## Aruba 8320

# HPE Aruba 8320 Switch User Manual

Model: 8320

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the HPE Aruba 8320 L3 managed switch. It is designed to assist users in understanding the product's features and ensuring its proper and safe use. Please read this manual thoroughly before operating the device.

## 2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the equipment:

- Ensure proper grounding of the device.
- Do not operate the switch in environments with excessive heat, humidity, or dust.
- Use only the power supplies provided or specified by the manufacturer.
- Disconnect all power before performing any maintenance or installation procedures.
- Only qualified personnel should perform installation and servicing.

## 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- HPE Aruba 8320 Switch (32 x 40 Gigabit QSFP+ ports)
- 5 x Fan Modules
- 2 x Power Supply Units
- 2-post Rack Mounting Kit
- Power Cords (region specific)
- Console Cable

## 4. PHYSICAL DESCRIPTION

The HPE Aruba 8320 switch is a rack-mountable unit designed for high-density network environments. Its front panel features 32 QSFP+ ports for high-speed connectivity, along with management ports and status indicators.

**Figure 1:** Front view of the HPE Aruba 8320 Switch. The front panel displays 32 QSFP+ ports arranged in two rows, providing high-density 40 Gigabit connectivity. To the right, there are two RJ-45 management ports (console and out-of-band management) and status indicator LEDs for power, system, and port activity. The overall chassis is black with ventilation grilles on the top surface.

## 5. SETUP AND INSTALLATION

### 5.1 Rack Mounting

The HPE Aruba 8320 switch is designed for installation in a standard 19-inch equipment rack using the provided 2-post rack mounting kit.

1. Attach the rack ears to the sides of the switch using the supplied screws.
2. Secure the switch into the rack using appropriate rack screws. Ensure the switch is level and adequately supported.

### 5.2 Power Connection

The switch is equipped with two hot-swappable power supply units for redundancy.

1. Insert the power supply units into their respective bays at the rear of the switch.
2. Connect the power cords to the power supply units and then to a grounded AC power source.
3. Verify that the power supply LEDs illuminate, indicating proper power input.

### 5.3 Network Connections

Connect network cables to the QSFP+ ports as required for your network topology. Use appropriate transceivers and fiber optic cables for 40 Gigabit connections.

### 5.4 Initial Configuration Access

For initial configuration, connect a console cable from your management workstation to the console port on the switch. Alternatively, use the out-of-band management Ethernet port for network-based access after basic IP configuration.

## 6. OPERATING THE SWITCH

### 6.1 Power On/Off

Once power cords are connected, the switch will automatically power on. To power off, disconnect all power cords. For graceful shutdown, use the appropriate command-line interface (CLI) commands if available.

### 6.2 LED Indicators

Monitor the front panel LEDs to ascertain the operational status of the switch and its ports. Refer to the detailed LED guide in the full product documentation for specific interpretations.

- **Power LED:** Indicates power status.
- **System LED:** Indicates overall system health.
- **Port LEDs:** Indicate link status and activity for each QSFP+ port.

### 6.3 Management Interface

The switch can be managed via a Command Line Interface (CLI) accessible through the console port or SSH/Telnet over the management network. A web-based Graphical User Interface (GUI) may also be available for simplified configuration and monitoring.

## 7. MAINTENANCE

### 7.1 Fan Module Replacement

The switch features 5 hot-swappable fan modules. If a fan module fails, replace it promptly to ensure adequate cooling.

1. Identify the faulty fan module (usually indicated by an LED or system alert).
2. Carefully remove the faulty module by releasing its latch and pulling it out.
3. Insert a new, compatible fan module until it clicks into place.

### 7.2 Power Supply Replacement

The two power supply units are hot-swappable, allowing replacement without interrupting switch operation (provided the other PSU is functional).

1. Disconnect the power cord from the faulty power supply.
2. Release the power supply latch and carefully pull the unit out.
3. Insert a new, compatible power supply unit and connect its power cord.
4. Verify the power supply LED indicates normal operation.

### 7.3 Cleaning

Periodically clean the exterior of the switch and ventilation openings with a soft, dry cloth to prevent dust accumulation, which can impede airflow and cooling.

### 7.4 Firmware Updates

Regularly check the Aruba support website for the latest firmware updates. Applying updates can provide new features, performance enhancements, and security patches. Follow the specific instructions provided with each firmware release.

## 8. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For more complex problems, consult the full product documentation or contact technical support.

