABLE NA/MEX/TW/JP   | J9778A#B2B                             |
| <ul style="list-style-type: none"><li>• C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>   |  |
| PDU CABLE ROW  | J9778A#B2C                             |
| <ul style="list-style-type: none"><li>• C15 PDU Jumper Cord (ROW)</li></ul>  |  |
| No Power Cord  | J9778A#AC3                             |
| <ul style="list-style-type: none"><li>• No Localized Power Cord Selected</li></ul>   |  |
| Aruba 2530 48G Switch  | J9775A                                 |
| <ul style="list-style-type: none"><li>• 48 RJ-45 autosensing 10/100/1000 ports</li><li>• 4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)</li><li>• Power Supply Included</li><li>• 1U - Height</li></ul>   | See Configuration<br><b>NOTE: 1, 2</b> |
| PDU CABLE NA/MEX/TW/JP   | J9775A#B2B                             |
| <ul style="list-style-type: none"><li>• C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>   |  |
| PDU CABLE ROW  | J9775A#B2C                             |
| <ul style="list-style-type: none"><li>• C15 PDU Jumper Cord (ROW)</li></ul>  |  |
| Aruba 2530 48G PoE+ Switch   | J9772A                                 |
| <ul style="list-style-type: none"><li>• 48 RJ-45 autosensing 10/100/1000 PoE+ ports</li><li>• 4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)</li><li>• Power Supply Included</li></ul>  | See Configuration<br><b>NOTE: 1, 2</b> |

## Configuration

- 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:

|   |        |
|---|--------|
| Aruba 1G SFP LC SX 500m OM2 MMF Transceiver | J4858D |
| Aruba 1G SFP LC LX 10km SMF Transceiver     | J4859D |
| Aruba 1G SFP LC LH 70km SMF Transceiver     | J4860D |
| Aruba 1G SFP RJ45 T 100m Cat5e Transceiver  | J8177D |
| Aruba 100M SFP LC FX 2km MMF Transceiver    | J9054D |

#### 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

Aruba 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

J9782A

See Configuration  
**NOTE: 1, 2, 3, 4**

PDU CABLE NA/MEX/TW/JP

J9782A#B2B

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

## Configuration

|  |  |
|--|--|
| PDU CABLE ROW <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>  | J9782A#B2C   |
| No Power Cord <ul style="list-style-type: none"><li>No Localized Power Cord Selected</li></ul>   | J9782A#AC3   |
| Aruba 2530 24 PoE+ Switch <ul style="list-style-type: none"><li>24 RJ-45 autosensing 10/100 PoE+ ports</li><li>2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)</li><li>2 RJ-45 autosensing 10/100/1000 ports</li><li>Power Supply Included</li><li>1U - Height</li></ul> | J9779A<br>See Configuration<br><b>NOTE: 1, 2, 3, 4</b> |
| PDU CABLE NA/MEX/TW/JP <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>  | J9779A#B2B   |
| PDU CABLE ROW <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>  | J9779A#B2C   |
| No Power Cord <ul style="list-style-type: none"><li>No Localized Power Cord Selected</li></ul>   | J9779A#AC3   |
| Aruba 2530 24G Switch <ul style="list-style-type: none"><li>24 RJ-45 autosensing 10/100/1000 ports</li><li>4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)</li><li>Power Supply Included</li><li>1U - Height</li></ul>   | J9776A<br>See Configuration<br><b>NOTE: 1, 2, 3, 4</b> |
| PDU CABLE NA/MEX/TW/JP <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>  | J9776A#B2B   |
| PDU CABLE ROW <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>  | J9776A#B2C   |
| Aruba 2530 24G PoE+ Switch <ul style="list-style-type: none"><li>24 RJ-45 autosensing 10/100/1000 PoE+ ports</li><li>4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)</li><li>Power Supply Included</li></ul>   | J9773A<br>See Configuration<br><b>NOTE: 1, 2, 3, 4</b> |

## Configuration

|  |  |
|--|--|
| <ul style="list-style-type: none"><li>1U - Height</li></ul>  |  |
| PDU CABLE NA/MEX/TW/JP   | J9773A#B2B                                   |
| <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>   |  |
| PDU CABLE ROW  | J9773A#B2C                                   |
| <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>  |  |
| Aruba 2530 48 Switch   | J9781A                                       |
| <ul style="list-style-type: none"><li>48 RJ-45 autosensing 10/100 ports</li><li>2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)</li><li>2 RJ-45 autosensing 10/100/1000 ports</li><li>Power Supply Included</li><li>1U - Height</li></ul>      | See Configuration<br><b>NOTE: 1, 2, 3, 4</b> |
| PDU CABLE NA/MEX/TW/JP   | J9781A#B2B                                   |
| <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>   |  |
| PDU CABLE ROW  | J9781A#B2C                                   |
| <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>  |  |
| No Power Cord  | J9781A#AC3                                   |
| <ul style="list-style-type: none"><li>No Localized Power Cord Selected</li></ul>   |  |
| Aruba 2530 48 PoE+ Switch  | J9778A                                       |
| <ul style="list-style-type: none"><li>48 RJ-45 autosensing 10/100 PoE+ ports</li><li>2 fixed Gigabit Ethernet SFP ports (Min 0 // Max 2 SFP)</li><li>2 RJ-45 autosensing 10/100/1000 ports</li><li>Power Supply Included</li><li>1U - Height</li></ul> | See Configuration<br><b>NOTE: 1, 2, 3, 4</b> |
| PDU CABLE NA/MEX/TW/JP   | J9778A#B2B                                   |
| <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li></ul>   |  |
| PDU CABLE ROW  | J9778A#B2C                                   |
| <ul style="list-style-type: none"><li>C15 PDU Jumper Cord (ROW)</li></ul>  |  |

## Configuration

|  |  |
|--|--|
| No Power Cord  | J9778A#AC3                                   |
| <ul style="list-style-type: none"> <li>No Localized Power Cord Selected</li> </ul>   |  |
| Aruba 2530 48G Switch  | J9775A                                       |
| <ul style="list-style-type: none"> <li>48 RJ-45 autosensing 10/100/1000 ports</li> <li>4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)</li> <li>Power Supply Included</li> <li>1U - Height</li> </ul>      | See Configuration<br><b>NOTE: 1, 2, 3, 4</b> |
| PDU CABLE NA/MEX/TW/JP   | J9775A#B2B                                   |
| <ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>   |  |
| PDU CABLE ROW  | J9775A#B2C                                   |
| <ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (ROW)</li> </ul>  |  |
| Aruba 2530 48G PoE+ Switch   | J9772A                                       |
| <ul style="list-style-type: none"> <li>48 RJ-45 autosensing 10/100/1000 PoE+ ports</li> <li>4 fixed Gigabit Ethernet SFP ports (Min 0 // Max 4 SFP)</li> <li>Power Supply Included</li> <li>1U - Height</li> </ul> | See Configuration<br><b>NOTE: 1, 2, 3, 4</b> |
| PDU CABLE NA/MEX/TW/JP   | J9772A#B2B                                   |
| <ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (NA/MEX/TW/JP)</li> </ul>   |  |
| PDU CABLE ROW  | J9772A#B2C                                   |
| <ul style="list-style-type: none"> <li>C15 PDU Jumper Cord (ROW)</li> </ul>  |  |

### Configuration Rules:

#### NOTE 1

The following Transceivers install into this switch:

|   |        |
|---|--------|
| Aruba 1G SFP LC SX 500m OM2 MMF Transceiver | J4858D |
| Aruba 1G SFP LC LX 10km SMF Transceiver     | J4859D |
| Aruba 1G SFP LC LH 70km SMF Transceiver     | J4860D |
| Aruba 1G SFP RJ45 T 100m Cat5e Transceiver  | J8177D |
| Aruba 100M SFP LC FX 2km MMF Transceiver    | J9054D |

#### NOTE 2

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

## Configuration

- 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 4** If HPE CTO Switch Chassis is selected for Rack Level Integration, Then the CTO Switch Chassis needs to integrate (with #OD1) to the HPE 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.**

## Transceivers

### SFP Transceivers

|   |        |
|---|--------|
| Aruba 100M SFP LC FX 2km MMF Transceiver    | J9054D |
| Aruba 1G SFP LC SX 500m OM2 MMF Transceiver | J4858D |
| Aruba 1G SFP LC LX 10km SMF Transceiver     | J4859D |
| Aruba 1G SFP LC LH 70km SMF Transceiver     | J4860D |
| Aruba 1G SFP RJ45 T 100m Cat5e Transceiver  | J8177D |

## Cables

### Console Cables

(std 0 // max 99) User Selection (min 0 // max 99) per switch

|                                      |        |
|--------------------------------------|--------|
| Aruba X2C2 RJ45 to DB9 Console Cable | JL448A |
|--------------------------------------|--------|

