

## WWZMDiB VHM-305

# WWZMDiB VHM-305 MP3 Lossless Decoders Module Instruction Manual

Model: VHM-305

## 1. INTRODUCTION

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The WWZMDiB VHM-305 MP3 Lossless Decoders Module is designed for audio playback from TF cards and U disks. It features an onboard mono amplifier for direct speaker connection and offers various control options for playback. This module can be integrated into microcontroller systems, such as those using Arduino IDE, for file reading and writing via its SPI interface.

## 2. PRODUCT FEATURES

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- Supports MP3 format playback with automatic playback upon power-on.
- Red LED indicator updates to show playback status.
- Supports U disk (tested up to 32GB) and TF card (tested up to 16GB) playback modes.
- Key operations for track switching (previous/next), volume control (up/down), play/pause, and mode selection.
- Allows setting 'single song' or 'full song' loop modes. Default is full song loop on power-up.
- Integrated 2W mono amplifier (up to 3W with 5V power supply) for direct speaker connection (recommended with 4Ω 3W speakers).
- MicroUSB interface for power supply, compatible with mobile power banks or USB chargers.
- Features speaker terminals for easy, solder-free wiring.

## 3. PACKAGE CONTENTS

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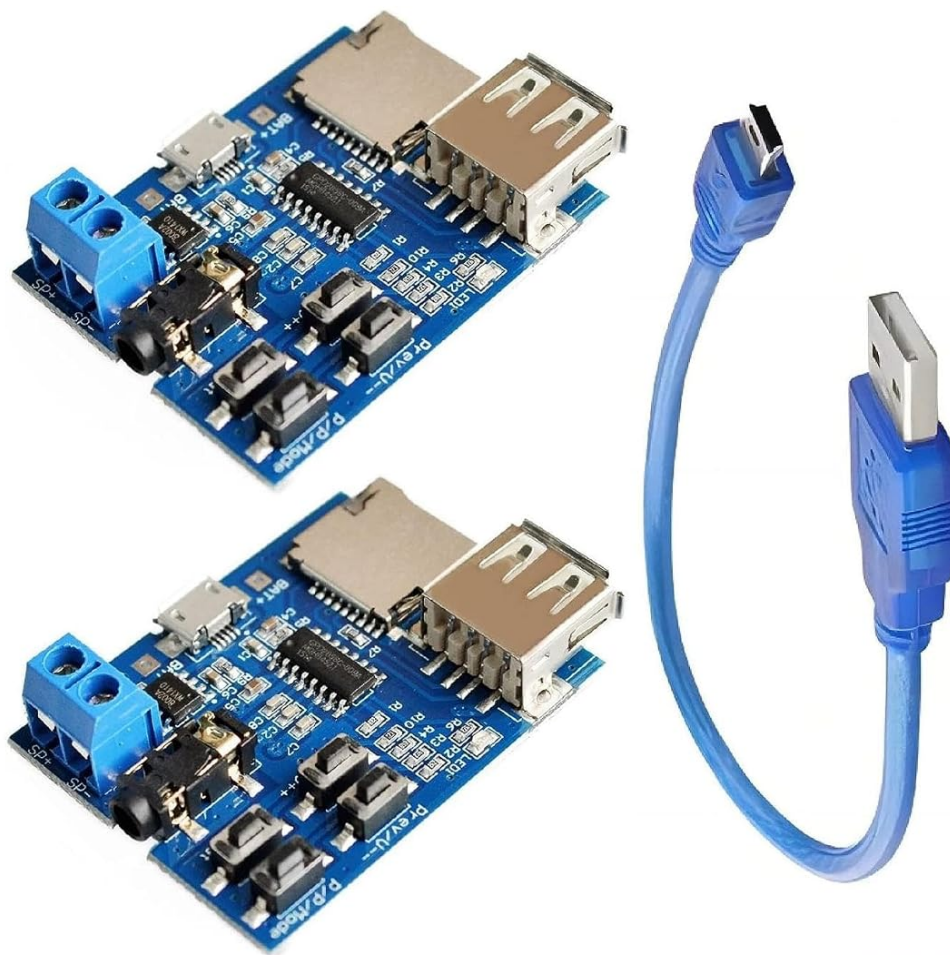
The package includes the following items:

- 2 x WWZMDiB VHM-305 MP3 Lossless Decoders Module
- 1 x 30cm USB Data Cable (Micro-B)

# Packaging includes:

2Pcs \* MP3 Lossless Decoders Module

1Pcs \* 30cm/11.8 in USB 2.0 Micro-B cable



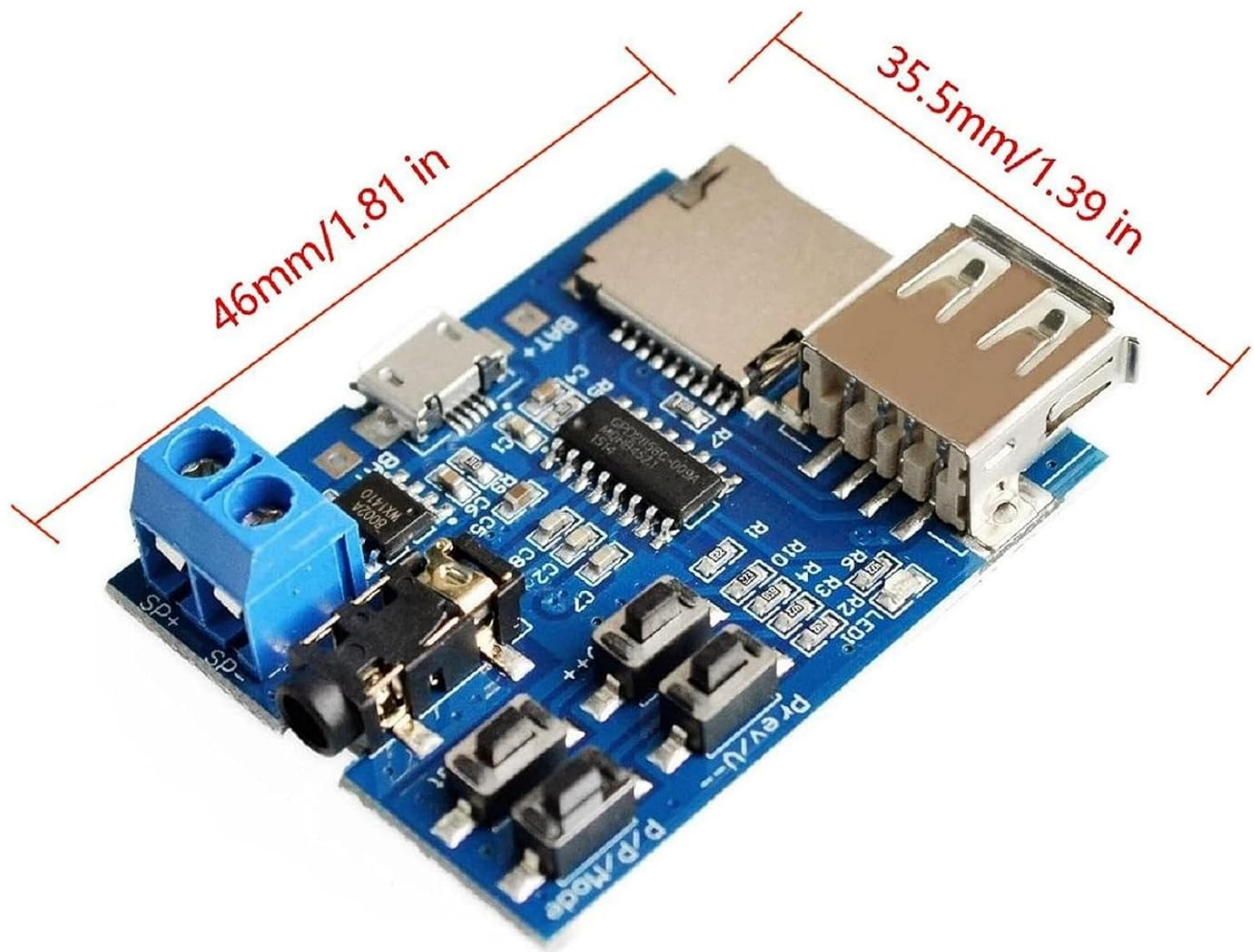
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Image: Contents of the product package, showing two decoder modules and a USB cable.

