Hewlett Packard Enterprise

Data sheet

# Aruba 2530 Switch Series



## 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.
- Supports ClearPass Policy Manager and Airwave Network Management.

## Product overview

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, optional PoE+, and optional 10GbE uplinks. The 2530 delivers power savings with fanless models, Energy Efficient Ethernet, ability to disable LEDs and enable port low power mode. These switches provide consistent wired/wireless user experience with unified management tools such as ClearPass Policy Manager and Airwave Network Management.

The Aruba 2530 Switch Series offers uplink flexibility with either four Gigabit or two 10 Gigabit Ethernet uplinks on some 24- and 48-port models. The Gigabit 24- and 48-port models have either two small form-factor pluggable plus (SFP+) or four small form-factor pluggable (SFP) slots for fiber connectivity. The Fast Ethernet 24- and 48-port models have two SFPs and two RJ-45 Gigabit uplinks. The compact and fan-less 8-port switches offer additional flexibility with two dual-personality ports that can be used as either RJ-45 Gigabit Ethernet or SFP ports. The PoE+ switch models 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+.

## Features and benefits

**Unified Wired and Wireless**

- **New** ClearPass Policy Manager

  Support unified wired and wireless policies using Aruba ClearPass Policy Manager

- HTTP redirect function

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

- Switch auto-configuration

  Automatically configures switch for different settings such as VLAN, CoS, PoE max power, and PoE priority when Aruba AP is detected

- **New** User Role

  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 switch configuration or ClearPass (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 quality of service (QoS) configuration

  – Port-based

  Prioritizes traffic by specifying a port and priority level

  – VLAN-based

  Prioritizes traffic by specifying a VLAN and priority level

- Class of Service (CoS)

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

- Rate limiting

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

- Layer 4 prioritization

  Enables prioritization based on TCP/UDP port numbers

- Flow control

  Helps deliver reliable communication during full-duplex operation

**Management**

- **New** Zero-Touch ProVisioning (ZTP)

  Uses settings in DHCP to enable ZTP with Aruba AirWave Network Management

- Choice of management interfaces

  – HTML-based easy-to-use Web GUI

  Allows configuration of the switch from any Web browser

  – Robust CLI

  Provides advanced configuration and diagnostics

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

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

- Virtual stacking

Provides single IP address management for up to 16 switches

- sFlow® (RFC 3176)

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

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

Automates device discovery protocol for easy mapping by network management applications

- Logging

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

- Port mirroring

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

- HPE Comware CLI

– Comware-compatible CLI

Bridges the experience of HPE Comware CLI users who are using the HPE ProVision software CLI

– Display and fundamental Comware CLI commands

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

– Configuration Comware CLI commands

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

- Download software via DHCP

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

- TR-069 support

Enables zero-touch configuration for switches

**Connectivity**

- IPv6

– IPv6 host

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

– Dual stack (IPv4/IPv6)

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

– MLD snooping

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

– IPv6 ACL/QoS

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

– Security

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

- IEEE 802.3af Power over Ethernet (PoE)

Provides up to 15.4 W per port to IEEE 802.3af-compliant PoE-powered devices such as IP phones, wireless access points, and security cameras

- IEEE 802.3at PoE+

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

- Auto-MDIX

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

- Pre-standard PoE support

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

- SFP slots

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

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

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

**Layer 2 switching**

- VLANs

  Provides support for 512 VLANs and 4,094 VLAN IDs

- Jumbo packet support

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

- 16K MAC address table

  Provides access to many Layer 2 devices

- GARP VLAN Registration Protocol

  Allows automatic learning and dynamic assignment of VLANs

- Rapid Per-VLAN Spanning Tree (RPVST+)

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

**Security**

- ACLs

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

- Source-port filtering

  Allows only specified ports to communicate with each other

- RADIUS/TACACS+

  Eases switch management security administration by using a password authentication server

- Secure Sockets Layer (SSL)

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

- Port security

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

- MAC address lockout

  Prevents particular configured MAC addresses from connecting to the network

- Multiple user authentication methods
  - IEEE 802.1X

    Uses an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server to authenticate in accordance with industry standards
  - Web-based authentication

    Provides a browser-based environment, similar to IEEE 802.1X, to authenticate clients that do not support the IEEE 802.1X supplicant
  - MAC-based authentication

    Authenticates the client with the RADIUS server based on the client's MAC address
- Secure shell (SSH) v2

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

  Encrypts all transmitted data for safe remote CLI access over IP networks
- STP BPDU port protection

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

  Protects the root bridge from malicious attacks or configuration mistakes
- Secure management access

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

  Displays security policy when users log in to the switch
- Secure FTP

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

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

- Authentication flexibility
  - Multiple IEEE 802.1X users per port

    Provides authentication for up to 32 IEEE 802.1X users per port; prevents a user from "piggybacking" on another user's IEEE 802.1X authentication
  - Concurrent IEEE 802.1X and Web or MAC authentication schemes per port

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

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

**Convergence**

- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

  Facilitates easy mapping using network management applications with LLDP automated device discovery protocol
- LLDP-MED (Media Endpoint Discovery)