## Switch Enclosure Options

### Cable Guard



## Configuration

Aruba X510 1U Cable Guard

J9700A  
See Configuration  
**NOTE: 1**

### Configuration Rules:

**NOTE 1** This Cable Guard is supported only on the J9783A, J9780A, JL070A, J9777A and J9774A.

### Option Mounting Kit

Aruba 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

HPE X410 1U Universal 4-post Rackmount Kit

J9583A  
See Configuration  
**NOTE: 1**

### Configuration Rules:

**NOTE 1** If this Mounting Kit is order with #0D1 then it integrates to the HPE Network Rack. (not the switch)

## Technical Specifications

### Aruba 2530 48G PoE+ Switch (J9772A)

|                                   |   |  |
|-----------------------------------|---|--|
| <b>I/O ports and slots</b>        | 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<br>4 fixed Gigabit Ethernet SFP ports |  |
| <b>Additional ports and slots</b> | 1 dual-personality (RJ-45 or USB micro-B) serial console port   |  |
| <b>Physical characteristics</b>   | <b>Dimensions</b>   | 17.44(w) x 13.00(d) x 1.75(h) in (44.3 x 32.26 x 4.45 cm) (1U height)  |
|                                   | <b>Weight</b>   | 10.4 lb (4.72 kg)  |
| <b>Memory and processor</b>       | <b>Processor</b>  | ARM9E @ 800 MHz, 128 MB flash; Packet buffer size: 3 MB dynamically allocated, 256 MB DDR3 DIMM  |
| <b>Mounting and enclosure</b>     | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); Horizontal surface mounting; Wall mounting   |  |
| <b>Performance</b>                | <b>IPv6 Ready Certified</b>   |  |
|                                   | <b>100 Mb Latency</b>   | < 7.4 $\mu$ s (LIFO 64-byte packets)   |
|                                   | <b>1000 Mb Latency</b>  | < 2.3 $\mu$ s (LIFO 64-byte packets)   |
|                                   | <b>Throughput</b>   | up to 77.3 Mpps (64-byte packets)  |
|                                   | <b>Switching capacity</b>   | 104 Gbps   |
|                                   | <b>MAC address table size</b>   | 16000 entries  |
| <b>Environment</b>                | <b>Operating temperature</b>  | 32°F to 113°F (0°C to 45°C)  |
|                                   | <b>Operating relative humidity</b>  | 15% to 95% @ 104°F (40°C), noncondensing   |
|                                   | <b>Non-operating/<br/>Storage temperature</b>   | -40°F to 158°F (-40°C to 70°C)   |
|                                   | <b>Non-operating/Storage<br/>relative humidity</b>  | 15% to 90% @ 149°F (65°C), noncondensing   |
|                                   | <b>Altitude</b>   | up to 10,000 ft (3 km)   |
|                                   | <b>Acoustic</b>   | Power: 43.6 dB, Pressure: 33.6 dB  |
| <b>Electrical characteristics</b> | <b>Frequency</b>  | 50/60 Hz   |
|                                   | <b>Maximum heat dissipation</b>   | 236 BTU/hr (248.98 kJ/hr), (switch only: 236 BTU/hr; combined switch + max. PoE devices: 1624 BTU/hr)  |
|                                   | <b>Voltage</b>  | 100 - 127 / 200 - 240 VAC, rated   |
|                                   | <b>Current</b>  | 5.8/2.9 A  |
|                                   | <b>Maximum power rating</b>   | 476 W  |
|                                   | <b>Idle power</b>   | 40.1 W   |
|                                   | <b>PoE power</b>  | 382 W  |
|                                   | <b>NOTES</b>  | Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.<br>PoE power is the total power budget available to all PoE ports. |
| <b>Safety</b>                     | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1   |  |
| <b>Emissions</b>                  | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A  |  |

## Technical Specifications

|                   |  |                             |
|-------------------|--|-----------------------------|
| <b>Immunity</b>   | <b>Generic</b>   | EN 55024, CISPR 24          |
|                   | <b>EN</b>  | EN 55024, CISPR 24          |
|                   | <b>ESD</b>   | IEC 61000-4-2               |
|                   | <b>Radiated</b>  | IEC 61000-4-3               |
|                   | <b>EFT/Burst</b>   | IEC 61000-4-4               |
|                   | <b>Surge</b>   | IEC 61000-4-5               |
|                   | <b>Conducted</b>   | IEC 61000-4-6               |
|                   | <b>Power frequency magnetic field</b>  | IEC 61000-4-8               |
|                   | <b>Voltage dips and interruptions</b>  | IEC 61000-4-11              |
|                   | <b>Harmonics</b>   | EN 61000-3-2, IEC 61000-3-2 |
|                   | <b>Flicker</b>   | EN 61000-3-3, IEC 61000-3-3 |
| <b>Management</b> | 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  |                             |
| <b>NOTES</b>      | 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.  |                             |
| <b>Services</b>   | Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office. |                             |

### Aruba 2530 24G PoE+ Switch (J9773A)

|                                   |   |   |
|-----------------------------------|---|---|
| <b>I/O ports and slots</b>        | 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<br>4 fixed Gigabit Ethernet SFP ports |   |
| <b>Additional ports and slots</b> | 1 dual-personality (RJ-45 or USB micro-B) serial console port   |   |
| <b>Physical characteristics</b>   | <b>Dimensions</b>   | 17.44(w) x 13.00(d) x 1.75(h) in (44.3 x 33.02 x 4.45 cm) (1U height)                             |
|                                   | <b>Weight</b>   | 8.7 lb (3.95 kg)  |
| <b>Memory and processor</b>       | <b>Processor</b>  | ARM9E @ 800 MHz, 128 MB flash; Packet buffer size: 1.5 MB dynamically allocated, 256 MB DDR3 DIMM |
| <b>Mounting and enclosure</b>     | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); Horizontal surface mounting; Wall mounting   |   |
| <b>Performance</b>                | <b>IPv6 Ready Certified</b>   |   |
|                                   | <b>100 Mb Latency</b>   | < 7.4 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>1000 Mb Latency</b>  | < 2.3 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>Throughput</b>   | up to 41.6 Mpps (64-byte packets)   |
|                                   | <b>Switching capacity</b>   | 56 Gbps   |
|                                   | <b>MAC address table size</b>   | 16000 entries   |
| <b>Environment</b>                | <b>Operating temperature</b>  | 32°F to 113°F (0°C to 45°C)   |
|                                   | <b>Operating relative humidity</b>  | 15% to 95% @ 104°F (40°C), noncondensing  |
|                                   | <b>Non-operating/Storage temperature</b>  | -40°F to 158°F (-40°C to 70°C)  |

## Technical Specifications

|                                   |  |   |  |
|-----------------------------------|--|---|--|
|                                   | <b>Non-operating/Storage relative humidity</b>   | 15% to 90% @ 149°F (65°C), noncondensing  |  |
|                                   | <b>Altitude</b>  | up to 10,000 ft (3 km)  |  |
|                                   | <b>Acoustic</b>  | Power: 43.9 dB, Pressure: 39.6 dB   |  |
| <b>Electrical characteristics</b> | <b>Frequency</b>   | 50/60 Hz  |  |
|                                   | <b>Maximum heat dissipation</b>  | 135 BTU/hr (142.42 kJ/hr), (switch only: 135 BTU/hr; combined switch + max. PoE devices: 843 BTU/hr)  |  |
|                                   | <b>Voltage</b>   | 100 - 127 / 200 - 240 VAC, rated  |  |
|                                   | <b>Current</b>   | 3.2/1.6 A   |  |
|                                   | <b>Maximum power rating</b>  | 247 W   |  |
|                                   | <b>Idle power</b>  | 25.2 W  |  |
|                                   | <b>PoE power</b>   | 195 W   |  |
|                                   | <b>NOTES</b>   | Idle power is the actual power consumption of the device with no ports connected.<br>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.<br>PoE power is the total power budget available to all PoE ports. |  |
|                                   | <b>Safety</b>  | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1   |  |
|                                   | <b>Emissions</b>   | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A  |  |
| <b>Immunity</b>                   | <b>Generic</b>   | EN 55024, CISPR 24  |  |
|                                   | <b>EN</b>  | EN 55024, CISPR 24  |  |
|                                   | <b>ESD</b>   | IEC 61000-4-2   |  |
|                                   | <b>Radiated</b>  | IEC 61000-4-3   |  |
|                                   | <b>EFT/Burst</b>   | IEC 61000-4-4   |  |
|                                   | <b>Surge</b>   | IEC 61000-4-5   |  |
|                                   | <b>Conducted</b>   | IEC 61000-4-6   |  |
|                                   | <b>Power frequency magnetic field</b>  | IEC 61000-4-8   |  |
|                                   | <b>Voltage dips and interruptions</b>  | IEC 61000-4-11  |  |
|                                   | <b>Harmonics</b>   | EN 61000-3-2, IEC 61000-3-2   |  |
| <b>Flicker</b>                    | EN 61000-3-3, IEC 61000-3-3  |   |  |
| <b>Management</b>                 | 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  |   |  |
| <b>NOTES</b>                      | 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.  |   |  |
| <b>Services</b>                   | Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office. |   |  |

## Technical Specifications

|                                   |  |   |
|-----------------------------------|--|---|
| <b>I/O ports and slots</b>        | 8 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only |   |
|                                   | 2 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-Tx; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or as a SFP slot (for use with SFP transceivers)       |   |
| <b>Additional ports and slots</b> | 1 dual-personality (RJ-45 or USB micro-B) serial console port  |   |
| <b>Physical characteristics</b>   | <b>Dimensions</b>  | 10.00(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height)  |
|                                   | <b>Weight</b>  | 2.2 lb (1 kg)   |
| <b>Memory and processor</b>       | <b>Processor</b>   | ARM9E @ 800 MHz, 128 MB flash; Packet buffer size: 1.5 MB dynamically allocated, 256 MB DDR3 DIMM   |
| <b>Mounting and enclosure</b>     | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting  |   |
| <b>Performance</b>                | <b>IPv6 Ready Certified</b>  |   |
|                                   | <b>100 Mb Latency</b>  | < 7.4 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>1000 Mb Latency</b>   | < 2.6 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>Throughput</b>  | up to 14.8 Mpps (64-byte packets)   |
|                                   | <b>Switching capacity</b>  | 20 Gbps   |
|                                   | <b>MAC address table size</b>  | 16000 entries   |
| <b>Environment</b>                | <b>Operating temperature</b>   | 32°F to 113°F (0°C to 45°C)   |
|                                   | <b>Operating relative humidity</b>   | 15% to 95% @ 104°F (40°C), non-condensing   |
|                                   | <b>Non-operating/Storage temperature</b>   | -40°F to 158°F (-40°C to 70°C)  |
|                                   | <b>Non-operating/Storage relative humidity</b>   | 15% to 90% @ 149°F (65°C), noncondensing  |
|                                   | <b>Altitude</b>  | up to 10,000 ft (3 km)  |
|                                   | <b>Acoustic</b>  | Power: 0 dB, Pressure: 0 dB   |
| <b>Electrical characteristics</b> | <b>Frequency</b>   | 50/60 Hz  |
|                                   | <b>Maximum heat dissipation</b>  | 65 BTU/hr (68.58 kJ/hr), (switch only: 65 BTU/hr; combined switch + max. PoE devices: 293 BTU/hr)   |
|                                   | <b>Voltage</b>   | 100 - 127 / 200 - 240 VAC, rated  |
|                                   | <b>Current</b>   | 1.4 A   |
|                                   | <b>Maximum power rating</b>  | 86 W  |
|                                   | <b>Idle power</b>  | 13.4 W  |
|                                   | <b>PoE power</b>   | 67 W  |
|                                   | <b>NOTES</b>   | Idle power is the actual power consumption of the device with no ports connected.<br>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.<br>PoE power is the total power budget available to all PoE ports. |
| <b>Safety</b>                     | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1  |   |
| <b>Emissions</b>                  | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A   |   |
| <b>Immunity</b>                   | <b>Generic</b>   | EN 55024, CISPR 24  |

