

HP JL320A

HP JL320A HPE Aruba 2930M 24-Port PoE+ Switch User Manual

Model: JL320A

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, maintenance, and troubleshooting of the HP JL320A HPE Aruba 2930M 24-Port PoE+ Switch. The Aruba 2930M series is a high-performance, Layer 3 access switch designed for enterprise edge, small and medium business, and branch office deployments. It offers Power over Ethernet Plus (PoE+) capabilities across 24 ports, simplifying the deployment of IP phones, wireless access points, and other PoE-powered devices.

2. SETUP

2.1 Unboxing and Inspection

Carefully remove the switch from its packaging. Inspect the device for any signs of physical damage. Ensure all expected components are present. **Note: Power supplies are not included with this unit and must be acquired separately.**

2.2 Physical Placement

Place the switch in a location that meets the following criteria:

- Adequate ventilation to prevent overheating.
- Away from direct sunlight, heat sources, and excessive dust.
- Within reach of power outlets and network cabling.
- If rack-mounting, ensure proper rack space and airflow.

2.3 Power Connection

1. Ensure compatible power supplies are securely installed in the designated slots on the rear of the switch.
2. Connect the power cords from the power supplies to appropriate AC power outlets.
3. Verify the power LED on the front panel illuminates, indicating the switch is receiving power.

2.4 Network Connections

Connect network cables (Ethernet) from your network infrastructure and end devices (e.g., computers, IP cameras, wireless

access points) to the 24 PoE+ ports on the front panel of the switch.



Figure 1: Front view of the HP JL320A switch, showing 24 PoE+ ports and uplink modules.

2.5 Initial Configuration

The Aruba 2930M supports various management options:

- **Console Port:** Connect a console cable to the console port for direct command-line interface (CLI) access.
- **Web Interface:** Access the switch's web-based management interface via a web browser after initial IP configuration.
- **Zero Touch Provisioning (ZTP):** For automated deployment in larger networks.
- **Aruba Central:** Cloud-based management for simplified operations.
- **Aruba ClearPass Policy Manager & Aruba Airwave:** For advanced policy management and on-premise network management.

3. OPERATING

3.1 Powering On/Off

Once power supplies are connected, the switch will typically power on automatically. To power off, disconnect the power cords from the power supplies. For controlled shutdowns, consult the advanced configuration guide for proper software-initiated shutdown procedures.

3.2 LED Indicators

The front panel features various LEDs to indicate the status of the switch and its ports:

- **Power LED:** Indicates the power status of the switch.
- **PoE LED:** Indicates the status of Power over Ethernet on the ports.
- **Link/Activity LEDs:** Located on each port, these indicate a network link and data activity.

3.3 Connecting Devices

The 24 PoE+ ports support a wide range of compatible devices, including:

- IP Cameras
- Desktop Computers
- Laptop Computers
- Network Printers
- Wireless Access Points



Figure 2: Rear view of the HP JL320A switch, highlighting the two power supply slots and ventilation.

4. MAINTENANCE

4.1 Cleaning

Periodically clean the exterior of the switch with a soft, dry cloth. Ensure ventilation openings are free from dust and obstructions to maintain proper airflow and prevent overheating.

4.2 Firmware Updates

Regularly check the official HP/Aruba support website for firmware updates. Keeping the switch's firmware current ensures optimal performance, security, and access to new features. Follow the provided instructions carefully when performing firmware upgrades.

4.3 Environmental Considerations

Maintain the operating environment within specified temperature and humidity ranges to ensure the longevity and reliable operation of the switch.

5. TROUBLESHOOTING

This section addresses common issues you might encounter.

5.1 No Power

- Verify power cords are securely connected to both the power supplies and the AC outlets.
- Ensure the power supplies are correctly seated in their slots.
- Check the power outlet for functionality.

5.2 No Link on Port

- Ensure the Ethernet cable is properly connected at both ends.
- Test with a different Ethernet cable.
- Verify the connected device is powered on and functioning correctly.
- Check the switch's port configuration (e.g., speed, duplex settings).

5.3 PoE Device Not Receiving Power

- Confirm the connected device is PoE compatible (802.3af or 802.3at).
- Check the PoE LED for the specific port.
- Ensure the switch's overall PoE power budget is not exceeded.
- Verify PoE settings for the port in the switch's configuration.

5.4 Network Connectivity Issues

- Verify IP address configuration on the switch and connected devices.
- Check routing tables if the issue is across different subnets.
- Perform basic network diagnostics like ping tests from the switch CLI.

6. SPECIFICATIONS

| Feature | Specification |
|---------|---------------|
|---------|---------------|

| | |
|----------------------------|----------------------------------|
| Brand | HP |
| Model Number | JL320A |
| Number of Ports | 24 |
| Interface Type | PoE+ |
| RAM | 1024 MB |
| Item Weight | 9.9 pounds (4.5 Kilograms) |
| Product Dimensions (LxWxH) | 13 x 2 x 18 inches |
| Compatible Devices | Camera, Desktop, Laptop, Printer |
| Included Components | Power Supply (not included) |

7. WARRANTY AND SUPPORT

As a renewed product, this HP JL320A HPE Aruba 2930M Switch is eligible for replacement or refund under the **Amazon Renewed Guarantee**. For specific warranty details and duration, please refer to the terms and conditions provided at the time of purchase.

For technical support, advanced configuration guides, or further assistance, please visit the official HPE Aruba support website or contact your authorized reseller.

8. SAFETY INFORMATION

- Always ensure proper grounding for the switch and connected equipment.
- Do not operate the switch in wet or damp conditions.
- Ensure adequate ventilation to prevent overheating.
- Only use power supplies and cables that meet the product's specifications.
- Do not attempt to open or repair the switch yourself. Refer all servicing to qualified personnel.