  Defines a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones
- IP multicast (data-driven IGMP)

  Prevents flooding of IP multicast traffic
- PoE and PoE+ allocations

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

  Uses LLDP-MED to automatically configure a VLAN for IP phones
- IP multicast (data-driven IGMPv3)

  Prevents flooding of IP multicast traffic
- LLDP-CDP compatibility

  Receives and recognizes CDP packets from Cisco's IP phones for seamless interoperation
- Local MAC Authentication

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

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

**Resiliency and high availability**

- Port trunking and link aggregation
  - Trunking

    Supports up to eight links per trunk to increase bandwidth and create redundant connections; and supports L2, L3, and L4 trunk load-balancing algorithm (L4 trunk load balancing is supported only on Gigabit Ethernet and 48-port models.)
  - IEEE 802.3ad Link Aggregation Control Protocol (LACP)

    Eases configuration of trunks through automatic configuration
- IEEE 802.1s Multiple Spanning Tree

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

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

**Product architecture**

- Energy-efficient design
  - IEEE 802.3az

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

    Enables the port to automatically go into low-power mode to conserve energy when no link is detected
  - Fan-less and variable-speed fans

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

    Conserves energy by optionally turning off port link and activity LEDs
- Switch on a chip

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

**Flexibility**

- Flexible mounting
  - Rack mountable

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

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

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

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

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

**Convergence**

- Limited Lifetime Warranty:

  See **hpe.com/networking/warrantysummary** for warranty and support information included with your product purchase.
- Software releases

  To find software for your product, refer to **hpe.com/networking/support**; for details on the software releases available with your product purchase, refer to **hpe.com/networking/warrantysummary**

# Aruba 2530 Switch Series

## Specifications







| | Aruba 2530-48G-PoE+ Switch (J9772A) | Aruba 2530-24G-PoE+ Switch (J9773A) | Aruba 2530-8G-PoE+ Switch (J9774A) |
|---|---|---|---|
| **I/O ports and slots** | 48 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only<br>4 fixed Gigabit Ethernet SFP ports<br>1 dual-personality (RJ-45 or USB micro-B) serial console port | 24 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only<br>4 fixed Gigabit Ethernet SFP ports<br>1 dual-personality (RJ-45 or USB micro-B) serial console port | 8 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only<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)<br>1 dual-personality (RJ-45 or USB micro-B) serial console port |
| **Physical characteristics** | | | |
| Dimensions | 17.44(w) x 13.00(d) x 1.75(h) in (44.3 x 32.26 x 4.45 cm) (1U height) | 17.44(w) x 13.00(d) x 1.75(h) in (44.3 x 33.02 x 4.45 cm) (1U height) | 10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height) |
| Weight | 10.4 lb (4.72 kg) | 8.7 lb (3.95 kg) | 2.2 lb (1 kg) |
| **Memory and processor** | | | |
| Processor | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 3 MB dynamically allocated | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated |
| **Mounting and enclosure** | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting |
| **Performance** | | | |
| | IPv6 Ready Certified | IPv6 Ready Certified | IPv6 Ready Certified |
| 100 Mb Latency | < 7.4 µs (LIFO 64-byte packets) | < 7.4 µs (LIFO 64-byte packets) | < 7.4 µs (LIFO 64-byte packets) |
| 1000 Mb Latency | < 2.3 µs (LIFO 64-byte packets) | < 2.3 µs (LIFO 64-byte packets) | < 2.6 µs (LIFO 64-byte packets) |
| Throughput | up to 77.3 Mpps (64-byte packets) | up to 41.6 Mpps (64-byte packets) | up to 14.8 Mpps (64-byte packets) |
| Switching capacity | 104 Gb/s | 56 Gb/s | 20 Gb/s |
| MAC address table size | 16000 entries | 16000 entries | 16000 entries |
| **Environment** | | | |
| Operating temperature | 32°F to 113°F (0°C to 45°C) | 32°F to 113°F (0°C to 45°C) | 32°F to 113°F (0°C to 45°C) |
| Operating relative humidity | 15% to 95% @ 104°F (40°C), noncondensing | 15% to 95% @ 104°F (40°C), noncondensing | 15% to 95% @ 104°F (40°C), noncondensing |
| Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) |
| Nonoperating/Storage relative humidity | 15% to 90% @ 149°F (65°C), noncondensing | 15% to 90% @ 149°F (65°C), noncondensing | 15% to 90% @ 149°F (65°C), noncondensing |
| Altitude | up to 10,000 ft (3 km) | up to 10,000 ft (3 km) | up to 10,000 ft (3 km) |
| Acoustic | Power: 43.6 dB, Pressure: 33.6 dB | Power: 43.9 dB, Pressure: 39.6 dB | Power: 0 dB, Pressure: 0 dB |

