

MikroTik RBwAPG-60ad

MikroTik Wireless Wire RBwAPG-60ad Kit: 60 GHz Wireless Link Instruction Manual

Model: RBwAPG-60ad

1. INTRODUCTION

The MikroTik Wireless Wire RBwAPG-60ad kit provides a high-speed 60 GHz wireless link designed to replace traditional Gigabit Ethernet cables. This kit offers a secure, AES encrypted wireless connection, unaffected by crowded 2.4 GHz or 5 GHz Wi-Fi spectrums. It is suitable for establishing stable and fast links over distances of 200 meters or more, delivering 1 Gbit full duplex performance.

This manual provides detailed instructions for the installation, configuration, and maintenance of your Wireless Wire RBwAPG-60ad kit.

2. PACKAGE CONTENTS

The MikroTik Wireless Wire RBwAPG-60ad kit includes the following components:

- Two (2) wAP60G devices (pre-paired for immediate use).
- Wall mounting kit.
- Straps for pole mounting.
- Two (2) table stands for indoor use.
- Power adapters (not explicitly listed in feature bullets but implied by "PoE in" and "POWER 12-57 V" on device).



Image 2.1: Retail packaging of the MikroTik Wireless Wire kit, showing two wAP60G devices and branding.

3. SETUP AND INSTALLATION

The Wireless Wire kit consists of two pre-paired wAP60G devices. One device acts as the Access Point (AP) and the other as the Station (STA). They are designed for easy deployment.

3.1 Device Overview



Image 3.1: Two MikroTik wAP60G devices shown on their included table stands, ready for deployment.



Image 3.2: Detailed view of the wAP60G device's underside, showing the Ethernet/PoE In port, power input, reset button, and mounting points.

- **ETH/PoE In Port:** Gigabit Ethernet port that also supports 802.3af/at Power over Ethernet (PoE) input.

- **POWER 12-57 V:** DC power input jack for direct power supply.
- **RESET Button:** Used for resetting the device to factory defaults or entering RouterBOOT loader mode.
- **PWR LED:** Power indicator.
- **USR LED:** User configurable LED, often indicates link status.

3.2 Mounting Options

The wAP60G devices can be mounted in various ways:

- **Table Stand:** For indoor, temporary, or desktop use. Simply attach the device to the provided stands.
- **Wall Mounting:** Use the included wall mounting kit. Ensure the mounting surface is stable and can support the device.
- **Pole Mounting:** Utilize the provided straps to secure the device to a pole. Ensure the device is oriented correctly for optimal signal alignment.

Important: For optimal performance, ensure a clear line of sight between the two wAP60G devices. Any obstructions (trees, buildings, etc.) can significantly degrade the 60 GHz signal.

3.3 Powering On

Connect an Ethernet cable from your network device (e.g., router, switch) to the ETH/PoE In port of the wAP60G. If your network device supports 802.3af/at PoE, the wAP60G will power on automatically.

Alternatively, use a compatible 12-57V DC power adapter connected to the POWER port.

Once powered, the PWR LED should illuminate, indicating the device is receiving power.

4. OPERATING INSTRUCTIONS

The Wireless Wire kit is pre-configured to establish a link automatically. Once both devices are powered on and have a clear line of sight, they will attempt to form a 60 GHz wireless bridge.

4.1 Link Establishment

After powering on, allow a few minutes for the devices to boot and establish the wireless link. The USR LED may change its state to indicate link activity or status. Refer to the MikroTik RouterOS documentation for specific LED behavior if further diagnostics are needed.

The 60 GHz link is highly directional. Precise alignment of the two devices is crucial for achieving the advertised 1 Gbit full duplex speed and maintaining a stable connection. Minor adjustments to the device's angle may be necessary during installation.

4.2 Basic Configuration (Advanced Users)

While the kit is pre-configured, advanced users can access the RouterOS interface for detailed configuration. This typically involves connecting a computer directly to one of the wAP60G devices via Ethernet and accessing its web interface (WinBox or web browser). Default IP addresses and login credentials can be found in the MikroTik documentation or on the device itself.

Note: Modifying default configurations without proper knowledge may disrupt the wireless link. It is recommended to back up configurations before making changes.

5. MAINTENANCE

The MikroTik Wireless Wire RBwAPG-60ad kit requires minimal maintenance.

- **Physical Inspection:** Periodically check the physical mounting and cabling for any signs of wear or damage, especially in outdoor installations.
- **Firmware Updates:** MikroTik regularly releases RouterOS firmware updates. It is recommended to keep the device firmware updated for security and performance improvements. Updates can be performed via the RouterOS interface.
- **Cleaning:** Keep the device free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.

6. TROUBLESHOOTING

- **No Power:**
 - Ensure the Ethernet cable is securely connected to the ETH/PoE In port.
 - Verify that the PoE source (switch or injector) is active and providing power.
 - If using a DC adapter, ensure it is correctly plugged in and the power outlet is functional.
 - Check the PWR LED for illumination.
- **No Wireless Link:**
 - Confirm both devices are powered on.
 - Ensure there is a clear, unobstructed line of sight between the two wAP60G units.
 - Adjust the physical alignment of the devices slightly to optimize the 60 GHz signal.
 - Check the USB LED for link status indications.
 - If the devices were previously configured, consider resetting them to factory defaults using the RESET button (refer to MikroTik documentation for the reset procedure).
- **Slow Performance:**
 - Re-check device alignment for optimal signal strength.
 - Ensure connected Ethernet cables are Gigabit-capable and functioning correctly.
 - Verify that there are no physical obstructions that have appeared since installation.

For more detailed troubleshooting and advanced diagnostics, consult the official MikroTik documentation and support resources.

7. SPECIFICATIONS

Brand	MikroTik
Model	RBwAPG-60ad
CPU Nominal Frequency	716 MHz
RAM	256 MB
Storage Size	16 MB
Ethernet Ports	1x 10/100/1000 Gigabit Ethernet
PoE Input	802.3af/at
DC Power Input	12-57 V

Wireless Standard	60 GHz (Wireless Wire)
Data Transfer Rate	1 Gbit Full Duplex
Operating Distance	200 meters or more (with clear line of sight)
Item Weight	60 Grams (per device)
UPC	680392657527, 708747434569

8. SAFETY INFORMATION

- Always follow local electrical codes and regulations when installing power.
- Ensure proper grounding if required by local regulations for outdoor installations.
- Do not operate the device if it is damaged or has exposed wiring.
- Keep the device away from water and excessive moisture.
- Only use power adapters and PoE injectors specified by MikroTik or compatible with 802.3af/at standards.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official MikroTik website. MikroTik provides extensive online documentation, forums, and support resources for their products.

Official MikroTik Website: <https://mikrotik.com/>