## Technical Specifications

|                   |  |                             |
|-------------------|--|-----------------------------|
|                   | <b>EN</b>  | EN 55024, CISPR 24          |
|                   | <b>ESD</b>   | IEC 61000-4-2               |
|                   | <b>Radiated</b>  | IEC 61000-4-3               |
|                   | <b>EFT/Burst</b>   | IEC 61000-4-4               |
|                   | <b>Surge</b>   | IEC 61000-4-5               |
|                   | <b>Conducted</b>   | IEC 61000-4-6               |
|                   | <b>Power frequency magnetic field</b>  | IEC 61000-4-8               |
|                   | <b>Voltage dips and interruptions</b>  | IEC 61000-4-11              |
|                   | <b>Harmonics</b>   | EN 61000-3-2, IEC 61000-3-2 |
|                   | <b>Flicker</b>   | EN 61000-3-3, IEC 61000-3-3 |
| <b>Management</b> | 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  |                             |
| <b>NOTES</b>      | 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.  |                             |
| <b>Services</b>   | Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office. |                             |

### Aruba 2530 48 PoE+ Switch (J9778A)

|                                   |  |   |
|-----------------------------------|--|---|
| <b>I/O ports and slots</b>        | 48 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<br>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<br>2 fixed Gigabit Ethernet SFP ports |   |
| <b>Additional ports and slots</b> | 1 dual-personality (RJ-45 or USB micro-B) serial console port  |   |
| <b>Physical characteristics</b>   | <b>Dimensions</b>  | 17.40(w) x 12.70(d) x 1.75(h) in (44.2 x 32.26 x 4.45 cm) (1U height)                           |
|                                   | <b>Weight</b>  | 10.1 lb (4.58 kg)   |
| <b>Memory and processor</b>       | <b>Processor</b>   | ARM9E @ 800 MHz, 128 MB flash; Packet buffer size: 3 MB dynamically allocated, 256 MB DDR3 DIMM |
| <b>Mounting and enclosure</b>     | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); Horizontal surface mounting; Wall mounting  |   |
| <b>Performance</b>                | <b>IPv6 Ready Certified</b>  |   |
|                                   | <b>100 Mb Latency</b>  | < 6.6 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>1000 Mb Latency</b>   | < 2.2 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>Throughput</b>  | up to 13 Mpps (64-byte packets)   |
|                                   | <b>Switching capacity</b>  | 17.6 Gbps   |
|                                   | <b>MAC address table size</b>  | 16000 entries   |
| <b>Environment</b>                | <b>Operating temperature</b>   | 32°F to 113°F (0°C to 45°C)   |
|                                   | <b>Operating relative humidity</b>   | 15% to 95% @ 104°F (40°C), noncondensing  |
|                                   | <b>Non-operating/Storage temperature</b>   | -40°F to 158°F (-40°C to 70°C)  |

## Technical Specifications

|                                   |  |  |
|-----------------------------------|--|--|
|                                   | <b>Non-operating/Storage relative humidity</b>   | 15% to 90% @ 149°F (65°C), noncondensing   |
|                                   | <b>Altitude</b>  | up to 10,000 ft (3 km)   |
|                                   | <b>Acoustic</b>  | Power: 37.9 dB, Pressure: 31.8 dB  |
| <b>Electrical characteristics</b> | <b>Frequency</b>   | 50/60 Hz   |
|                                   | <b>Maximum heat dissipation</b>  | 170 BTU/hr (179.35 kJ/hr), (switch only: 170 BTU/hr; combined switch + max. PoE devices: 1505 BTU/hr)  |
|                                   | <b>Voltage</b>   | 100 - 127 / 200 - 240 VAC, rated   |
|                                   | <b>Current</b>   | 5.2/2.6 A  |
|                                   | <b>Maximum power rating</b>  | 441 W  |
|                                   | <b>Idle power</b>  | 37.5 W   |
|                                   | <b>PoE power</b>   | 382 W  |
|                                   | <b>NOTES</b>   | <p>Idle power is the actual power consumption of the device with no ports connected.</p> <p>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.</p> <p>PoE power is the total power budget available to all PoE ports.</p> |
| <b>Safety</b>                     | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1  |  |
| <b>Emissions</b>                  | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A   |  |
| <b>Immunity</b>                   | <b>Generic</b>   | EN 55024, CISPR 24   |
|                                   | <b>EN</b>  | EN 55024, CISPR 24   |
|                                   | <b>ESD</b>   | IEC 61000-4-2  |
|                                   | <b>Radiated</b>  | IEC 61000-4-3  |
|                                   | <b>EFT/Burst</b>   | IEC 61000-4-4  |
|                                   | <b>Surge</b>   | IEC 61000-4-5  |
|                                   | <b>Conducted</b>   | IEC 61000-4-6  |
|                                   | <b>Power frequency magnetic field</b>  | IEC 61000-4-8  |
|                                   | <b>Voltage dips and interruptions</b>  | IEC 61000-4-11   |
|                                   | <b>Harmonics</b>   | EN 61000-3-2, IEC 61000-3-2  |
| <b>Flicker</b>                    | EN 61000-3-3, IEC 61000-3-3  |  |
| <b>Management</b>                 | 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  |  |
| <b>NOTES</b>                      | 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.  |  |
| <b>Services</b>                   | Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office. |  |

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### Aruba 2530 24 PoE+ Switch (J9779A)

**I/O ports and slots** 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

## Technical Specifications

|                                   |   |
|-----------------------------------|---|
|                                   | 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  |
| <b>Additional ports and slots</b> | 1 dual-personality (RJ-45 or USB micro-B) serial console port   |
| <b>Physical characteristics</b>   | <b>Dimensions</b> 17.40(w) x 12.70(d) x 1.75(h) in (44.2 x 32.26 x 4.45 cm) (1U height)   |
|                                   | <b>Weight</b> 8.4 lb (3.81 kg)  |
| <b>Memory and processor</b>       | <b>Processor</b> ARM9E @ 800 MHz, 128 MB flash; Packet buffer size: 1.5 MB dynamically allocated, 256 MB DDR3 DIMM  |
| <b>Mounting and enclosure</b>     | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); Horizontal surface mounting; Wall mounting   |
| <b>Performance</b>                | <b>IPv6 Ready Certified</b>   |
|                                   | <b>100 Mb Latency</b> < 1.7 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>1000 Mb Latency</b> < 1.1 $\mu$ s (LIFO 64-byte packets)   |
|                                   | <b>Throughput</b> up to 9.5 Mpps (64-byte packets)  |
|                                   | <b>Switching capacity</b> 12.8 Gbps   |
|                                   | <b>MAC address table size</b> 16000 entries   |
| <b>Environment</b>                | <b>Operating temperature</b> 32°F to 113°F (0°C to 45°C)  |
|                                   | <b>Operating relative humidity</b> 15% to 95% @ 104°F (40°C), noncondensing   |
|                                   | <b>Non-operating/Storage temperature</b> -40°F to 158°F (-40°C to 70°C)   |
|                                   | <b>Non-operating/Storage relative humidity</b> 15% to 90% @ 149°F (65°C), noncondensing   |
|                                   | <b>Altitude</b> up to 10,000 ft (3 km)  |
|                                   | <b>Acoustic</b> Power: 40.4 dB, Pressure: 31.7 dB   |
| <b>Electrical characteristics</b> | <b>Frequency</b> 50/60 Hz   |
|                                   | <b>Maximum heat dissipation</b> 99 BTU/hr (104.45 kJ/hr), (switch only: 99 BTU/hr; combined switch + max. PoE devices: 809 BTU/hr)  |
|                                   | <b>Voltage</b> 100 - 127 / 200 - 240 VAC, rated   |
|                                   | <b>Current</b> 2.8/1.4 A  |
|                                   | <b>Maximum power rating</b> 237 W   |
|                                   | <b>Idle power</b> 21.8 W  |
|                                   | <b>PoE power</b> 195 W  |
|                                   | <b>NOTES</b>  |
|                                   | Idle power is the actual power consumption of the device with no ports connected.   |
|                                   | Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. |
|                                   | PoE power is the total power budget available to all PoE ports.   |
| <b>Safety</b>                     | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1   |
| <b>Emissions</b>                  | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A  |
| <b>Immunity</b>                   | <b>Generic</b> EN 55024, CISPR 24   |
|                                   | <b>EN</b> EN 55024, CISPR 24  |
|                                   | <b>ESD</b> IEC 61000-4-2  |
|                                   | <b>Radiated</b> IEC 61000-4-3   |



## Technical Specifications

|                   |  |                             |
|-------------------|--|-----------------------------|
|                   | <b>EFT/Burst</b>   | IEC 61000-4-4               |
|                   | <b>Surge</b>   | IEC 61000-4-5               |
|                   | <b>Conducted</b>   | IEC 61000-4-6               |
|                   | <b>Power frequency magnetic field</b>  | IEC 61000-4-8               |
|                   | <b>Voltage dips and interruptions</b>  | IEC 61000-4-11              |
|                   | <b>Harmonics</b>   | EN 61000-3-2, IEC 61000-3-2 |
|                   | <b>Flicker</b>   | EN 61000-3-3, IEC 61000-3-3 |
| <b>Management</b> | 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  |                             |
| <b>NOTES</b>      | 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.  |                             |
| <b>Services</b>   | Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office. |                             |