| | Aruba 2530-48G-PoE+ Switch (J9772A) | Aruba 2530-24G-PoE+ Switch (J9773A) | Aruba 2530-8G-PoE+ Switch (J9774A) |
|---|---|---|---|
| **Electrical characteristics** | | | |
| Frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Maximum heat dissipation | 236 BTU/hr (248.98 kJ/hr), (switch only: 236 BTU/hr; combined switch + max. PoE devices: 1624 BTU/hr) | 135 BTU/hr (142.42 kJ/hr), (switch only: 135 BTU/hr; combined switch + max. PoE devices: 843 BTU/hr) | 65 BTU/hr (68.58 kJ/hr), (switch only: 65 BTU/hr; combined switch + max. PoE devices: 293 BTU/hr) |
| AC voltage | 100–127/200–240 VAC | 100–127/200–240 VAC | 100–127/200–240 VAC |
| Current | 5.8/2.9 A | 3.2/1.6 A | 1.4 A |
| Maximum power rating | 476 W | 247 W | 86 W |
| Idle power | 40.1 W | 25.2 W | 13.4 W |
| PoE power | 382 W | 195 W | 67 W |
| Notes | Idle power is the actual power consumption 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. | 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. | 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. |
| **Safety** | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1 | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1 | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1 |
| **Emissions** | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A |
| **Immunity** | | | |
| Generic | EN 55024, CISPR 24 | EN 55024, CISPR 24 | EN 55024, CISPR 24 |
| EN | EN 55024, CISPR 24 | EN 55024, CISPR 24 | EN 55024, CISPR 24 |
| ESD | IEC 61000-4-2 | IEC 61000-4-2 | IEC 61000-4-2 |
| Radiated | IEC 61000-4-3 | IEC 61000-4-3 | IEC 61000-4-3 |
| EFT/Burst | IEC 61000-4-4 | IEC 61000-4-4 | IEC 61000-4-4 |
| Surge | IEC 61000-4-5 | IEC 61000-4-5 | IEC 61000-4-5 |
| Conducted | IEC 61000-4-6 | IEC 61000-4-6 | IEC 61000-4-6 |
| Power frequency magnetic field | IEC 61000-4-8 | IEC 61000-4-8 | IEC 61000-4-8 |
| Voltage dips and interruptions | IEC 61000-4-11 | IEC 61000-4-11 | IEC 61000-4-11 |
| Harmonics | EN 61000-3-2, IEC 61000-3-2 | EN 61000-3-2, IEC 61000-3-2 | EN 61000-3-2, IEC 61000-3-2 |
| Flicker | EN 61000-3-3, IEC 61000-3-3 | EN 61000-3-3, IEC 61000-3-3 | EN 61000-3-3, IEC 61000-3-3 |
| **Management** | IMC—Intelligent Management Center; 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<br>AirWave Network Management | IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB<br>AirWave Network Management | IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB<br>AirWave Network Management |
| **Notes** | IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required. | IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required. | IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required. |
| **Services** | Refer to the Hewlett Packard Enterprise website at **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. | Refer to the Hewlett Packard Enterprise website at **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. | Refer to the Hewlett Packard Enterprise website at **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. |

# Aruba 2530 Switch Series (continued)

## Specifications (continued)





| | Aruba 2530-48-PoE+ Switch (J9778A) | Aruba 2530-24-PoE+ Switch (J9779A) | Aruba 2530-8-PoE+ Switch (J9780A) |
|---|---|---|---|
| **I/O ports and slots** | 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<br>1 dual-personality (RJ-45 or USB micro-B) serial console port | 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<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<br>1 dual-personality (RJ-45 or USB micro-B) serial console port | 8 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u 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<br>1 dual-personality (RJ-45 or USB micro-B) serial console port |
| **Physical characteristics** | | | |
| Dimensions | 17.4(w) x 12.7(d) x 1.75(h) in (44.2 x 32.26 x 4.45 cm) (1U height) | 17.4(w) x 12.7(d) x 1.75(h) in (44.2 x 32.26 x 4.45 cm) (1U height) | 10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height) |
| Weight | 10.1 lb (4.58 kg) | 8.4 lb (3.81 kg) | 2.0 lb (0.91 kg) |
| **Memory and processor** | | | |
| Processor | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 3 MB dynamically allocated | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated |
| **Mounting and enclosure** | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting |
| **Performance** | | | |
| | IPv6 Ready Certified | IPv6 Ready Certified | IPv6 Ready Certified |
| 100 Mb Latency | < 6.6 µs (LIFO 64-byte packets) | < 1.7 µs (LIFO 64-byte packets) | < 1.3 µs (LIFO 64-byte packets) |
| 1000 Mb Latency | < 2.2 µs (LIFO 64-byte packets) | < 1.1 µs (LIFO 64-byte packets) | < 1.3 µs (LIFO 64-byte packets) |
| Throughput | up to 13 Mpps (64-byte packets) | up to 9.5 Mpps (64-byte packets) | up to 4.1 Mpps (64-byte packets) |
| Switching capacity | 17.6 Gb/s | 12.8 Gb/s | 5.6 Gb/s |
| MAC address table size | 16000 entries | 16000 entries | 16000 entries |
| **Environment** | | | |
| Operating temperature | 32°F to 113°F (0°C to 45°C) | 32°F to 113°F (0°C to 45°C) | 32°F to 113°F (0°C to 45°C) |
| Operating relative humidity | 15% to 95% @ 104°F (40°C), noncondensing | 15% to 95% @ 104°F (40°C), noncondensing | 15% to 95% @ 104°F (40°C), noncondensing |
| Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) |
| Nonoperating/Storage relative humidity | 15% to 90% @ 149°F (65°C), noncondensing | 15% to 90% @ 149°F (65°C), noncondensing | 15% to 90% @ 149°F (65°C), noncondensing |
| Altitude | up to 10,000 ft (3 km) | up to 10,000 ft (3 km) | up to 10,000 ft (3 km) |
| Acoustic | Power: 37.9 dB, Pressure: 31.8 dB | Power: 40.4 dB, Pressure: 31.7 dB | Power: 0 dB, Pressure: 0 dB |

