

HP J9821A

HP Aruba 5406R zI2 Switch User Manual

Model: J9821A

1. INTRODUCTION

The HP Aruba 5406R zI2 Switch (Model J9821A) is a managed, rack-mountable networking device designed for enterprise environments. This modular switch provides advanced features for reliable and high-performance network connectivity. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your switch.

2. SAFETY INFORMATION

Please read all safety instructions before installing or operating the switch. Failure to comply with these instructions may result in injury or damage to the equipment.

- **Electrical Safety:** Ensure the power source matches the voltage requirements of the switch. Use only the provided power cord or an approved replacement. Disconnect power before servicing.
- **Grounding:** The switch must be properly grounded to prevent electrical shock.
- **Ventilation:** Maintain adequate airflow around the switch. Do not block ventilation openings.
- **Weight:** The switch is heavy (approximately 55 pounds). Use proper lifting techniques or assistance during installation to prevent injury.
- **Environment:** Operate the switch within the specified temperature and humidity ranges. Avoid exposure to moisture or extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged. If any items are missing or damaged, contact your vendor.

- HP Aruba 5406R zI2 Switch Chassis (J9821A)
- Rack-mounting kit
- Power cord (1 minimum power supply required, ordered separately)
- Documentation (this manual, safety and regulatory notices)

- *Note:* Network modules and power supplies are typically ordered separately and are not included with the base chassis.

4. PHYSICAL DESCRIPTION

The HP Aruba 5406R zl2 is a modular switch chassis designed for rack installation. It features multiple slots for various network modules and power supplies, allowing for flexible configuration and scalability.



Figure 1: Front view of the HP Aruba 5406R zl2 Switch chassis. This image displays the modular slots for line cards and the management module, along with ventilation grilles on the side.

4.1 Front Panel

- **Module Slots:** Six horizontal slots for installing network modules (line cards) and a dedicated slot for the management module.
- **Management Module:** Contains console port, USB ports, and Ethernet management port.
- **Status LEDs:** Indicators for power, system status, and module activity.

4.2 Rear Panel

- **Power Supply Bays:** Slots for redundant power supplies.
- **Fan Trays:** Removable fan trays for cooling.

5. SETUP AND INSTALLATION

5.1 Site Preparation

- Ensure the installation site meets environmental requirements (temperature, humidity).
- Verify adequate power availability and proper grounding.
- Ensure sufficient clearance for airflow and cable management.

5.2 Rack Mounting

1. Attach the provided rack-mounting brackets to the switch chassis using the supplied screws.
2. Carefully lift the switch and slide it into the rack, aligning the brackets with the rack posts.
3. Secure the switch to the rack using appropriate rack screws.

5.3 Installing Modules and Power Supplies

The 5406R zl2 is a modular switch. Network modules and power supplies must be installed into their respective slots.

1. **Power Supplies:** Slide the power supply unit(s) into the designated bays on the rear of the chassis until they click into place. Ensure at least one power supply is installed.
2. **Management Module:** Insert the management module into its dedicated slot on the front panel.
3. **Network Modules:** Insert network modules (line cards) into the available front panel slots. Ensure they are fully seated and secured.

5.4 Connecting Power

After all modules and power supplies are installed, connect the power cord(s) to the power supply unit(s) and then to a grounded AC power outlet. The system will begin its power-on self-test (POST).

6. OPERATING INSTRUCTIONS

6.1 Initial Power-On

Once power is connected, the switch will automatically power on. Observe the system status LEDs. A solid green System LED indicates successful POST and normal operation.

6.2 Accessing the Management Interface

The switch can be managed via several interfaces:

- **Console Port:** Connect a serial cable from your computer to the console port on the management module. Use a terminal emulator (e.g., PuTTY) with settings: 9600 baud, 8 data bits, no parity, 1 stop bit, no flow control.
- **Web Interface (GUI):** Once the switch has an IP address, you can access the web-based management interface by entering the switch's IP address into a web browser.
- **SSH/Telnet:** For command-line interface (CLI) access over the network, use SSH (recommended for security) or Telnet to the switch's IP address.

6.3 Basic Configuration

Upon first access, you will typically configure basic network settings such as:

- IP address and subnet mask
- Default gateway
- Administrator username and password
- System hostname
- Time and date (NTP settings)

Refer to the [ArubaOS-Switch Management and Configuration Guide](#) for detailed configuration instructions.

7. MAINTENANCE

7.1 Cleaning

Periodically inspect the switch for dust accumulation, especially on ventilation grilles and fan trays. Use a soft, dry cloth or

compressed air to clean the exterior. Do not use liquid cleaners.

7.2 Firmware Updates

Regularly check the HP Aruba support website for the latest firmware updates. Keeping the firmware current ensures optimal performance, security, and access to new features. Follow the instructions provided with the firmware package for safe updating.

7.3 Module Replacement

Network modules and power supplies are hot-swappable in most configurations. Consult the specific module documentation for replacement procedures. Always ensure proper ESD (Electrostatic Discharge) precautions are taken when handling modules.

8. TROUBLESHOOTING

This section provides solutions to common issues. For more complex problems, refer to the comprehensive troubleshooting guides available on the HP Aruba support website.

- **No Power:**
 - Check power cord connections to the switch and the power outlet.
 - Verify the power outlet is functional.
 - Ensure power supplies are fully seated in their bays.
- **System LED is Amber/Red:**
 - An amber or red System LED indicates a fault. Consult the LED status guide in the full documentation for specific error codes.
 - Check fan status and temperature.
 - Reseat or replace faulty modules/power supplies.
- **Cannot Access Management Interface:**
 - Verify network connectivity to the management port.
 - Check IP address configuration.
 - Ensure correct console cable and terminal emulator settings.
 - Reset the switch to factory defaults (*use with caution, this will erase all configurations*).
- **Port Link Down:**
 - Check the cable connection to the device.
 - Verify the connected device is powered on and functioning.
 - Check port configuration (speed, duplex, VLAN).
 - Try a different port or cable.

9. SPECIFICATIONS

Model	HP Aruba 5406R z12 (J9821A)
Brand	HP
Type	Managed, Modular, Rack-mountable Switch

RAM	4096 MB
Flash Memory Size	16 MB
Item Weight	55 pounds (24.95 kg)
Product Dimensions (LxWxH)	17.5 x 17.75 x 6.9 inches (44.45 x 45.09 x 17.53 cm)
Power Supply	1 minimum power supply required (ordered separately)
Date First Available	December 2, 2016

10. WARRANTY AND SUPPORT

10.1 Product Warranty

HP Aruba products typically come with a limited warranty. For specific warranty terms and conditions applicable to your region and product, please refer to the warranty statement included with your purchase or visit the official HP Aruba website.

10.2 Technical Support

For technical assistance, product documentation, software downloads, and troubleshooting resources, please visit the official HP Aruba support portal:

[Aruba Networks Support & Services](#)

When contacting support, have your product model number (J9821A) and serial number ready.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question