### Aruba 2530 8 PoE+ Switch (J9780A)

|                                   |   |   |
|-----------------------------------|---|---|
| <b>I/O ports and slots</b>        | 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<br>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 |   |
| <b>Additional ports and slots</b> | 1 dual-personality (RJ-45 or USB micro-B) serial console port   |   |
| <b>Physical characteristics</b>   | <b>Dimensions</b>   | 10.00(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height)                              |
|                                   | <b>Weight</b>   | 2.0 lb (0.91 kg)  |
| <b>Memory and processor</b>       | <b>Processor</b>  | ARM9E @ 800 MHz, 128 MB flash; Packet buffer size: 1.5 MB dynamically allocated, 256 MB DDR3 DIMM |
| <b>Mounting and enclosure</b>     | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting   |   |
| <b>Performance</b>                | <b>IPv6 Ready Certified</b>   |   |
|                                   | <b>100 Mb Latency</b>   | < 1.3 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>1000 Mb Latency</b>  | < 1.3 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>Throughput</b>   | up to 4.1 Mpps (64-byte packets)  |
|                                   | <b>Switching capacity</b>   | 5.6 Gbps  |
|                                   | <b>MAC address table size</b>   | 16000 entries   |
| <b>Environment</b>                | <b>Operating temperature</b>  | 32°F to 113°F (0°C to 45°C)   |
|                                   | <b>Operating relative humidity</b>  | 15% to 95% @ 104°F (40°C), noncondensing  |
|                                   | <b>Non-operating/Storage temperature</b>  | -40°F to 158°F (-40°C to 70°C)  |
|                                   | <b>Non-operating/Storage relative humidity</b>  | 15% to 90% @ 149°F (65°C), noncondensing  |
|                                   | <b>Altitude</b>   | up to 10,000 ft (3 km)  |

## Technical Specifications

|                                   |  |  |
|-----------------------------------|--|--|
|                                   | <b>Acoustic</b>  | Power: 0 dB, Pressure: 0 dB  |
| <b>Electrical characteristics</b> | <b>Frequency</b>   | 50/60 Hz   |
|                                   | <b>Maximum heat dissipation</b>  | 29 BTU/hr (30.6 kJ/hr), (switch only: 29 BTU/hr; combined switch + max. PoE devices: 262 TU/hr)  |
|                                   | <b>Voltage</b>   | 100 - 127 / 200 - 240 VAC, rated   |
|                                   | <b>Current</b>   | 1.4 A  |
|                                   | <b>Maximum power rating</b>  | 76.7 W   |
|                                   | <b>Idle power</b>  | 5.8 W  |
|                                   | <b>PoE power</b>   | 67 W   |
|                                   | <b>NOTES</b>   | <p>Idle power is the actual power consumption of the device with no ports connected.</p> <p>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.</p> <p>PoE power is the total power budget available to all PoE ports.</p> |
| <b>Safety</b>                     | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1  |  |
| <b>Emissions</b>                  | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A   |  |
| <b>Immunity</b>                   | <b>Generic</b>   | EN 55024, CISPR 24   |
|                                   | <b>EN</b>  | EN 55024, CISPR 24   |
|                                   | <b>ESD</b>   | IEC 61000-4-2  |
|                                   | <b>Radiated</b>  | IEC 61000-4-3  |
|                                   | <b>EFT/Burst</b>   | IEC 61000-4-4  |
|                                   | <b>Surge</b>   | IEC 61000-4-5  |
|                                   | <b>Conducted</b>   | IEC 61000-4-6  |
|                                   | <b>Power frequency magnetic field</b>  | IEC 61000-4-8  |
|                                   | <b>Voltage dips and interruptions</b>  | IEC 61000-4-11   |
|                                   |  | <b>Harmonics</b>   |
|                                   | <b>Flicker</b>   | EN 61000-3-3, IEC 61000-3-3  |
| <b>Management</b>                 | 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  |  |
| <b>NOTES</b>                      | 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.  |  |
| <b>Services</b>                   | Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office. |  |

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### Aruba 2530 48G Switch (J9775A)

**I/O ports and slots** 48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

4 fixed Gigabit Ethernet SFP ports

**Additional ports and slots** 1 dual-personality (RJ-45 or USB micro-B) serial console port

## Technical Specifications

|                                   |   |  |
|-----------------------------------|---|--|
| <b>Physical characteristics</b>   | <b>Dimensions</b>   | 17.44(w) x 10.00(d) x 1.75(h) in (44.3 x 25.4 x 4.45 cm) (1U height)   |
|                                   | <b>Weight</b>   | 6.8 lb (3.08 kg)   |
| <b>Memory and processor</b>       | <b>Processor</b>  | ARM9E @ 800 MHz, 128 MB flash; Packet buffer size: 3 MB dynamically allocated, 256 MB DDR3 DIMM  |
| <b>Mounting and enclosure</b>     | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); Horizontal surface mounting; Wall mounting |  |
| <b>Performance</b>                | <b>IPv6 Ready Certified</b>   |  |
|                                   | <b>100 Mb Latency</b>   | < 7.4 $\mu$ s (LIFO 64-byte packets)   |
|                                   | <b>1000 Mb Latency</b>  | < 2.3 $\mu$ s (LIFO 64-byte packets)   |
|                                   | <b>Throughput</b>   | up to 77.3 Mpps (64-byte packets)  |
|                                   | <b>Switching capacity</b>   | 104 Gbps   |
|                                   | <b>MAC address table size</b>   | 16000 entries  |
| <b>Environment</b>                | <b>Operating temperature</b>  | 32°F to 113°F (0°C to 45°C)  |
|                                   | <b>Operating relative humidity</b>  | 15% to 95% @ 104°F (40°C), noncondensing   |
|                                   | <b>Non-operating/Storage temperature</b>  | -40°F to 158°F (-40°C to 70°C)   |
|                                   | <b>Non-operating/Storage relative humidity</b>  | 15% to 90% @ 149°F (65°C), noncondensing   |
|                                   | <b>Altitude</b>   | up to 10,000 ft (3 km)   |
|                                   | <b>Acoustic</b>   | Power: 34.5 dB, Pressure: 31.0 dB  |
| <b>Electrical characteristics</b> | <b>Frequency</b>  | 50/60 Hz<br>Achieved Miercom Certified Green Award   |
|                                   | <b>Maximum heat dissipation</b>   | 203 BTU/hr (214.17 kJ/hr)  |
|                                   | <b>Voltage</b>  | 100 - 127 / 200 - 240 VAC, rated   |
|                                   | <b>Current</b>  | 1.2/0.7 A  |
|                                   | <b>Maximum power rating</b>   | 59.5 W   |
|                                   | <b>Idle power</b>   | 29.5 W   |
|                                   | <b>NOTES</b>  | Idle power is the actual power consumption of the device with no ports connected.<br>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. |
| <b>Safety</b>                     | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1   |  |
| <b>Emissions</b>                  | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A  |  |
| <b>Immunity</b>                   | <b>Generic</b>  | EN 55024, CISPR 24   |
|                                   | <b>EN</b>   | EN 55024, CISPR 24   |
|                                   | <b>ESD</b>  | IEC 61000-4-2  |
|                                   | <b>Radiated</b>   | IEC 61000-4-3  |
|                                   | <b>EFT/Burst</b>  | IEC 61000-4-4  |
|                                   | <b>Surge</b>  | IEC 61000-4-5  |
|                                   | <b>Conducted</b>  | IEC 61000-4-6  |
|                                   | <b>Power frequency magnetic field</b>   | IEC 61000-4-8  |

## Technical Specifications

|                   |  |                             |
|-------------------|--|-----------------------------|
|                   | <b>Voltage dips and interruptions</b>  | IEC 61000-4-11              |
|                   | <b>Harmonics</b>   | EN 61000-3-2, IEC 61000-3-2 |
|                   | <b>Flicker</b>   | EN 61000-3-3, IEC 61000-3-3 |
| <b>Management</b> | 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  |                             |
| <b>NOTES</b>      | 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.  |                             |
| <b>Services</b>   | Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office. |                             |

### Aruba 2530 24G Switch (J9776A)

|                                   |  |   |
|-----------------------------------|--|---|
| <b>I/O ports and slots</b>        | 24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T)<br>Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only<br>4 fixed Gigabit Ethernet SFP ports |   |
| <b>Additional ports and slots</b> | 1 dual-personality (RJ-45 or USB micro-B) serial console port  |   |
| <b>Physical characteristics</b>   | <b>Dimensions</b>  | 17.44(w) x 10.00(d) x 1.75(h) in (44.3 x 25.4 x 4.45 cm) (1U height)                              |
|                                   | <b>Weight</b>  | 6.1 lb (2.77 kg)  |
| <b>Memory and processor</b>       | <b>Processor</b>   | ARM9E @ 800 MHz, 128 MB flash; Packet buffer size: 1.5 MB dynamically allocated, 256 MB DDR3 DIMM |
| <b>Mounting and enclosure</b>     | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); Horizontal surface mounting; Wall mounting  |   |
| <b>Performance</b>                | <b>IPv6 Ready Certified</b>  |   |
|                                   | <b>100 Mb Latency</b>  | < 7.4 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>1000 Mb Latency</b>   | < 2.3 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>Throughput</b>  | up to 41.6 Mpps (64-byte packets)   |
|                                   | <b>Switching capacity</b>  | 56 Gbps   |
|                                   | <b>MAC address table size</b>  | 16000 entries   |
| <b>Environment</b>                | <b>Operating temperature</b>   | 32°F to 113°F (0°C to 45°C)   |
|                                   | <b>Operating relative humidity</b>   | 15% to 95% @ 104°F (40°C), noncondensing  |
|                                   | <b>Non-operating/Storage temperature</b>   | -40°F to 158°F (-40°C to 70°C)  |
|                                   | <b>Non-operating/Storage relative humidity</b>   | 15% to 90% @ 149°F (65°C), noncondensing  |
|                                   | <b>Altitude</b>  | up to 10,000 ft (3 km)  |
|                                   | <b>Acoustic</b>  | Power: 34.0 dB, Pressure: 26.4 dB   |
| <b>Electrical characteristics</b> | <b>Frequency</b>   | 50/60 Hz  |
|                                   | <b>Maximum heat dissipation</b>  | 164 BTU/hr (173.02 kJ/hr)   |
|                                   | <b>Voltage</b>   | 100 - 127 / 200 - 240 VAC, rated  |
|                                   | <b>Current</b>   | .6/4 A  |
|                                   | <b>Maximum power rating</b>  | 48.0 W  |