| | Aruba 2530-48-PoE+ Switch (J9778A) | Aruba 2530-24-PoE+ Switch (J9779A) | Aruba 2530-8-PoE+ Switch (J9780A) |
|---|---|---|---|
| **Electrical characteristics** | | | |
| Frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Maximum heat dissipation | 170 BTU/hr (179.35 kJ/hr), (switch only: 170 BTU/hr; combined switch + max. PoE devices: 1505 BTU/hr) | 99 BTU/hr (104.45 kJ/hr), (switch only: 99 BTU/hr; combined switch + max. PoE devices: 809 BTU/hr) | 29 BTU/hr (30.6 kJ/hr), (switch only: 29 BTU/hr; combined switch + max. PoE devices: 262 BTU/hr) |
| AC voltage | 100–127/200–240 VAC | 100–127/200–240 VAC | 100–127/200–240 VAC |
| Current | 5.2/2.6 A | 2.8/1.4 A | 1.4 A |
| Maximum power rating | 441 W | 237 W | 76.7 W |
| Idle power | 37.5 W | 21.8 W | 5.8 W |
| PoE power | 382 W | 195 W | 67 W |
| Notes | Idle power is the actual power consumption 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. | 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. | 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. |
| **Safety** | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1 | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1 | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1 |
| **Emissions** | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A |
| **Immunity** | | | |
| Generic | EN 55024, CISPR 24 | EN 55024, CISPR 24 | EN 55024, CISPR 24 |
| EN | EN 55024, CISPR 24 | EN 55024, CISPR 24 | EN 55024, CISPR 24 |
| ESD | IEC 61000-4-2 | IEC 61000-4-2 | IEC 61000-4-2 |
| Radiated | IEC 61000-4-3 | IEC 61000-4-3 | IEC 61000-4-3 |
| EFT/Burst | IEC 61000-4-4 | IEC 61000-4-4 | IEC 61000-4-4 |
| Surge | IEC 61000-4-5 | IEC 61000-4-5 | IEC 61000-4-5 |
| Conducted | IEC 61000-4-6 | IEC 61000-4-6 | IEC 61000-4-6 |
| Power frequency magnetic field | IEC 61000-4-8 | IEC 61000-4-8 | IEC 61000-4-8 |
| Voltage dips and interruptions | IEC 61000-4-11 | IEC 61000-4-11 | IEC 61000-4-11 |
| Harmonics | EN 61000-3-2, IEC 61000-3-2 | EN 61000-3-2, IEC 61000-3-2 | EN 61000-3-2, IEC 61000-3-2 |
| Flicker | EN 61000-3-3, IEC 61000-3-3 | EN 61000-3-3, IEC 61000-3-3 | EN 61000-3-3, IEC 61000-3-3 |
| **Management** | IMC—Intelligent Management Center; 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<br>AirWave Network Management | IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB<br>AirWave Network Management | IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB<br>AirWave Network Management |
| **Notes** | IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required. | IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required. | IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required. |
| **Services** | Refer to the Hewlett Packard Enterprise website at **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. | Refer to the Hewlett Packard Enterprise website at **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. | Refer to the Hewlett Packard Enterprise website at **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. |