- **No Power:** Check power cord connections, power supply LEDs, and power source. Ensure both power supplies are correctly seated.
- **No Link on Port:** Verify cable connections, transceiver compatibility, and the status of the connected device. Check port configuration in the management interface.
- **System LED Error:** Consult the LED status guide in the comprehensive documentation to identify the specific error indicated by the system LED.
- **Network Connectivity Issues:** Verify IP configuration, VLAN settings, and routing tables. Check for cable faults or duplex mismatches.
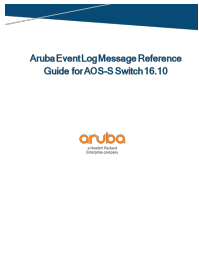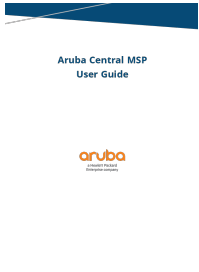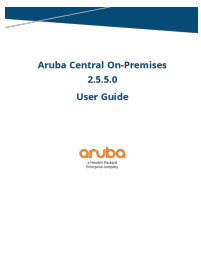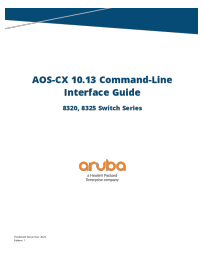
## 9. SPECIFICATIONS
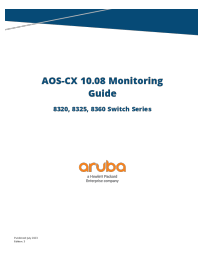
| Feature | Description |
| --- | --- |
| Model | HPE Aruba 8320 |
| Part Number | JL579A |
| Ports | 32 x 40 Gigabit QSFP+ |
| Switching Capacity | 2.5 Tbps |
| Forwarding Rate | 1,905 Mpps |
| Layer | L3 Managed |
| Fans | 5 (hot-swappable) |
| Power Supplies | 2 (hot-swappable) |
| Dimensions (H x W x D) | 43.5 mm x 438 mm x 515 mm (1.71" x 17.26" x 20.28") |
| Weight (Full Configuration) | 9.7 kg (21.27 lb) |
| Rack Mount | 2-post rack-mountable |
| UPC | 190017251448 |

## 10. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, and service agreements, please refer to the official Aruba website or contact your authorized Aruba reseller. Keep your purchase receipt and product serial number readily available when seeking support.

## Related Documents - 8320

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| Aruba Event Log Message Reference Guide for AOS-S Switch 16.10 | [Aruba Event Log Message Reference Guide for AOS-S Switch 16.10](#)<br>Comprehensive reference guide detailing event log messages for ArubaOS-S Switch 16.10, assisting network administrators in diagnosing and troubleshooting network infrastructure issues. |
| Aruba Central MSP User Guide | [Aruba Central MSP User Guide](#)<br>A comprehensive guide for Managed Service Providers (MSPs) on using Aruba Central for managing multiple tenant network accounts, including configuration, monitoring, and deployment models. |

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| **Aruba Central On-Premises 2.5.5.0 User Guide** | [Aruba Central On-Premises 2.5.5.0 User Guide: Setup, Configuration, and Management](#)<br>Comprehensive user guide for Aruba Central On-Premises version 2.5.5.0, detailing setup, configuration, management, monitoring, and troubleshooting of Aruba network devices. Covers APs, switches, and controllers. |
| **AOS-CX 10.13 Command-Line Interface Guide**<br>8320, 8325 Switch Series | [AOS-CX 10.13 Command-Line Interface Guide for Aruba 8320, 8325 Switch Series](#)<br>A comprehensive guide to the AOS-CX 10.13 Command-Line Interface (CLI) for Aruba 8320 and 8325 Switch Series. This manual details essential commands for network configuration, management, and troubleshooting. |
| **AOS-CX 10.08 Monitoring Guide**<br>8320, 8325, 8360 Switch Series | [AOS-CX 10.08 Monitoring Guide for 8320, 8325, 8360 Switch Series](#)<br>This guide provides comprehensive information on monitoring the AOS-CX network operating system for Aruba 8320, 8325, and 8360 Switch Series. It covers hardware monitoring through visual observation, LED indicators, boot commands, switch system and hardware commands, external storage, IP-SLA, mirroring, SNMP monitoring, and breakout cable support. |
| **Aruba Central User Guide** | [Aruba Central User Guide](#)<br>This comprehensive user guide provides detailed instructions for setting up and configuring devices with Aruba Central, including Instant APs, Aruba Switches, and Aruba SD-WAN Gateways. It covers key features, operational modes, getting started, administration, maintenance, and troubleshooting. |