## Technical Specifications

|                   |                                       |  |
|-------------------|---------------------------------------|--|
|                   | <b>Idle power</b>                     | 28.8 W   |
|                   | <b>NOTES</b>                          | Idle power is the actual power consumption of the device with no ports connected.<br>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.               |
| <b>Safety</b>     |                                       | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1  |
| <b>Emissions</b>  |                                       | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A   |
| <b>Immunity</b>   | <b>Generic</b>                        | EN 55024, CISPR 24   |
|                   | <b>EN</b>                             | EN 55024, CISPR 24   |
|                   | <b>ESD</b>                            | IEC 61000-4-2  |
|                   | <b>Radiated</b>                       | IEC 61000-4-3  |
|                   | <b>EFT/Burst</b>                      | IEC 61000-4-4  |
|                   | <b>Surge</b>                          | IEC 61000-4-5  |
|                   | <b>Conducted</b>                      | IEC 61000-4-6  |
|                   | <b>Power frequency magnetic field</b> | IEC 61000-4-8  |
|                   | <b>Voltage dips and interruptions</b> | IEC 61000-4-11   |
|                   | <b>Harmonics</b>                      | EN 61000-3-2, IEC 61000-3-2  |
|                   | <b>Flicker</b>                        | EN 61000-3-3, IEC 61000-3-3  |
| <b>Management</b> |                                       | 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   |
| <b>NOTES</b>      |                                       | 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.  |
| <b>Services</b>   |                                       | Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office. |

### Aruba 2530 8G Switch (J9777A)

|                                   |                             |  |
|-----------------------------------|-----------------------------|--|
| <b>I/O ports and slots</b>        |                             | 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<br><br>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 |
| <b>Additional ports and slots</b> |                             | 1 dual-personality (RJ-45 or USB micro-B) serial console port  |
| <b>Physical characteristics</b>   | <b>Dimensions</b>           | 10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height)  |
|                                   | <b>Weight</b>               | 2.0 lb (0.91 kg)   |
| <b>Memory and processor</b>       | <b>Processor</b>            | ARM9E @ 800 MHz, 128 MB flash; Packet buffer size: 1.5 MB dynamically allocated, 256 MB DDR3 DIMM  |
| <b>Mounting and enclosure</b>     |                             | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting  |
| <b>Performance</b>                | <b>IPv6 Ready Certified</b> |  |

## Technical Specifications

|                                   |  |  |
|-----------------------------------|--|--|
|                                   | <b>100 Mb Latency</b>  | < 7.4 $\mu$ s (LIFO 64-byte packets)   |
|                                   | <b>1000 Mb Latency</b>   | < 2.6 $\mu$ s (LIFO 64-byte packets)   |
|                                   | <b>Throughput</b>  | up to 14.8 Mpps (64-byte packets)  |
|                                   | <b>Switching capacity</b>  | 20 Gbps  |
|                                   | <b>MAC address table size</b>  | 16000 entries  |
| <b>Environment</b>                | <b>Operating temperature</b>   | 32°F to 113°F (0°C to 45°C)  |
|                                   | <b>Operating relative humidity</b>   | 15% to 95% @ 104°F (40°C), noncondensing   |
|                                   | <b>Non-operating/Storage temperature</b>   | -40°F to 158°F (-40°C to 70°C)   |
|                                   | <b>Non-operating/Storage relative humidity</b>   | 15% to 90% @ 149°F (65°C), noncondensing   |
|                                   | <b>Altitude</b>  | up to 10,000 ft (3 km)   |
|                                   | <b>Acoustic</b>  | Power: 0 dB, Pressure: 0 dB  |
| <b>Electrical characteristics</b> | <b>Frequency</b>   | 50/60 Hz   |
|                                   | <b>Maximum heat dissipation</b>  | 63 BTU/hr (66.46 kJ/hr), (switch only: 63 BTU/hr)  |
|                                   | <b>Voltage</b>   | 100 - 127 / 200 - 240 VAC, rated   |
|                                   | <b>Current</b>   | 0.5 A  |
|                                   | <b>Maximum power rating</b>  | 18.6 W   |
|                                   | <b>Idle power</b>  | 13.6 W   |
|                                   | <b>NOTES</b>   | <p>Idle power is the actual power consumption of the device with no ports connected.</p> <p>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated</p> |
| <b>Safety</b>                     | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1  |  |
| <b>Emissions</b>                  | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A   |  |
| <b>Immunity</b>                   | <b>Generic</b>   | EN 55024, CISPR 24   |
|                                   | <b>EN</b>  | EN 55024, CISPR 24   |
|                                   | <b>ESD</b>   | IEC 61000-4-2  |
|                                   | <b>Radiated</b>  | IEC 61000-4-3  |
|                                   | <b>EFT/Burst</b>   | IEC 61000-4-4  |
|                                   | <b>Surge</b>   | IEC 61000-4-5  |
|                                   | <b>Conducted</b>   | IEC 61000-4-6  |
|                                   | <b>Power frequency magnetic field</b>  | IEC 61000-4-8  |
|                                   | <b>Voltage dips and interruptions</b>  | IEC 61000-4-11   |
|                                   | <b>Harmonics</b>   | EN 61000-3-2, IEC 61000-3-2  |
| <b>Flicker</b>                    | EN 61000-3-3, IEC 61000-3-3  |  |
| <b>Management</b>                 | 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 |  |

## Technical Specifications

|                                      |  |   |
|--------------------------------------|--|---|
| <b>NOTES</b>                         | 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.  |   |
| <b>Services</b>                      | Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office. |   |
| <hr/>                                |  |   |
| <b>Aruba 2530 48 Switch (J9781A)</b> |  |   |
| <b>I/O ports and slots</b>           | 48 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full<br>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<br>2 fixed Gigabit Ethernet SFP ports |   |
| <b>Additional ports and slots</b>    | 1 dual-personality (RJ-45 or USB micro-B) serial console port  |   |
| <b>Physical characteristics</b>      | <b>Dimensions</b>  | 17.40(w) x 9.70(d) x 1.75(h) in (44.2 x 24.64 x 4.45 cm) (1U height)  |
|                                      | <b>Weight</b>  | 6.3 lb (2.86 kg)  |
| <b>Memory and processor</b>          | <b>Processor</b>   | ARM9E @ 800 MHz, 128 MB flash; Packet buffer size: 3 MB dynamically allocated, 256 MB DDR3 DIMM   |
| <b>Mounting and enclosure</b>        | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); Horizontal surface mounting; Wall mounting  |   |
| <b>Performance</b>                   | <b>IPv6 Ready Certified</b>  |   |
|                                      | <b>100 Mb Latency</b>  | < 6.6 $\mu$ s (LIFO 64-byte packets)  |
|                                      | <b>1000 Mb Latency</b>   | < 2.2 $\mu$ s (LIFO 64-byte packets)  |
|                                      | <b>Throughput</b>  | up to 13 Mpps (64-byte packets)   |
|                                      | <b>Switching capacity</b>  | 17.6 Gbps   |
|                                      | <b>MAC address table size</b>  | 16000 entries   |
| <b>Environment</b>                   | <b>Operating temperature</b>   | 32°F to 113°F (0°C to 45°C)   |
|                                      | <b>Operating relative humidity</b>   | 15% to 95% @ 104°F (40°C), noncondensing  |
|                                      | <b>Non-operating/Storage temperature</b>   | -40°F to 158°F (-40°C to 70°C)  |
|                                      | <b>Non-operating/Storage relative humidity</b>   | 15% to 90% @ 149°F (65°C), noncondensing  |
|                                      | <b>Altitude</b>  | up to 10,000 ft (3 km)  |
|                                      | <b>Acoustic</b>  | Power: 0 dB, Pressure: 0 dB   |
| <b>Electrical characteristics</b>    | <b>Frequency</b>   | 50/60 Hz  |
|                                      | <b>Maximum heat dissipation</b>  | 102 BTU/hr (107.61 kJ/hr)   |
|                                      | <b>Voltage</b>   | 100 - 127 / 200 - 240 VAC, rated  |
|                                      | <b>Current</b>   | 0.7/0.4 A   |
|                                      | <b>Maximum power rating</b>  | 29.9 W  |
|                                      | <b>Idle power</b>  | 17.1 W  |
|                                      | <b>NOTES</b>   | Idle power is the actual power consumption of the device with no ports connected.<br>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the |

## Technical Specifications

infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.

|                   |  |
|-------------------|--|
| <b>Safety</b>     | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1  |
| <b>Emissions</b>  | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A   |
| <b>Immunity</b>   | <p><b>Generic</b> EN 55024, CISPR 24</p> <p><b>EN</b> EN 55024, CISPR 24</p> <p><b>ESD</b> IEC 61000-4-2</p> <p><b>Radiated</b> IEC 61000-4-3</p> <p><b>EFT/Burst</b> IEC 61000-4-4</p> <p><b>Surge</b> IEC 61000-4-5</p> <p><b>Conducted</b> IEC 61000-4-6</p> <p><b>Power frequency magnetic field</b> IEC 61000-4-8</p> <p><b>Voltage dips and interruptions</b> IEC 61000-4-11</p> <p><b>Harmonics</b> EN 61000-3-2, IEC 61000-3-2</p> <p><b>Flicker</b> EN 61000-3-3, IEC 61000-3-3</p> |
| <b>Management</b> | 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   |
| <b>NOTES</b>      | 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.  |
| <b>Services</b>   | Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.   |