# Aruba 2530 Switch Series (continued)

## Specifications (continued)





| | Aruba 2530-48G Switch (J9775A) | Aruba 2530-24G Switch (J9776A) | Aruba 2530-8G Switch (J9777A) |
|---|---|---|---|
| **I/O ports and slots** | 48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only<br>4 fixed Gigabit Ethernet SFP ports<br>1 dual-personality (RJ-45 or USB micro-B) serial console port | 24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only<br>4 fixed Gigabit Ethernet SFP ports<br>1 dual-personality (RJ-45 or USB micro-B) serial console port | 8 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only<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<br>1 dual-personality (RJ-45 or USB micro-B) serial console port |
| **Physical characteristics** | | | |
| Dimensions | 17.44(w) x 10.00(d) x 1.75(h) in (44.3 x 25.4 x 4.45 cm) (1U height) | 17.44(w) x 10.00(d) x 1.75(h) in (44.3 x 25.4 x 4.45 cm) (1U height) | 10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height) |
| Weight | 6.8 lb (3.08 kg) | 6.1 lb (2.77 kg) | 2.0 lb (0.91 kg) |
| **Memory and processor** | | | |
| Processor | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 3 MB dynamically allocated | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated |
| **Mounting and enclosure** | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting |
| **Performance** | | | |
| | IPv6 Ready Certified | IPv6 Ready Certified | IPv6 Ready Certified |
| 100 Mb Latency | < 7.4 µs (LIFO 64-byte packets) | < 7.4 µs (LIFO 64-byte packets) | < 7.4 µs (LIFO 64-byte packets) |
| 1000 Mb Latency | < 2.3 µs (LIFO 64-byte packets) | < 2.3 µs (LIFO 64-byte packets) | < 2.6 µs (LIFO 64-byte packets) |
| Throughput | up to 77.3 Mpps (64-byte packets) | up to 41.6 Mpps (64-byte packets) | up to 14.8 Mpps (64-byte packets) |
| Switching capacity | 104 Gb/s | 56 Gb/s | 20 Gb/s |
| MAC address table size | 16000 entries | 16000 entries | 16000 entries |
| **Environment** | | | |
| Operating temperature | 32°F to 113°F (0°C to 45°C) | 32°F to 113°F (0°C to 45°C) | 32°F to 113°F (0°C to 45°C) |
| Operating relative humidity | 15% to 95% @ 104°F (40°C), noncondensing | 15% to 95% @ 104°F (40°C), noncondensing | 15% to 95% @ 104°F (40°C), noncondensing |
| Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) |
| Nonoperating/Storage relative humidity | 15% to 90% @ 149°F (65°C), noncondensing | 15% to 90% @ 149°F (65°C), noncondensing | 15% to 90% @ 149°F (65°C), noncondensing |
| Altitude | up to 10,000 ft (3 km) | up to 10,000 ft (3 km) | up to 10,000 ft (3 km) |
| Acoustic | Power: 34.5 dB, Pressure: 31.0 dB | Power: 34.0 dB, Pressure: 26.4 dB | Power: 0 dB, Pressure: 0 dB |

| | Aruba 2530-48G Switch (J9775A) | Aruba 2530-24G Switch (J9776A) | Aruba 2530-8G Switch (J9777A) |
|---|---|---|---|
| **Electrical characteristics** | | | |
| Frequency | 50/60 Hz<br>Achieved Miercom Certified Green Award | 50/60 Hz | 50/60 Hz |
| Maximum heat dissipation | 203 BTU/hr (214.17 kJ/hr) | 164 BTU/hr (173.02 kJ/hr) | 63 BTU/hr (66.46 kJ/hr),<br>(switch only: 63 BTU/hr) |
| AC voltage | 100–127/200–240 VAC | 100–127/200–240 VAC | 100–127/200–240 VAC |
| Current | 1.2/0.7 A | .6/.4 A | 0.5 A |
| Maximum power rating | 59.5 W | 48.0 W | 18.6 W |
| Idle power | 29.5 W | 28.8 W | 13.6 W |
| Notes | 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. | 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. | 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. |
| **Safety** | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1 | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1 | UL 60950-1; CAN/CSA 22.2 No. 60950-1; EN 60825; IEC 60950-1; EN 60950-1 |
| **Emissions** | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A | FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A |
| **Immunity** | | | |
| Generic | EN 55024, CISPR 24 | EN 55024, CISPR 24 | EN 55024, CISPR 24 |
| EN | EN 55024, CISPR 24 | EN 55024, CISPR 24 | EN 55024, CISPR 24 |
| ESD | IEC 61000-4-2 | IEC 61000-4-2 | IEC 61000-4-2 |
| Radiated | IEC 61000-4-3 | IEC 61000-4-3 | IEC 61000-4-3 |
| EFT/Burst | IEC 61000-4-4 | IEC 61000-4-4 | IEC 61000-4-4 |
| Surge | IEC 61000-4-5 | IEC 61000-4-5 | IEC 61000-4-5 |
| Conducted | IEC 61000-4-6 | IEC 61000-4-6 | IEC 61000-4-6 |
| Power frequency magnetic field | IEC 61000-4-8 | IEC 61000-4-8 | IEC 61000-4-8 |
| Voltage dips and interruptions | IEC 61000-4-11 | IEC 61000-4-11 | IEC 61000-4-11 |
| Harmonics | EN 61000-3-2, IEC 61000-3-2 | EN 61000-3-2, IEC 61000-3-2 | EN 61000-3-2, IEC 61000-3-2 |
| Flicker | EN 61000-3-3, IEC 61000-3-3 | EN 61000-3-3, IEC 61000-3-3 | EN 61000-3-3, IEC 61000-3-3 |
| **Management** | IMC—Intelligent Management Center; 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<br>AirWave Network Management | IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB<br>AirWave Network Management | IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB<br>AirWave Network Management |
| **Notes** | IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required. | IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required. | IEEE 802.3az applies to Gigabit models only; IEEE 802.3at and IEEE 802.3af apply to PoE+ models only. When using SFPs with this product, SFPs with revision "B" or later (product number ends with the letter "B" or later, e.g., J4858B, J4859C) are required. |
| **Services** | Refer to the Hewlett Packard Enterprise website at **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. | Refer to the Hewlett Packard Enterprise website at **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. | Refer to the Hewlett Packard Enterprise website at **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. |

