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> Aruba AP-635 Tri-Band 802.11ax Wireless Access Point User Manual

**HP R7J27A**

# Aruba AP-635 Tri-Band 802.11ax Wireless Access Point User Manual

Model: R7J27A

## INTRODUCTION

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This manual provides instructions for the installation, operation, and maintenance of the Aruba AP-635 Tri-Band 802.11ax Wireless Access Point. The AP-635 is designed for indoor use, offering high-performance wireless connectivity across 2.4 GHz, 5 GHz, and 6 GHz bands utilizing 802.11ax technology.



This image displays the front view of the Aruba AP-635 wireless access point. It is a circular, white device with the 'aruba' logo centrally placed. Below the logo, five small green LED indicators are visible, labeled 'SYS', '2GHz', '5GHz', and '6GHz', indicating system status and active frequency bands.

## SETUP

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1. **Unpacking:** Carefully remove the AP-635 from its packaging. Verify all components are present.
2. **Mounting:** The AP-635 is designed for ceiling mounting. Secure the access point using appropriate mounting hardware (sold separately) according to the manufacturer's guidelines. Ensure the mounting location provides optimal wireless coverage.
3. **Power Connection:** Connect an Ethernet cable from a Power over Ethernet (PoE) enabled switch or injector to one of the RJ-45 network ports on the AP-635. The device will power on automatically.
4. **Network Connection:** Connect the other RJ-45 network port to your network infrastructure if additional wired connectivity is required.
5. **Initial Configuration:** Refer to the Aruba documentation for initial network configuration, including IP address assignment and wireless network setup.

## OPERATING

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The Aruba AP-635 operates as a wireless access point, providing Wi-Fi connectivity to client devices. It supports the following key features:

- **Tri-Band Operation:** Simultaneous operation on 2.4 GHz, 5 GHz, and 6 GHz frequency bands for enhanced

capacity and reduced interference.

- **802.11ax (Wi-Fi 6E):** Utilizes the latest Wi-Fi standard for improved efficiency, higher speeds, and better performance in dense environments.
- **MIMO Technology:** Multiple-Input Multiple-Output technology enhances wireless signal reliability and data throughput.
- **Bluetooth 5:** Integrated Bluetooth for location services or IoT applications.
- **LED Indicators:** The front panel features LED indicators for System Status (SYS) and activity on the 2.4 GHz, 5 GHz, and 6 GHz bands. Consult the full product documentation for detailed LED behavior.

## MAINTENANCE

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Regular maintenance ensures optimal performance and longevity of your AP-635.

- **Cleaning:** Periodically clean the exterior of the access point with a soft, dry cloth. Do not use liquid cleaners or aerosols directly on the device.
- **Firmware Updates:** Keep the device firmware updated to the latest version. Firmware updates often include performance enhancements, security patches, and new features. Refer to the Aruba support website for update procedures.
- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges to prevent overheating or damage.

## TROUBLESHOOTING

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If you encounter issues with your AP-635, consider the following troubleshooting steps:

- **No Power:** Verify the Ethernet cable is securely connected to a functional PoE source. Check the PoE switch or injector status.
- **No Network Connectivity:** Ensure the Ethernet cable is properly connected to your network. Check network switch ports and cabling. Verify IP address configuration.
- **Poor Wireless Performance:**
  - Check for physical obstructions between the access point and client devices.
  - Ensure the AP-635 is mounted in an optimal location for coverage.
  - Verify that the correct frequency band (2.4 GHz, 5 GHz, or 6 GHz) is being used by client devices.
  - Check for interference from other wireless devices.
  - Update firmware to the latest version.
- **LED Indicators:** Consult the Aruba documentation for the meaning of different LED states to diagnose specific issues.

## SPECIFICATIONS

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Feature	Detail
Brand	HP (Aruba)
Model Number	R7J27A
Product Dimensions	19.69 x 19.69 x 11.02 inches

Feature	Detail
Wireless Standard	802.11ax (Wi-Fi 6E)
Frequency Bands	2.4 GHz, 5 GHz, 6 GHz
Data Rate	Up to 3.90 Gbit/s
Antenna	Internal
Network Ports	2 x Network (RJ-45)
Ethernet Speed	2.5 Gigabit Ethernet
PoE Support	Yes
Bluetooth	Bluetooth 5
Mounting	Ceiling Mountable
Material Type	Plastic
Intended Use	Indoor

## WARRANTY AND SUPPORT

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For detailed warranty information, technical support, and additional resources, please refer to the official HP/Aruba website or contact their customer service. Keep your purchase receipt for warranty claims.