### Aruba 2530 24 Switch (J9782A)

|                                   |   |
|-----------------------------------|---|
| <b>I/O ports and slots</b>        | 24 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full   |
|                                   | 2 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only   |
|                                   | 2 fixed Gigabit Ethernet SFP ports  |
| <b>Additional ports and slots</b> | 1 dual-personality (RJ-45 or USB micro-B) serial console port   |
| <b>Physical characteristics</b>   | <p><b>Dimensions</b> 17.40(w) x 9.70(d) x 1.75(h) in (44.2 x 24.64 x 4.45 cm) (1U height)</p> <p><b>Weight</b> 5.7 lb (2.59 kg)</p>   |
| <b>Memory and processor</b>       | <b>Processor</b> ARM9E @ 800 MHz, 128 MB flash; Packet buffer size: 1.5 MB dynamically allocated, 256 MB DDR3 DIMM  |
| <b>Mounting and enclosure</b>     | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); Horizontal surface mounting; Wall mounting   |
| <b>Performance</b>                | <p><b>IPv6 Ready Certified</b></p> <p><b>100 Mb Latency</b> &lt; 1.7 <math>\mu</math>s (LIFO 64-byte packets)</p> <p><b>1000 Mb Latency</b> &lt; 1.1 <math>\mu</math>s (LIFO 64-byte packets)</p> <p><b>Throughput</b> up to 9.5 Mpps (64-byte packets)</p> <p><b>Switching capacity</b> 12.8 Gbps</p> <p><b>MAC address table size</b> 16000 entries</p> |



## Technical Specifications

|                                   |  |  |
|-----------------------------------|--|--|
| <b>Environment</b>                | <b>Operating temperature</b>   | 32°F to 113°F (0°C to 45°C)  |
|                                   | <b>Operating relative humidity</b>   | 15% to 95% @ 104°F (40°C), noncondensing   |
|                                   | <b>Non-operating/Storage temperature</b>   | -40°F to 158°F (-40°C to 70°C)   |
|                                   | <b>Non-operating/Storage relative humidity</b>   | 15% to 90% @ 149°F (65°C), noncondensing   |
|                                   | <b>Altitude</b>  | up to 10,000 ft (3 km)   |
|                                   | <b>Acoustic</b>  | Power: 0 dB, Pressure: 0 dB  |
| <b>Electrical characteristics</b> | <b>Frequency</b>   | 50/60 Hz   |
|                                   | <b>Maximum heat dissipation</b>  | 50 BTU/hr (52.75 kJ/hr)  |
|                                   | <b>Voltage</b>   | 100 - 127 / 200 - 240 VAC, rated   |
|                                   | <b>Current</b>   | 0.3/0.2 A  |
|                                   | <b>Maximum power rating</b>  | 14.7 W   |
|                                   | <b>Idle power</b>  | 8.4 W  |
|                                   | <b>NOTES</b>   | Idle power is the actual power consumption of the device with no ports connected.<br>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. |
|                                   | <b>Safety</b>  | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1  |
| <b>Emissions</b>                  | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A   |  |
| <b>Immunity</b>                   | <b>Generic</b>   | EN 55024, CISPR 24   |
|                                   | <b>EN</b>  | EN 55024, CISPR 24   |
|                                   | <b>ESD</b>   | IEC 61000-4-2  |
|                                   | <b>Radiated</b>  | IEC 61000-4-3  |
|                                   | <b>EFT/Burst</b>   | IEC 61000-4-4  |
|                                   | <b>Surge</b>   | IEC 61000-4-5  |
|                                   | <b>Conducted</b>   | IEC 61000-4-6  |
|                                   | <b>Power frequency magnetic field</b>  | IEC 61000-4-8  |
|                                   | <b>Voltage dips and interruptions</b>  | IEC 61000-4-11   |
|                                   | <b>Harmonics</b>   | EN 61000-3-2, IEC 61000-3-2  |
| <b>Flicker</b>                    | EN 61000-3-3, IEC 61000-3-3  |  |
| <b>Management</b>                 | 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   |  |
| <b>NOTES</b>                      | 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.  |  |
| <b>Services</b>                   | Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office. |  |

## Technical Specifications

### Aruba 2530 8 Switch (J9783A)

|                                   |   |   |
|-----------------------------------|---|---|
| <b>I/O ports and slots</b>        | 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<br>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 |   |
| <b>Additional ports and slots</b> | 1 dual-personality (RJ-45 or USB micro-B) serial console port   |   |
| <b>Physical characteristics</b>   | <b>Dimensions</b>   | 10.00(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height)  |
|                                   | <b>Weight</b>   | 1.8 lb (0.82 kg)  |
| <b>Memory and processor</b>       | <b>Processor</b>  | ARM9E @ 800 MHz, 128 MB flash; Packet buffer size: 1.5 MB dynamically allocated, 256 MB DDR3 DIMM   |
| <b>Mounting and enclosure</b>     | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting   |   |
| <b>Performance</b>                | <b>IPv6 Ready Certified</b>   |   |
|                                   | <b>100 Mb Latency</b>   | < 1.3 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>1000 Mb Latency</b>  | < 1.3 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>Throughput</b>   | up to 4.1 Mpps (64-byte packets)  |
|                                   | <b>Switching capacity</b>   | 5.6 Gbps  |
|                                   | <b>MAC address table size</b>   | 16000 entries   |
| <b>Environment</b>                | <b>Operating temperature</b>  | 32°F to 113°F (0°C to 45°C)   |
|                                   | <b>Operating relative humidity</b>  | 15% to 95% @ 104°F (40°C), noncondensing  |
|                                   | <b>Non-operating/Storage temperature</b>  | -40°F to 158°F (-40°C to 70°C)  |
|                                   | <b>Non-operating/Storage relative humidity</b>  | 15% to 90% @ 149°F (65°C), noncondensing  |
|                                   | <b>Altitude</b>   | up to 10,000 ft (3 km)  |
|                                   | <b>Acoustic</b>   | Power: 0 dB, Pressure: 0 dB   |
| <b>Electrical characteristics</b> | <b>Frequency</b>  | 50/60 Hz  |
|                                   | <b>Maximum heat dissipation</b>   | 25 BTU/hr (26.38 kJ/hr)   |
|                                   | <b>Voltage</b>  | 100 - 127 / 200 - 240 VAC, rated  |
|                                   | <b>Current</b>  | 0.5 A   |
|                                   | <b>Maximum power rating</b>   | 7.2 W   |
|                                   | <b>Idle power</b>   | 4.5 W   |
|                                   | <b>NOTES</b>  | <p>Idle power is the actual power consumption of the device with no ports connected.</p> <p>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.</p> |
| <b>Safety</b>                     | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1   |   |
| <b>Emissions</b>                  | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A  |   |
| <b>Immunity</b>                   | <b>Generic</b>  | EN 55024, CISPR 24  |
|                                   | <b>EN</b>   | EN 55024, CISPR 24  |
|                                   | <b>ESD</b>  | IEC 61000-4-2   |

## Technical Specifications

|                   |  |                             |
|-------------------|--|-----------------------------|
|                   | <b>Radiated</b>  | IEC 61000-4-3               |
|                   | <b>EFT/Burst</b>   | IEC 61000-4-4               |
|                   | <b>Surge</b>   | IEC 61000-4-5               |
|                   | <b>Conducted</b>   | IEC 61000-4-6               |
|                   | <b>Power frequency magnetic field</b>  | IEC 61000-4-8               |
|                   | <b>Voltage dips and interruptions</b>  | IEC 61000-4-11              |
|                   | <b>Harmonics</b>   | EN 61000-3-2, IEC 61000-3-2 |
|                   | <b>Flicker</b>   | EN 61000-3-3, IEC 61000-3-3 |
| <b>Management</b> | 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   |                             |
| <b>NOTES</b>      | 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.  |                             |
| <b>Services</b>   | Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office. |                             |

### Aruba 2530 8 PoE+ Internal PS Switch (JL070A)

|                                   |   |   |
|-----------------------------------|---|---|
| <b>I/O ports and slots</b>        | 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<br>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 |   |
| <b>Additional ports and slots</b> | 1 dual-personality (RJ-45 or USB micro-B) serial console port   |   |
| <b>Physical characteristics</b>   | <b>Dimensions</b>   | 10(w) x 9.68(d) x 1.75(h) in (25.4 x 24.59 x 4.45 cm) (1U height)                                 |
|                                   | <b>Weight</b>   | 4.65 lb (2.11 kg)   |
| <b>Memory and processor</b>       | <b>Processor</b>  | ARM9E @ 800 MHz, 128 MB flash; Packet buffer size: 1.5 MB dynamically allocated, 256 MB DDR3 DIMM |
| <b>Mounting and enclosure</b>     | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); Horizontal surface mounting; Wall mounting   |   |
| <b>Performance</b>                | <b>IPv6 Ready Certified</b>   |   |
|                                   | <b>100 Mb Latency</b>   | < 1.3 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>1000 Mb Latency</b>  | < 1.3 $\mu$ s (LIFO 64-byte packets)  |
|                                   | <b>10 Gbps Latency</b>  |   |
|                                   | <b>Throughput</b>   | up to 4.1 Mpps (64-byte packets)  |
|                                   | <b>Switching capacity</b>   | 5.6 Gbps  |
|                                   | <b>MAC address table size</b>   | 16000 entries   |
| <b>Environment</b>                | <b>Operating temperature</b>  | 32°F to 113°F (0°C to 45°C)   |
|                                   | <b>Operating relative humidity</b>  | 15% to 95% @ 104°F (40°C), noncondensing  |
|                                   | <b>Non-operating/Storage temperature</b>  | -40°F to 158°F (-40°C to 70°C)  |
|                                   | <b>Non-operating/Storage relative humidity</b>  | 15% to 90% @ 149°F (65°C), noncondensing  |