# Aruba 2530 Switch Series (continued)

## Specifications (continued)







| | Aruba 2530-48 Switch (J9781A) | Aruba 2530-24 Switch (J9782A) | Aruba 2530-8 Switch (J9783A) |
|---|---|---|---|
| **I/O ports and slots** | 48 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full<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<br>1 dual-personality (RJ-45 or USB micro-B) serial console port | 24 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full<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<br>1 dual-personality (RJ-45 or USB micro-B) serial console port | 8 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Media Type: Auto-MDIX; Duplex: half or full<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<br>1 dual-personality (RJ-45 or USB micro-B) serial console port |
| **Physical characteristics** | | | |
| Dimensions | 17.4(w) x 9.7(d) x 1.75(h) in (44.2 x 24.64 x 4.45 cm) (1U height) | 17.4(w) x 9.7(d) x 1.75(h) in (44.2 x 24.64 x 4.45 cm) (1U height) | 10(w) x 6.28(d) x 1.75(h) in (25.4 x 15.95 x 4.45 cm) (1U height) |
| Weight | 6.3 lb (2.86 kg) | 5.7 lb (2.59 kg) | 1.8 lb (0.82 kg) |
| **Memory and processor** | | | |
| Processor | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 3 MB dynamically allocated | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated |
| **Mounting and enclosure** | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting |
| **Performance** | | | |
| | IPv6 Ready Certified | IPv6 Ready Certified | IPv6 Ready Certified |
| 100 Mb Latency | < 6.6 µs (LIFO 64-byte packets) | < 1.7 µs (LIFO 64-byte packets) | < 1.3 µs (LIFO 64-byte packets) |
| 1000 Mb Latency | < 2.2 µs (LIFO 64-byte packets) | < 1.1 µs (LIFO 64-byte packets) | < 1.3 µs (LIFO 64-byte packets) |
| Throughput | up to 13 Mpps (64-byte packets) | up to 9.5 Mpps (64-byte packets) | up to 4.1 Mpps (64-byte packets) |
| Switching capacity | 17.6 Gb/s | 12.8 Gb/s | 5.6 Gb/s |
| MAC address table size | 16000 entries | 16000 entries | 16000 entries |
| **Environment** | | | |
| Operating temperature | 32°F to 113°F (0°C to 45°C) | 32°F to 113°F (0°C to 45°C) | 32°F to 113°F (0°C to 45°C) |
| Operating relative humidity | 15% to 95% @ 104°F (40°C), noncondensing | 15% to 95% @ 104°F (40°C), noncondensing | 15% to 95% @ 104°F (40°C), noncondensing |
| Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) |
| Nonoperating/Storage relative humidity | 15% to 90% @ 149°F (65°C), noncondensing | 15% to 90% @ 149°F (65°C), noncondensing | 15% to 90% @ 149°F (65°C), noncondensing |
| Altitude | up to 10,000 ft (3 km) | up to 10,000 ft (3 km) | up to 10,000 ft (3 km) |
| Acoustic | Power: 0 dB, Pressure: 0 dB | Power: 0 dB, Pressure: 0 dB | Power: 0 dB, Pressure: 0 dB |

