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› [HP Aruba 3810M 40G 8-Port Smart Rate PoE+ 1-Slot Switch \(JL076A\) User Manual](#)

HEWLETT PACKARD JL076A



1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of the HP Aruba 3810M 40G 8-Port Smart Rate PoE+ 1-Slot Switch (Model JL076A). Please read this manual thoroughly before operating the device to ensure proper functionality and safety.

2. PRODUCT OVERVIEW

The HP Aruba 3810M is a high-performance network switch designed for enterprise environments, offering advanced features such as Smart Rate PoE+ and a modular slot for flexible connectivity. This section details the physical components and indicators of the switch.

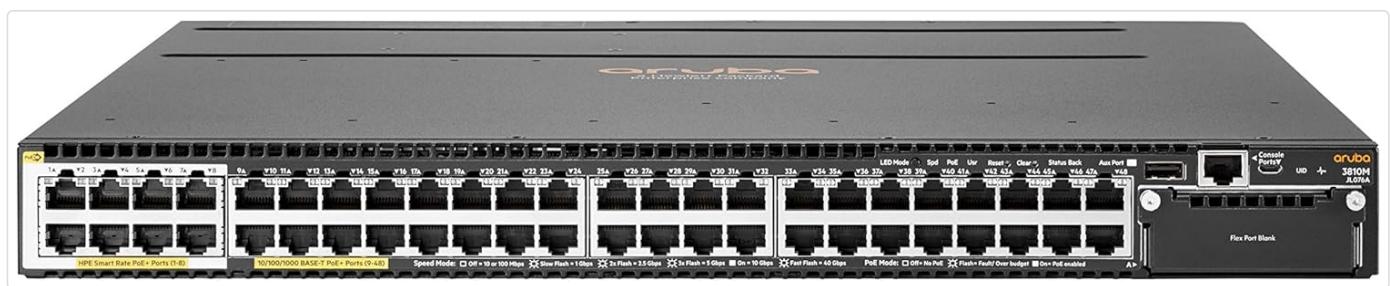


Figure 1: Front Panel of HP Aruba 3810M Switch

The front panel of the switch features various ports and LED indicators:

- HPE Smart Rate PoE+ Ports (1-8):** These 8 ports support multi-gigabit Ethernet speeds (1/2.5/5/10 Gbps) and Power over Ethernet Plus (PoE+) for connecting compatible devices.
- 10/100/1000 BASE-T PoE+ Ports (9-48):** These 40 ports provide standard Gigabit Ethernet connectivity with PoE+ capabilities.
- LED Mode Button:** Cycles through different LED display modes for port status.
- LED Indicators:**
 - Spd (Speed Mode):** Indicates port speed.

- Off: 10 or 100 Mbps
- Slow Flash: 1 Gbps
- 2x Flash: 2.5 Gbps
- 3x Flash: 5 Gbps
- On: 10 Gbps
- Fast Flash: 40 Gbps (for Flex Port modules)

- **PoE (PoE Mode):** Indicates Power over Ethernet status.
 - Off: No PoE
 - Flash: Fault/Over budget
 - On: PoE enabled
- **Usr (User LED):** User-configurable LED.
- **Reset Button:** Used for resetting the switch.
- **Clear Button:** Used for clearing certain configurations or states.
- **Status Back:** Indicates system status.
- **Aux Port:** Auxiliary port.

- **Console Ports:** Includes an RJ-45 console port for direct management access.
- **UID (Unit ID) Button:** Used to identify the switch in a rack.
- **Flex Port Blank:** A modular slot for installing optional Flex Port modules (e.g., 40G uplinks).

3. SETUP

3.1. Unpacking and Inspection

Carefully unpack the switch and all accessories. Inspect the contents for any signs of damage. If any components are missing or damaged, contact your vendor immediately.

3.2. Physical Installation

The HP Aruba 3810M switch is designed for rack mounting. Ensure the rack is stable and has adequate ventilation. Use the provided rack-mount kit to secure the switch in the rack. Leave sufficient space around the switch for airflow and cable management.