## 4. SPECIFICATIONS

|                    |                                                |
|--------------------|------------------------------------------------|
| Power Supply Range | 3.7V to 5.5V DC                                |
| Product Dimensions | 45mm x 36mm (approximately 1.77 x 1.42 inches) |
| Package Dimensions | 4.72 x 2.6 x 0.71 inches                       |
| Item Weight        | 1.58 ounces                                    |
| Amplifier Output   | 2W mono (up to 3W with 5V supply)              |
| Supported Storage  | TF Card (up to 16GB), U Disk (up to 32GB)      |

# Size:

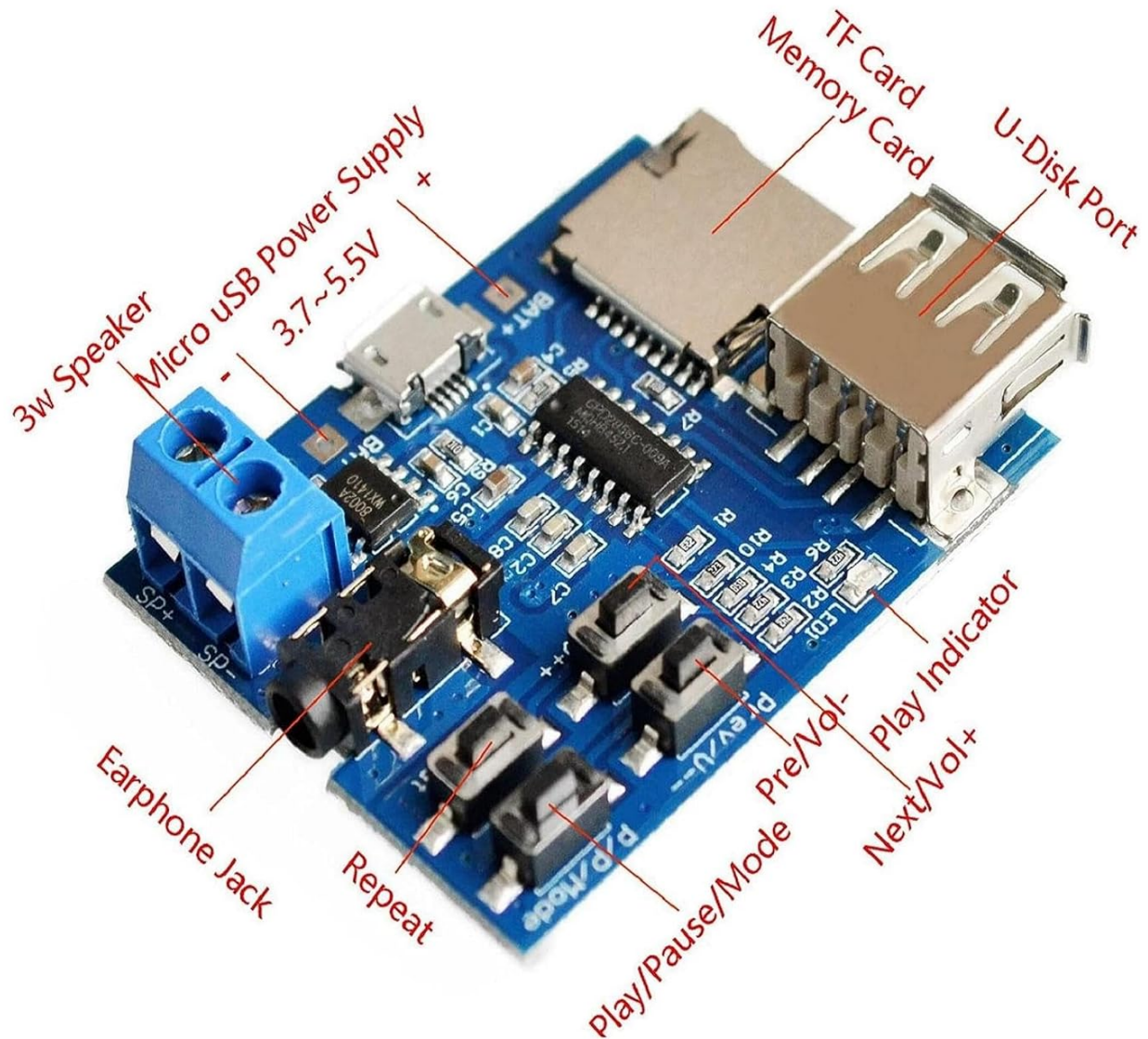


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Image: Dimensions of the VHM-305 module.