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

# Aruba 2530 Switch Series (continued)

## Specifications (continued)

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

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

# Aruba 2530 Switch Series (continued)

## Specifications (continued)

| |  |  |  |
|---|---|---|---|
| | **Aruba 2530-48G-2SFP+ Switch (J9855A)** | **Aruba 2530-24G-2SFP+ Switch (J9856A)** | **Aruba 2530-8-PoE+ Internal PS Switch (JL070A)** |
| **I/O ports and slots** | 48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only<br>2 SFP+ fixed 1000/10000 SFP+ ports<br>1 dual-personality (RJ-45 or USB micro-B) serial console port | 24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only<br>2 SFP+ fixed 1000/10000 SFP+ ports<br>1 dual-personality (RJ-45 or USB micro-B) serial console port | 8 RJ-45 autosensing 10/100 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3at PoE+); Media Type: Auto-MDIX; Duplex: half or full 2 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10BASE-T; IEEE 802.3u Type 100BASE-TX; IEEE 802.3ab 1000BASE-T Gigabit Ethernet) or as a SFP slot (for use with SFP transceivers) ports<br>1 dual-personality (RJ-45 or USB micro-B) serial console port |
| **Physical characteristics** | | | |
| Dimensions | 17.44(w) x 10.00(d) x 1.75(h) in (44.3 x 25.4 x 4.45 cm) (1U height) | 17.44(w) x 10.00(d) x 1.75(h) in (44.3 x 25.4 x 4.45 cm) (1U height) | 10(w) x 9.68(d) x 1.75(h) in (25.4 x 24.59 x 4.45 cm) (1U height) |
| Weight | 7.1 lb (3.08 kg) | 6.2 lb (2.81 kg) | 4.65 lb (2.11 kg) |
| **Memory and processor** | | | |
| Processor | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 3 MB dynamically allocated | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated | ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 1.5 MB dynamically allocated |
| **Mounting and enclosure** | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting | Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); Horizontal surface mounting; Wall mounting |
| **Performance** | | | |
| | IPv6 Ready Certified | IPv6 Ready Certified | IPv6 Ready Certified |
| 100 Mb Latency | < 7.3 µs (LIFO 64-byte packets) | < 7.3 µs (LIFO 64-byte packets) | < 1.3 µs (LIFO 64-byte packets) |
| 1000 Mb Latency | < 2.7 µs (LIFO 64-byte packets) | < 2.7 µs (LIFO 64-byte packets) | < 1.3 µs (LIFO 64-byte packets) |
| 10 Gb/s Latency | < 4.0 µs (LIFO 64-byte packets) | < 2.2 µs (LIFO 64-byte packets) | |
| Throughput | 101 Mpps (64-byte packets) | 65.4 Mpps (64-byte packets) | up to 4.1 Mpps (64-byte packets) |
| Switching capacity | 136 Gb/s | 88 Gb/s | 5.6 Gbps |
| MAC address table size | 16000 entries | 16000 entries | 16000 entries |
| **Environment** | | | |
| Operating temperature | 32°F to 113°F (0°C to 45°C) | 32°F to 113°F (0°C to 45°C) | 32°F to 113°F (0°C to 45°C) |
| Operating relative humidity | 15% to 95% @ 104°F (40°C), noncondensing | 15% to 95% @ 104°F (40°C), noncondensing | 15% to 95% @ 104°F (40°C), noncondensing |
| Nonoperating/Storage temperature | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) | -40°F to 158°F (-40°C to 70°C) |
| Nonoperating/Storage relative humidity | 15% to 90% @ 149°F (65°C), noncondensing | 15% to 90% @ 149°F (65°C), noncondensing | 15% to 90% @ 149°F (65°C), noncondensing |
| Altitude | up to 10,000 ft (3 km) | up to 10,000 ft (3 km) | up to 10,000 ft (3 km) |
| Acoustic | Power: 32.2 dB, Pressure: 25.6 dB | Power: 29.4 dB, Pressure: 22.3 dB | Power: 0 dB, Pressure: 0 dB |

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

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

| | | | |
|---|---|---|---|
| **Denial of service protection** | | Network DoS Filter | |
| **Device management** | RFC 1591 DNS (client)<br>SSHv1/SSHv2 Secure Shell | RFC 2576 (Coexistence between SNMP V1, V2, V3)<br>RFC 2579 (SMIv2 Text Conventions) | RFC 2580 (SMIv2 Conformance)<br>RFC 3416 (SNMP Protocol Operations v2)<br>RFC 3417 (SNMP Transport Mappings) |
| **General protocols** | IEEE 802.1D MAC Bridges<br>IEEE 802.1p Priority<br>IEEE 802.1Q VLANs<br>IEEE 802.1s Multiple Spanning Trees<br>IEEE 802.1w Rapid Reconfiguration of Spanning Tree<br>IEEE 802.3 Type 10BASE-T<br>IEEE 802.3ab 1000BASE-T<br>IEEE 802.3ad Link Aggregation Control Protocol (LACP)<br>IEEE 802.3af Power over Ethernet<br>IEEE 802.3at Power over Ethernet Plus<br>IEEE 802.3az Energy Efficient Ethernet<br>IEEE 802.3x Flow Control | RFC 768 UDP<br>RFC 783 TFTP Protocol (revision 2)<br>RFC 792 ICMP<br>RFC 793 TCP<br>RFC 826 ARP<br>RFC 854 TELNET<br>RFC 868 Time Protocol<br>RFC 951 BOOTP<br>RFC 1350 TFTP Protocol (revision 2)<br>RFC 1542 BOOTP Extensions<br>RFC 1918 Address Allocation for Private Internet<br>RFC 2030 Simple Network Time Protocol (SNTP) v4<br>RFC 2131 DHCP | RFC 3411 An Architecture for Describing Simple Network Management Protocol (SNMP) Management Frameworks<br>RFC 3412 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)<br>RFC 3413 Simple Network Management Protocol (SNMP) Applications<br>RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)<br>RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)<br>RFC 3575 IANA Considerations for RADIUS<br>RFC 5905 NTP Client |
| **IP multicast** | | RFC 3376 IGMPv3 | |
| **IPv6** | RFC 1981 IPv6 Path MTU Discovery<br>RFC 2460 IPv6 Specification<br>RFC 2464 Transmission of IPv6 over Ethernet Networks<br>RFC 2925 Remote Operations MIB (Ping only)<br>RFC 3315 DHCPv6 (client only)<br>RFC 3484 Default Address Selection for IPv6<br>RFC 3513 IPv6 Addressing Architecture<br>RFC 3596 DNS Extension for IPv6 | RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6<br>RFC 4022 MIB for TCP<br>RFC 4113 MIB for UDP<br>RFC 4251 SSHv6 Architecture<br>RFC 4252 SSHv6 Authentication<br>RFC 4252 SSHv6 Transport Layer<br>RFC 4254 SSHv6 Connection<br>RFC 4291 IP Version 6 Addressing Architecture | RFC 4293 MIB for IP<br>RFC 4419 Key Exchange for SSH<br>RFC 4443 ICMPv6<br>RFC 4861 IPv6 Neighbor Discovery<br>RFC 4862 IPv6 Stateless Address Autoconfiguration<br>RFC 5095 Deprecation of Type 0 Routing Headers in IPv6 |
| **MIBs** | RFC 1155 Structure and Identification of Management Information for TCP/IP Internets<br>RFC 1212 Concise MIB Definitions<br>RFC 1213 MIB II<br>RFC 1493 Bridge MIB<br>RFC 2021 RMONv2 MIB | RFC 2578 Structure of Management Information Version 2 (SMIv2)<br>RFC 2579 Textual Conventions for SMIv2<br>RFC 2613 SMON MIB<br>RFC 2618 RADIUS Client MIB<br>RFC 2620 RADIUS Accounting Client MIB<br>RFC 2665 Ethernet-Like-MIB | RFC 2668 802.3 MAU MIB<br>RFC 2674 802.1p and IEEE 802.1Q Bridge MIB<br>RFC 2737 Entity MIB (Version 2)<br>RFC 2863 The Interfaces Group MIB<br>RFC 4836 Managed Objects for 802.3 Medium Attachment Units (MAU) |
| **Network management** | IEEE 802.1AB Link Layer Discovery Protocol (LLDP)<br>RFC 1098 A Simple Network Management Protocol (SNMP)<br>RFC 1155 Structure of Management Information<br>RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) | RFC 3411 SNMP Management Frameworks<br>RFC 3412 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)<br>RFC 3413 Simple Network Management Protocol (SNMP) Applications<br>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)<br>RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)<br>RFC 5424 Syslog Protocol<br>ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)<br>SNMPv1/v2c/v3 |