3.3. Power Connection

1. Connect the power cord to the AC power inlet on the rear of the switch.
2. Plug the other end of the power cord into a grounded electrical outlet.
3. Ensure the power source meets the switch's power requirements.

3.4. Initial Network Connection

For initial configuration, connect a console cable from your management workstation to the RJ-45 console port on the switch's front panel. Alternatively, connect an Ethernet cable from a management workstation to any of the switch's data ports for web-based or SSH/Telnet access after initial IP configuration.

4. OPERATING INSTRUCTIONS

4.1. Powering On and Off

- **Power On:** Once connected to power, the switch will automatically begin its boot sequence. Observe the system status LEDs for boot progress.
- **Power Off:** To power off the switch, disconnect the power cord from the electrical outlet. For controlled shutdown, it is recommended to save configurations and issue a shutdown command via the management interface if available.

4.2. Understanding LED Indicators

Refer to the "Product Overview" section (Figure 1) for a detailed explanation of the LED indicators and their meanings for port speed and PoE status. These LEDs provide quick visual feedback on the operational status of the switch and its ports.

4.3. Basic Configuration Access

The switch can be configured via a Command Line Interface (CLI) through the console port or via a web-based Graphical User Interface (GUI). Consult the comprehensive software configuration guide for detailed instructions on initial IP address assignment and network setup.

5. MAINTENANCE

5.1. Cleaning

Regularly clean the exterior of the switch with a soft, dry, lint-free cloth. Ensure the ventilation openings are free from dust and debris to maintain proper airflow. Do not use liquid or aerosol cleaners directly on the switch.

5.2. Firmware Updates

Periodically check the manufacturer's website for firmware updates. Keeping the switch's firmware up-to-date ensures optimal performance, security, and access to new features. Follow the instructions provided with the firmware update package carefully.

5.3. Environmental Considerations

Operate the switch within its specified environmental ranges for temperature and humidity. Avoid exposing the switch to direct sunlight, excessive heat, or moisture. Ensure proper grounding to prevent electrical interference.

6. TROUBLESHOOTING

6.1. No Power

- Verify the power cord is securely connected to both the switch and the electrical outlet.
- Check if the electrical outlet is functional by plugging in another device.
- Ensure the power supply unit (if external or modular) is correctly installed and functioning.

6.2. No Link on Port

- Check the Ethernet cable connection at both ends. Try a different cable.
- Verify the connected device is powered on and functioning correctly.
- Check the port's speed and duplex settings on both the switch and the connected device.
- Ensure the port is not administratively shut down.

6.3. PoE Not Functioning

- Check the PoE LED indicator for the port. A flashing LED indicates a fault or over-budget condition.
- Ensure the connected device is a PoE-compatible Powered Device (PD).

- Verify the switch's total PoE power budget is not exceeded.
- Check PoE settings for the specific port via the management interface.

6.4. Resetting the Switch

The Reset button on the front panel can be used for various reset functions. Consult the full product documentation for specific procedures, as improper use may erase configurations.

7. SPECIFICATIONS

Feature	Detail
Model Number	JL076A
Brand	HEWLETT PACKARD
Item Weight	19.35 pounds (8.78 kg)
Product Dimensions (LxWxH)	7.4 x 23.5 x 24.9 inches (18.8 x 59.7 x 63.2 cm)
Interface Type	PoE
Data Transfer Rate	40 Gigabits Per Second
RAM	2048 MB
Number of Ports	8 (Smart Rate PoE+) + 40 (10/100/1000 BASE-T PoE+)
Case Material	Plastic, Metal
Compatible Devices	Desktop (and other network devices)
UPC	888793596623

8. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, and service options, please refer to the official Hewlett Packard Enterprise (HPE) documentation or visit the HPE support website. Keep your purchase receipt and product serial number readily available when contacting support.

This product may be eligible for extended protection plans. Please consult your retailer for available options.