## Technical Specifications

|                                   |  |  |
|-----------------------------------|--|--|
|                                   | <b>Altitude</b>  | up to 10,000 ft (3 km)   |
|                                   | <b>Acoustic</b>  | Power: 0 dB, Pressure: 0 dB  |
| <b>Electrical characteristics</b> | <b>Frequency</b>   | 50/60 Hz   |
|                                   | <b>Maximum heat dissipation</b>  | 29 BTU/hr (30.6 kJ/hr), (switch only: 29 BTU/hr; combined switch + max. PoE devices: 239 BTU/hr)   |
|                                   | <b>Voltage</b>   | 100 - 127 / 200 - 240 VAC, rated   |
|                                   | <b>Current</b>   | 0.9/0.5 A  |
|                                   | <b>Maximum power rating</b>  | 70.2 W   |
|                                   | <b>Idle power</b>  | 5.3 W  |
|                                   | <b>PoE Power</b>   | 67 W PoE   |
|                                   | <b>NOTES</b>   | <p>Idle power is the actual power consumption of the device with no ports connected.</p> <p>Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.</p> <p>PoE power is the total power budget available to all PoE ports.</p> |
|                                   | <b>Safety</b>  | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1  |
| <b>Emissions</b>                  | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A   |  |
| <b>Immunity</b>                   | <b>Generic</b>   | EN 55024, CISPR 24   |
|                                   | <b>EN</b>  | EN 55024, CISPR 24   |
|                                   | <b>ESD</b>   | IEC 61000-4-2  |
|                                   | <b>Radiated</b>  | IEC 61000-4-3  |
|                                   | <b>EFT/Burst</b>   | IEC 61000-4-4  |
|                                   | <b>Surge</b>   | IEC 61000-4-5  |
|                                   | <b>Conducted</b>   | IEC 61000-4-6  |
|                                   | <b>Power frequency magnetic field</b>  | IEC 61000-4-8  |
|                                   | <b>Voltage dips and interruptions</b>  | IEC 61000-4-11   |
|                                   | <b>Harmonics</b>   | EN 61000-3-2, IEC 61000-3-2  |
| <b>Flicker</b>                    | EN 61000-3-3, IEC 61000-3-3  |  |
| <b>Management</b>                 | 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  |  |
| <b>NOTES</b>                      | <p>IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only.</p> <p>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.</p>  |  |
| <b>Services</b>                   | Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office. |  |

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

**Denial of service protection**      Network DoS Filter

## Technical Specifications

### Device Management

RFC 1591 DNS (client)  
RFC 2576 (Coexistence between SNMP V1, V2, V3)  
RFC 2579 (SMIPv2 Text Conventions)  
RFC 2580 (SMIPv2 Conformance)  
RFC 3416 (SNMP Protocol Operations v2)  
RFC 3417 (SNMP Transport Mappings)  
SSHv1/SSHv2 Secure Shell

### General Protocols

IEEE 802.1D MAC Bridges  
IEEE 802.1p Priority  
IEEE 802.1Q VLANs  
IEEE 802.1s Multiple Spanning Trees  
IEEE 802.1w Rapid Reconfiguration of Spanning Tree  
IEEE 802.3 Type 10BASE-T  
IEEE 802.3ab 1000BASE-T  
IEEE 802.3ad Link Aggregation Control Protocol (LACP)  
IEEE 802.3af Power over Ethernet  
IEEE 802.3at Power over Ethernet Plus  
IEEE 802.3az Energy Efficient Ethernet  
IEEE 802.3x Flow Control  
RFC 768 UDP  
RFC 783 TFTP Protocol (revision 2)  
RFC 792 ICMP  
RFC 793 TCP  
RFC 826 ARP  
RFC 854 TELNET  
RFC 868 Time Protocol  
RFC 951 BOOTP  
RFC 1350 TFTP Protocol (revision 2)  
RFC 1542 BOOTP Extensions  
RFC 1918 Address Allocation for Private Internet  
RFC 2030 Simple Network Time Protocol (SNTP) v4  
RFC 2131 DHCP  
RFC 3411 An Architecture for Describing Simple Network Management Protocol (SNMP) Management Frameworks  
RFC 3412 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)  
RFC 3413 Simple Network Management Protocol (SNMP) Applications  
RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)  
RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)  
RFC 3416 Protocol Operations for SNMP  
RFC 3575 IANA Considerations for RADIUS  
RFC 5905 Network Time Protocol Version 4: Protocol and Algorithms Specification

### IP Multicast

RFC 2236 IGMPv2

### IPv6

RFC 1981 IPv6 Path MTU Discovery  
RFC 2460 IPv6 Specification  
RFC 2464 Transmission of IPv6 over Ethernet Networks  
RFC 2925 Remote Operations MIB (Ping only)  
RFC 3315 DHCPv6 (client only)  
RFC 3484 Default Address Selection for IPv6

## Technical Specifications

RFC 3513 IPv6 Addressing Architecture  
RFC 3596 DNS Extension for IPv6  
RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6  
RFC 4022 MIB for TCP  
RFC 4113 MIB for UDP  
RFC 4251 SSHv6 Architecture  
RFC 4252 SSHv6 Authentication  
RFC 4252 SSHv6 Transport Layer  
RFC 4254 SSHv6 Connection  
RFC 4291 IP Version 6 Addressing Architecture  
RFC 4293 MIB for IP  
RFC 4419 Key Exchange for SSH  
RFC 4443 ICMPv6  
RFC 4861 IPv6 Neighbor Discovery  
RFC 4862 IPv6 Stateless Address Auto-configuration  
RFC 5095 Deprecation of Type 0 Routing Headers in IPv6

### MIBs

RFC 1155 Structure & ID of Mgmt Info for TCP/IP Internets  
RFC 1212 Concise MIB Definitions  
RFC 1213 MIB II  
RFC 1493 Bridge MIB  
RFC 2021 RMONv2 MIB  
RFC 2578 Structure of Management Information Version 2 (SMIv2)  
RFC 2579 Textual Conventions for SMIv2  
RFC 2613 SMON MIB  
RFC 2618 RADIUS Client MIB  
RFC 2620 RADIUS Accounting Client MIB  
RFC 2665 Ethernet-Like-MIB  
RFC 2668 802.3 MAU MIB  
RFC 2674 802.1p and IEEE 802.1Q Bridge MIB  
RFC 2737 Entity MIB (Version 2)  
RFC 2863 The Interfaces Group MIB  
RFC 4836 Managed Objects for 802.3 Medium Attachment Units (MAU)

### Network Management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)  
RFC 1098 A Simple Network Management Protocol (SNMP)  
RFC 1155 Structure of Management Information  
RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)  
RFC 3411 SNMP Management Frameworks  
RFC 3412 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)  
RFC 3413 Simple Network Management Protocol (SNMP) Applications  
RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)  
RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)  
RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)  
RFC 5424 Syslog Protocol  
ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)  
SNMPv1/v2c/v3

### QoS/CoS

RFC 2474 DiffServ precedence, with 4 queues per port  
RFC 2475 DiffServ Architecture

## Technical Specifications

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)

## Accessories

### Aruba 2530 Switch Series accessories

#### Transceivers

|   |        |
|---|--------|
| Aruba 100M SFP LC FX 2km MMF Transceiver    | J9054D |
| Aruba 1G SFP RJ45 T 100m Cat5e Transceiver  | J8177D |
| Aruba 1G SFP LC SX 500m OM2 MMF Transceiver | J4858D |
| Aruba 1G SFP LC LX 10km SMF Transceiver     | J4859D |
| Aruba 1G SFP LC LH 70km SMF Transceiver     | J4860D |

#### Cables

|                                      |        |
|--------------------------------------|--------|
| Aruba X2C2 RJ45 to DB9 Console Cable | JL448A |
|--------------------------------------|--------|

#### Mounting Kit

|  |        |
|--|--------|
| HPE X410 1U Universal 4-post Rackmount Kit | J9583A |
|--|--------|

#### Aruba 2530 8G PoE+ Switch (J9774A)

|  |        |
|--|--------|
| Aruba 2530 8-port Switch Pwr Adptr Shelf | J9820A |
| Aruba X510 1U Cable Guard                | J9700A |

#### Aruba 2530 8 PoE+ Switch (J9780A)

|  |        |
|--|--------|
| Aruba 2530 8-port Switch Pwr Adptr Shelf | J9820A |
| Aruba X510 1U Cable Guard                | J9700A |

#### Aruba 2530 8G Switch (J9777A)

|  |        |
|--|--------|
| Aruba 2530 8-port Switch Pwr Adptr Shelf | J9820A |
| Aruba X510 1U Cable Guard                | J9700A |

#### Aruba 2530 8 Switch (J9783A)

|  |        |
|--|--------|
| Aruba 2530 8-port Switch Pwr Adptr Shelf | J9820A |
| Aruba X510 1U Cable Guard                | J9700A |

#### Aruba 2530 8 PoE+ Internal PS Switch (JL070A)

|                           |        |
|---------------------------|--------|
| Aruba X510 1U Cable Guard | J9700A |
|---------------------------|--------|



## Accessory Product Details

**NOTE:** Details are not available for all accessories. The following specifications were available at the time of publication.

|  |                                 |   |  |
|--|---------------------------------|---|--|
| <b>HPE X111 100M SFP LC FX Transceiver (J9054C)</b>  | <b>Ports</b>                    | 1 LC 100BASE-FX port (IEEE 802.3u Type 100BASE-FX); Duplex: half or full  |  |
|  | <b>Physical characteristics</b> | Dimensions: 2.7(d) x 0.54(w) x 0.48(h) in. (6.86 x 1.38 x 1.22 cm)<br>Weight: 0.06 lb. (0.03 kg)  |  |
|  | <b>Environment</b>              | Operating temperature: 32°F to 158°F (0°C to 70°C)<br>Operating relative humidity: 5% to 95%<br>Nonoperating/Storage temperature: -40°F to 185°F (-40°C to 85°C)<br>Nonoperating/Storage relative humidity: 5% to 85%<br>Altitude: up to 10,000 ft. (3 km)  |  |
|  | <b>Cabling</b>                  | Type: <ul style="list-style-type: none"> <li>62.5/125 <math>\mu\text{m}</math> or 50/125 <math>\mu\text{m}</math> (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</li> </ul> Maximum distance: <ul style="list-style-type: none"> <li>2 km (full duplex) or 412 m (half duplex)</li> </ul>   |  |
|  | <b>NOTES</b>                    | Transmitter wavelength: 1310nm<br>Power consumption is 1.1 watt maximum.  |  |
|  | <b>Services</b>                 | For supported platforms and minimum software requirements to support this product, see the document titled "Support for the J9054C 100-FX SFP-LC Transceiver" on the "HPE Mini-GBICs and SFPs" Manuals Web page. Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office. |  |
| <b>HP X112 100M SFP LC BX-D Transceiver (J9099B)</b>   | <b>Ports</b>                    | 1 LC 100BASE-BX10 port (IEEE 802.3ah Type 100BASE-BX10-D); Duplex: full only  |  |
|  | <b>Physical characteristics</b> | <b>Dimensions</b>   | 2.7(d) x 0.55(w) x 0.48(h) in. (6.86 x 1.39 x 1.22 cm) |
| A small form-factor pluggable (SFP) 100-Megabit BX (bi-directional) "downstream" transceiver that provides 100 Mbps full-duplex connectivity up to 10 km on one strand of singlemode fiber. The J9099B connects to the J9100B "upstream" | <b>Environment</b>              | <b>Weight</b>   | 0.04 lb. (0.03 kg)                                     |
|  |                                 | <b>Operating temperature</b>  | 32°F to 158°F (0°C to 70°C)                            |
|  |                                 | <b>Operating relative humidity</b>  | 0% to 95%, noncondensing                               |
|  |                                 | <b>Nonoperating/Storage temperature</b>   | -40°F to 185°F (-40°C to 85°C)                         |
|  | <b>Cabling</b>                  | Type:<br><br>Single-mode fiber optic, complying with ITU-T G.652;   |  |

## Accessory Product Details

transceiver, or to any IEEE-standard 100BASE-BX10-U ("upstream") device.

