



Manuals.plus /

› AudioCodes /

› AudioCodes Mediant 1000B (M1KB-D2) User Manual

## AudioCodes M1KB-D2

# AudioCodes Mediant 1000B (M1KB-D2) User Manual

Model: M1KB-D2

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation of your AudioCodes Mediant 1000B (M1KB-D2) VoIP router. Please read this manual thoroughly before installation and use, and retain it for future reference. The Mediant 1000B is a compact, cost-effective, and high-performance VoIP media gateway designed for small to medium-sized businesses and branch offices.

## 2. SAFETY INFORMATION

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Observe the following safety precautions to prevent damage to the device and ensure user safety:

- Ensure the device is connected to a grounded power outlet.
- Do not expose the device to water, moisture, or extreme temperatures.
- Avoid blocking ventilation openings to prevent overheating.
- Only use the power adapter supplied with the device.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.

## 3. PACKAGE CONTENTS

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Verify that your package contains the following items:

- AudioCodes Mediant 1000B (M1KB-D2) Unit
- Power Adapter
- Ethernet Cable
- Quick Start Guide

If any items are missing or damaged, contact your vendor immediately.

## 4. PRODUCT OVERVIEW

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The AudioCodes Mediant 1000B (M1KB-D2) is a robust VoIP gateway. Familiarize yourself with its components:



Figure 1: Front view of the AudioCodes Mediant 1000B (M1KB-D2) VoIP router, showing status indicators and front panel ports.

### 4.1 Front Panel

- **Status LEDs:** Indicators for Power, System Status, WAN, LAN, and Voice Port activity.
- **Voice Ports:** Connect to traditional telephony equipment (e.g., PBX, PSTN lines).
- **Reset Button:** Used to restore factory default settings (requires a paperclip or similar tool).

### 4.2 Rear Panel

- **Power Input:** Connects to the provided power adapter.
- **Ethernet Ports (WAN/LAN):** Connect to your network infrastructure.
- **Console Port:** For direct serial connection for advanced configuration.

## 5. SETUP

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Follow these steps for initial installation:

1. **Placement:** Position the Mediant 1000B on a stable, flat surface, ensuring adequate ventilation. Avoid direct sunlight or heat sources.
2. **Connect Network Cables:**
  - Connect an Ethernet cable from your internet router/modem to the **WAN** port on the Mediant 1000B.
  - Connect an Ethernet cable from the **LAN** port on the Mediant 1000B to your local network switch or a computer for initial configuration.
3. **Connect Voice Lines (if applicable):** Connect your telephony equipment (e.g., PBX, analog phones) to the designated voice ports.
4. **Connect Power:** Plug the power adapter into the device's power input, then plug the adapter into a grounded electrical outlet. The Power LED should illuminate.
5. **Initial Boot-up:** Allow several minutes for the device to boot up. Observe the status LEDs for normal operation.
6. **Access Web Interface:** Open a web browser on a computer connected to the LAN port. Enter the default IP address (refer to the Quick Start Guide or device label for the specific IP, commonly 192.168.1.1 or 10.0.0.1) to access the configuration interface.

## 6. OPERATING THE DEVICE

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Once the device is set up, you can configure and monitor its operation through the web-based management interface.

### 6.1 Basic Configuration

- **Login:** Use the default username and password (typically "Admin" and "Admin" or similar, check your Quick Start Guide). Change these credentials immediately for security.
- **Network Settings:** Configure WAN and LAN settings, including IP addresses, subnet masks, and DNS servers, according to your network requirements.
- **VoIP Settings:** Configure SIP trunks, voice codecs, and dial plans to integrate with your VoIP service provider or IP PBX.

## 6.2 Monitoring

The web interface provides status pages to monitor:

- System status and resource utilization.
- Network connection status.
- Voice port status and call activity.
- System logs for troubleshooting.

## 7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Mediant 1000B.

- **Firmware Updates:** Periodically check the AudioCodes support website for new firmware versions. Update the firmware to benefit from new features, bug fixes, and security enhancements. Follow the instructions provided with the firmware package carefully.
- **Cleaning:** Keep the device clean and free of dust. Use a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Backup Configuration:** Regularly back up your device configuration settings through the web interface. This allows for quick restoration in case of a factory reset or device replacement.
- **Environmental Conditions:** Ensure the device operates within its specified temperature and humidity ranges.

## 8. TROUBLESHOOTING

This section addresses common issues you might encounter:

Problem	Possible Cause	Solution
Device does not power on.	No power, faulty power adapter.	Check power cable connection. Verify power outlet. Test with another power adapter if available.
Cannot access web interface.	Incorrect IP address, network cable issue, firewall.	Verify device IP address. Check Ethernet cable connection. Temporarily disable computer firewall. Ensure computer is on the same subnet.
No dial tone or calls failing.	VoIP configuration error, network connectivity, service provider issue.	Check VoIP settings (SIP registration, dial plan). Verify internet connectivity. Contact your VoIP service provider.
Slow network performance.	Network congestion, faulty cable, device overload.	Check network cables. Monitor network traffic. Restart the device.

If the problem persists after attempting these solutions, contact AudioCodes technical support.

## 9. SPECIFICATIONS

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Key technical specifications for the AudioCodes Mediant 1000B (M1KB-D2):

- **Brand:** AudioCodes
- **Model Number:** M1KB-D2
- **Connectivity Technology:** Bluetooth, Firewire, USB (*Note: These may refer to management or auxiliary ports, primary connectivity is Ethernet for VoIP gateway function*)
- **Security Protocol:** WEP, WPA-PSK, WPS
- **Operating System Support:** Linux, Mac OS X v10.4 Tiger, Windows XP Home Edition Service Pack 2 (*Note: These typically refer to client OS for management tools, not the device's internal OS*)
- **Special Feature:** WPS (Wi-Fi Protected Setup) (*Note: This feature is typically for Wi-Fi devices, and its relevance to a VoIP router like M1KB-D2 might be for an optional Wi-Fi module or a miscategorization in source data.*)
- **Manufacturer:** AUDIOCODES, INC.

## 10. WARRANTY AND SUPPORT

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AudioCodes products are covered by a limited warranty. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official AudioCodes website. For technical assistance, product documentation, and software downloads, please visit the AudioCodes support portal or contact your authorized reseller.

**Online Support:** [www.audiocodes.com/support](http://www.audiocodes.com/support)