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

| | | | |
|---|---|---|---|
| **QoS/CoS** | RFC 2474 DiffServ precedence, with 4 queues per port | RFC 2475 DiffServ Architecture<br>RFC 2597 DiffServ Assured Forwarding (AF) | RFC 2598 DiffServ Expedited Forwarding (EF) |
| **Security** | IEEE 802.1X Port Based Network Access Control | RFC 1492 TACACS+<br>RFC 2138 RADIUS Authentication | RFC 2866 RADIUS Accounting<br>Secure Sockets Layer (SSL) |

## Aruba 2530 Switch Series accessories

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

## Aruba 2530 Switch Series accessories (continued)

| | |
|---|---|
| **Aruba 2530-24G-PoE+-2SFP+ Switch (J9854A)** | HPE X132 10G SFP+ LC SR Transceiver (J9150A)<br>HPE X132 10G SFP+ LC LR Transceiver (J9151A)<br>HPE X132 10G SFP+ LC LRM Transceiver (J9152A)<br>HPE X132 10G SFP+ LC ER Transceiver (J9153A)<br>HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable (J9281B)<br>HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (J9283B)<br>HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable (J9285B)<br>HPE X244 10G XFP to SFP+ 1m Direct Attach Copper Cable (J9300A)<br>HPE X244 10G XFP to SFP+ 3m Direct Attach Copper Cable (J9301A)<br>HPE X244 10G XFP to SFP+ 5m Direct Attach Copper Cable (J9302A) |
| **Aruba 2530-48G-2SFP+ Switch (J9855A)** | HPE X132 10G SFP+ LC SR Transceiver (J9150A)<br>HPE X132 10G SFP+ LC LR Transceiver (J9151A)<br>HPE X132 10G SFP+ LC LRM Transceiver (J9152A)<br>HPE X132 10G SFP+ LC ER Transceiver (J9153A)<br>HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable (J9281B)<br>HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (J9283B)<br>HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable (J9285B)<br>HPE X244 10G XFP to SFP+ 1m Direct Attach Copper Cable (J9300A)<br>HPE X244 10G XFP to SFP+ 3m Direct Attach Copper Cable (J9301A)<br>HPE X244 10G XFP to SFP+ 5m Direct Attach Copper Cable (J9302A) |
| **Aruba 2530-24G-2SFP+ Switch (J9856A)** | HPE X132 10G SFP+ LC SR Transceiver (J9150A)<br>HPE X132 10G SFP+ LC LR Transceiver (J9151A)<br>HPE X132 10G SFP+ LC LRM Transceiver (J9152A)<br>HPE X132 10G SFP+ LC ER Transceiver (J9153A)<br>HPE X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable (J9281B)<br>HPE X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable (J9283B)<br>HPE X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable (J9285B)<br>HPE X244 10G XFP to SFP+ 1m Direct Attach Copper Cable (J9300A)<br>HPE X244 10G XFP to SFP+ 3m Direct Attach Copper Cable (J9301A)<br>HPE X244 10G XFP to SFP+ 5m Direct Attach Copper Cable (J9302A) |

Products within this series have achieved sufficient scores in each of the rated criteria to achieve the Miercom Certified Green distinction Award. See the Specifications section of this series for more information. Products within this series are IPv6 Ready certified. See the Specifications section of this series for more information.

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