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› [MikroTik Cap ax Gen 6 Wireless Access Point \(cAPGi-5HaxD2HaxD-US\) Instruction Manual](#)

MikroTik cAPGi-5HaxD2HaxD-US

MikroTik Cap ax Gen 6 Wireless Access Point

MODEL: cAPGi-5HaxD2HaxD-US

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1. Introduction

The MikroTik Cap ax Gen 6 Wireless Access Point (model cAPGi-5HaxD2HaxD-US) is designed for robust wireless networking in various environments, including offices, hotels, and crowded public areas. This device offers advanced features and performance suitable for demanding network requirements.



Image 1.1: MikroTik Cap ax Gen 6 Wireless Access Point. This image shows the circular access point, typically mounted on a ceiling, with its sleek design.

2. Package Contents

Verify that all items are present in your package:

- MikroTik Cap ax Gen 6 Wireless Access Point (cAPGi-5HaxD2HaxD-US)
- Power Supply Unit (PSU)
- PoE Injector
- Mounting Kit (for ceiling or wall installation)
- Ethernet Cable (Wire)
- Quick Start Guide

3. Key Features

The MikroTik Cap ax Gen 6 Access Point offers a range of features designed for high-performance wireless

connectivity:

- **Modern Quad-Core CPU:** Provides robust processing power for efficient network management.
- **1GB RAM:** Ensures smooth operation and handling of multiple client connections.
- **Dual Gigabit Ethernet Ports:** Two Ethernet ports for flexible network connectivity, supporting both PoE-IN and PoE-OUT.
- **Wi-Fi 6 (802.11ax) Wireless:** Supports the latest Wi-Fi standard for faster speeds and improved efficiency on both 2.4GHz and 5GHz bands.
- **High Gain Antennas:** Designed for extended coverage and strong signal penetration.
- **Advanced Security Protocols:** Includes WPA3-EAP-192 and OWE for enhanced wireless network security.
- **Power over Ethernet (PoE):** Supports PoE for simplified installation and power delivery over a single Ethernet cable.
- **Versatile Mounting:** Compatible with standard cAP XL mounts for easy ceiling or wall installation.

4. Setup and Installation

Follow these steps to set up your MikroTik Cap ax Gen 6 Access Point:

4.1. Mounting the Device

The cAP ax can be mounted on a ceiling or wall using the provided mounting kit. The mounting mechanism is compatible with cAP XL mounts. Ensure the chosen location provides optimal wireless coverage and is within reach of an Ethernet cable for power and data.

Steps:

1. Secure the mounting bracket to your desired ceiling or wall location using appropriate screws.
2. Align the access point with the bracket and twist to lock it into place.

4.2. Powering the Device

The device can be powered using either the included Power Supply Unit (PSU) or Power over Ethernet (PoE) via the PoE injector.

- **Using PoE:** Connect an Ethernet cable from your network switch (or the included PoE injector) to the ETH1 port on the access point. The ETH1 port supports PoE-IN.
- **Using PSU:** Connect the included power adapter to the DC jack on the access point and plug it into a power outlet.

The ETH2 port supports PoE-OUT, allowing you to power another PoE-compatible device.

4.3. Initial Configuration

Upon first power-up, the device will boot with default settings. MikroTik devices typically use RouterOS for configuration, accessible via a web interface or the WinBox utility. Refer to the MikroTik documentation for detailed configuration steps, especially for advanced setups like VLANs or CAPsMAN.

Important: It is recommended to update the device firmware before proceeding with extensive configuration, especially if using CAPsMAN.

Product Overview and Setup Video



Video 4.1: This video provides a visual overview of the MikroTik Cap ax, highlighting its features such as high gain antennas, dual Gigabit Ethernet ports with PoE-IN/OUT, Wi-Fi 6 capabilities (2.4GHz and 5GHz), and security protocols (WPA3-EAP-192, OWE). It also demonstrates the mounting compatibility with cAP XL and the power connection using the included PSU and PoE injector.

5. Operation

Once configured, the MikroTik Cap ax Gen 6 Access Point will broadcast your wireless networks. Clients can connect to these networks using their Wi-Fi enabled devices.

- **LED Indicator:** The device features an LED indicator that shows its operational status. A steady blue light typically indicates normal operation.
- **Wireless Connectivity:** Ensure your client devices support Wi-Fi 6 (802.11ax) to take full advantage of the access point's capabilities. The device also supports older Wi-Fi standards for backward compatibility.
- **Network Management:** For ongoing management, use the RouterOS web interface or WinBox. This allows for monitoring network traffic, adjusting wireless settings, and managing connected clients.

6. Technical Specifications

Feature	Specification
Model Number	cAPGi-5HaxD2HaxD-US
Brand	MikroTik
Wireless Standard	802.11ax (Wi-Fi 6)
Frequency Band Class	Dual-Band (2.4GHz and 5GHz)
CPU	Modern Quad-Core
RAM	1GB
Ethernet Ports	2x Gigabit Ethernet (ETH1: PoE-IN, ETH2: PoE-OUT)
Connectivity Technology	Ethernet
Special Feature	Access Point Mode, WPS (Note: WPS functionality may vary based on RouterOS configuration)
Security Protocols	WPA3-EAP-192, OWE
Power Input	PoE or DC Adapter (PSU included)
Package Dimensions	14.76 x 10.87 x 2.4 inches
Item Weight	2.42 pounds
Color	Multicolor (typically white/light gray)
Recommended Uses	Business environments requiring robust wireless coverage.

7. Troubleshooting

If you encounter issues with your MikroTik Cap ax Gen 6 Access Point, consider the following common troubleshooting steps:

- **No Power:**
 - Ensure the power adapter is securely connected to both the device and a working power outlet.

- If using PoE, verify that the Ethernet cable is connected to the ETH1 port and the PoE injector/switch is providing power.
- Check the power LED indicator on the device.
- **No Wireless Signal:**
 - Confirm the device is powered on and the LED indicator is active.
 - Access the RouterOS configuration interface to ensure wireless interfaces are enabled and configured correctly (SSID, security settings).
 - Check for any physical obstructions or interference sources that might be blocking the signal.
- **Slow Speeds or Intermittent Connection:**
 - Verify that the device firmware is up to date.
 - Check for channel interference using a Wi-Fi analyzer tool and adjust wireless channels if necessary.
 - Ensure client devices are within optimal range of the access point.
 - Review RouterOS logs for any error messages or performance warnings.
- **Cannot Access Configuration Interface:**
 - Ensure your computer is connected to the same network as the access point.
 - Verify the IP address of the access point and your computer's network settings.
 - Try accessing the device via WinBox, which can often connect even if the web interface is unreachable.
 - If all else fails, a factory reset may be necessary (refer to MikroTik documentation for the reset procedure).

8. Warranty and Support

MikroTik products typically come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official MikroTik website. Technical support can be accessed through MikroTik's support channels, including their forums and knowledge base, for assistance with configuration, troubleshooting, and advanced features.

For the latest drivers, software, and documentation, please visit the official MikroTik website <https://mikrotik.com>