## 5. MODULE LAYOUT AND CONNECTIONS

# Product Show:



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Image: Detailed view of the VHM-305 module with key components labeled.

## Component Overview:

- **Micro USB Power Supply:** Input for 3.7V to 5.5V DC power.
- **BAT+ / BAT-:** Alternative power input terminals.
- **TF Card Slot:** For inserting a TF (Micro SD) memory card.
- **U-Disk Port:** For connecting a USB flash drive.
- **SP+ / SP-:** Speaker output terminals for direct connection to a 4Ω 3W speaker.
- **Earphone Jack:** 3.5mm audio output for headphones or external amplifier.
- **LED Indicator:** Red LED to show playback status.
- **Control Buttons:** For playback control (Prev/V--, Next/V++, P/P/Mode, Repeat).

## 6. SETUP INSTRUCTIONS

1. **Power Connection:** Connect a 3.7V to 5.5V DC power source to the Micro USB port using the provided USB cable, or directly to the BAT+ and BAT- terminals.
2. **Speaker Connection:** Connect a 4Ω 3W speaker to the SP+ and SP- terminals. Ensure correct polarity.
3. **Media Insertion:** Insert a TF card into the TF card slot or a U disk into the U-Disk port. The module defaults to TF card mode if a TF card is present. If not, it automatically switches to U disk mode.
4. **Important Note for U Disk:** When using a U disk, a 5V power supply is recommended, as some U disks may not function correctly with a 3.7V supply.

## 7. OPERATING INSTRUCTIONS

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### Button Functions:

- **"Prev/V--" Key:**
  - Short press: Switches to the previous song.
  - Long press (approximately 2 seconds): Decreases the volume.
- **"Next/V++" Key:**
  - Short press: Switches to the next song.
  - Long press (approximately 2 seconds): Increases the volume.
- **"P/P/Mode" Key:**
  - Short press: Toggles play/pause.
  - Long press (approximately 2 seconds): Switches between U disk and TF card playback modes.
- **"Repeat" Key:**
  - Short press: Toggles between single song loop and full song loop modes.
  - *Note: This key does not have a long press function.*

### Playback Modes:

- Upon power-on, the module automatically starts playback.
- The default playback mode is TF card. If no TF card is detected, it will automatically switch to U disk mode.
- The default loop mode upon power-on is full song loop.

## 8. MAINTENANCE

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To ensure the longevity and proper functioning of your WWZMDiB VHM-305 module, observe the following maintenance guidelines:

- Keep the module in a dry environment and avoid exposure to moisture or liquids.
- Avoid extreme temperatures, both hot and cold, as these can affect electronic components.
- Handle the module with care to prevent physical damage to the circuit board or components.
- Ensure power connections are secure and within the specified voltage range (3.7V-5.5V) to prevent damage.

## 9. TROUBLESHOOTING

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- **No Power/Module Not Responding:**
  - Check all power connections to ensure they are secure and the power supply is within the 3.7V-5.5V range.

- Verify the power source is functional.

- **No Audio Output:**

- Ensure the speaker is correctly connected to the SP+ and SP- terminals with proper polarity.
- Check the volume level using the "Next/V++" key (long press).
- Verify that the audio file on the TF card or U disk is not corrupted and is in MP3 format.

- **U Disk Not Playing:**

- Ensure the U disk is properly inserted.
- If using a 3.7V power supply, try switching to a 5V power supply, as some U disks require higher voltage.
- Use the "P/P/Mode" key (long press) to manually select U disk mode if both TF card and U disk are inserted.

- **TF Card Not Playing:**

- Ensure the TF card is properly inserted.
- Verify the TF card is formatted correctly and contains valid MP3 files.

## 10. WARRANTY AND SUPPORT

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Specific warranty information for the WWZMDiB VHM-305 MP3 Lossless Decoders Module is not provided in the product details. For support or further inquiries, please refer to the seller or manufacturer's contact information available at the point of purchase.

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

**Name**

Anonymous

**Email**

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

**Submit question**