Maximum distance:

- 0.5-10,000 m (single-mode fiber)

### NOTES

Transmit wavelength: 1550 nm. Receive wavelength: 1310 nm. 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 HPE BX Transceivers" on the "HPE 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.)

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office.

### HP X112 100M SFP LC BX-U 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.

### Ports

1 LC 100BASE-BX10 port (IEEE 802.3ah Type 100BASE-BX10-U); 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

0.07 lb. (.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)

### NOTES

For supported platforms and minimum software requirements to support this product, see the document titled "Support for the HPE BX Transceivers" on the "HPE Mini-GBICs and SFPs" Manuals Web page. The J9100B connects to the J9099B "downstream" transceiver, or to any IEEE-standard 100BASE-BX10-D ("downstream") device. (A 100-BX-U transceiver can only connect to a 100-BX-D product. You cannot connect two 100-BX-U transceivers together.) Transmit wavelength: 1310 nm. Receive wavelength: 1550 nm. Power consumption is 1.1 watts maximum.

### Services

Refer to the Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office.

## Accessory Product Details

|   |   |  |
|---|---|--|
| <p><b>HPE X121 1G SFP LC SX Transceiver</b> (J4858C)</p> <p>A small form-factor pluggable (SFP) Gigabit SX transceiver that provides a full-duplex Gigabit solution up to 550 m on multimode fiber.</p> | <p><b>Ports</b></p> <p><b>Physical characteristics</b></p> <p><b>Environment</b></p> <p><b>Electrical characteristics</b></p> <p><b>Cabling</b></p> | <p>1 LC 1000BASE-SX port; Duplex: full only</p> <p>Dimensions: 2.24(d) x 0.54(w) x 0.48(h) in. (5.69 x 1.37 x 1.22 cm)</p> <p>Weight: 0.04 lb. (0.02 kg)</p> <p>Transceiver form factor: SFP</p> <p>Operating temperature: 32°F to 158°F (0°C to 70°C)</p> <p>Operating relative humidity: 5% to 85%, noncondensing</p> <p>Nonoperating/Storage temperature: -40°F to 203°F (-40°C to 85°C)</p> <p>Altitude: up to 10,000 ft. (3 km)</p> <p>Power consumption typical: 0.4 W</p> <p>Power consumption maximum: 0.7 W</p> <p>Type:</p>  |
|   |   | <ul style="list-style-type: none"> <li>62.5/125 <math>\mu\text{m}</math> or 50/125 <math>\mu\text{m}</math> (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;</li> </ul> <p>Maximum distance:</p> <ul style="list-style-type: none"> <li>2-220 m (62.5 <math>\mu\text{m}</math> core diameter, 160 MHz*km bandwidth)</li> <li>2-275 m (62.5 <math>\mu\text{m}</math> core diameter, 200 MHz*km bandwidth)</li> <li>2-500 m (50 <math>\mu\text{m}</math> core diameter, 400 MHz*km bandwidth)</li> <li>2-550 m (50 <math>\mu\text{m}</math> core diameter, 500 MHz*km bandwidth)</li> </ul> <p>Cable length: 2-550m</p> <p>Fiber type: Multi Mode</p> |
|   | <p><b>Services</b></p>  | <p>Refer to the Hewlett Packard Enterprise website at <a href="http://www.hpe.com/networking/services">http://www.hpe.com/networking/services</a> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.</p>  |
| <p><b>HPE X121 1G SFP LC LX Transceiver</b> (J4859C)</p> <p>HP X121 1G SFP LC LX Transceiver: An SFP format gigabit transceiver with LC connectors using LX technology.</p>                             | <p><b>Ports</b></p> <p><b>Physical characteristics</b></p> <p><b>Environment</b></p> <p><b>Cabling</b></p>  | <p>1 LC 1000BASE-LX port (IEEE 802.3z Type 1000BASE-LX); Duplex: full only</p> <p>Dimensions: 2.24(d) x 0.54(w) x 0.486(h) in. (5.69 x 1.37 x 1.23 cm)</p> <p>Weight: 0.04 lb. (0.02 kg)</p> <p>Operating temperature: 32°F to 158°F (0°C to 70°C)</p> <p>Operating relative humidity: 0% to 85%, noncondensing</p> <p>Nonoperating/Storage temperature: -40°F to 212°F (-40°C to 100°C)</p> <p>Altitude: up to 10,000 ft. (3 km)</p> <p>Type:</p>   |
|   |   | <ul style="list-style-type: none"> <li>Either single mode or multimode; 62.5/125 <math>\mu\text{m}</math> or 50/125 <math>\mu\text{m}</math> (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;</li> </ul> <p>Maximum distance:</p>   |

## Accessory Product Details

- 2-550 m (multimode 62.5  $\mu\text{m}$  core diameter, 500 MHz\*km bandwidth)
- 2-550 m (multimode 50  $\mu\text{m}$  core diameter, 400 MHz\*km bandwidth)
- 2-550 m (multimode 50  $\mu\text{m}$  core diameter, 500 MHz\*km bandwidth)
- 2-10,000 m (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 Hewlett Packard Enterprise website

at <http://www.hpe.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 Hewlett Packard Enterprise sales office.

### HPE X121 1G SFP LC LH Ports 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.

#### Physical characteristics

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

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;

Maximum distance:

- 10-70,000 m (single-mode fiber)

### 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 Hewlett Packard Enterprise website

at <http://www.hpe.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 Hewlett Packard Enterprise sales office.

### HPE X121 1G SFP RJ45 T Transceiver (J8177C)

A small form-factor pluggable (SFP) Gigabit copper transceiver that

#### Physical characteristics

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

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

## Accessory Product Details

provides a full-duplex Gigabit solution up to 100 m on Category 5 or better cable

### Cabling

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)

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 "HPE 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 HPE 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.

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## HPE X410 1U Universal 4-post Rackmount 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 design to fit the following racks: HPE 10K 10642, HPE 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 Hewlett Packard Enterprise website at: <http://www.hpe.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 Hewlett Packard Enterprise sales office.

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## Aruba 2530 8-port Switch Pwr Adptr Shelf (J9820A)

### Physical characteristics

6.75(w) x 5.25(d) x 1.75(h) in (17.15 x 13.34 x 4.45 cm) (1U height)

Weight

0.6 lb (0.27 kg)

### NOTES

The HPE 2530 8-Port Switch Power Adapter Shelf is an accessory for the HPE 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 Hewlett Packard Enterprise website at <http://www.hpe.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 Hewlett Packard Enterprise sales office.

## Accessory Product Details

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## Summary of Changes

| Date         | Version History | Action  | Description of Change   |
|--------------|-----------------|---------|---|
| 02-Jul-2018  | Version 17      | Changed | Software feature update   |
| 05-Feb-2018  | Version 16      | Changed | Updates made on Technical Specifications and Configuration  |
| 08-Jan-2018  | Version 15      | Changed | Software feature update   |
| 03-Jul-2017  | Version 14      | Added   | SKU added: JL448A   |
| 01-Aug-2016  | Version 13      | Changed | Adding #AC3 Option on Configuration Menu  |
| 06-June-2016 | Version 12      | Changed | Overview, Features and Benefits, Technical Specifications, and Accessories updated. SKU descriptions updated.   |
| 08-Jan-2016  | Version 11      | Changed | URLs updated  |
| 01-Dec-2015  | Version 10      | Changed | QuickSpecs name changed to Aruba 2530 Switch Series Overview, Features and Benefits, Accessories updated  |
| 30-Mar-2015  | Version 9       | Added   | Added new SKU:<br>JL070A  |
|              |                 | Changed | Changes made in the Overview, Technical Specifications, and Accessories sections.   |
| 01-Dec-2014  | Version 8       | Changed | Updated Warranty and support, updated technical specifications  |
| 18-Aug-2014  | Version 7       | Added   | Added 4 new models: J9856A, J9854A, J9855A, J9853A  |
|              |                 | Changed | Changes made on the entire QS.  |
| 09-Dec-2013  | Version 6       | Changed | Changes made in the Overview, Technical Specifications, and Accessories sections.   |
| 12-Nov-2013  | Version 5       | Changed | Build to Order, Rack Level Integration CTO Models, and Cables were revised.   |
| 27-Sep-2013  | Version 4       | Changed | Change made to the Configuration Section - Rack Mount Kit   |
| 17-Sep-2013  | Version 3       | Changed | Corrected an issue with the EMEA HTML file.   |
| 10-Jun-2013  | Version 2       | Changed | Changes made to the following:<br>Added several new models<br>Updated Accessories<br>Added the new Configuration section<br>Updated Features and Benefits |

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## Summary of Changes



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