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Zerone Bluetooth MP3 WMA Decoder Board 8541723136 Instruction Manual

Model: 8541723136

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Zerone Bluetooth MP3 WMA Decoder Board. Please read this manual thoroughly before using the product to ensure proper function and longevity.

2. PRODUCT OVERVIEW

The Zerone Bluetooth MP3 WMA Decoder Board is a versatile audio module designed to add modern connectivity to existing audio systems. It supports music playback from USB drives, TF cards, and Bluetooth-enabled devices. Additionally, it features an FM radio tuner and hands-free calling capabilities.

Key Features:

- Bluetooth hands-free call support.
- Compatible with APE, FLAC, WAV, WMA, and MP3 lossless audio formats.
- Supports USB disk, TF card, Bluetooth, and FM radio modes.
- Power-off memory function retains last settings.
- Blue backlight display for clear visibility.
- Includes a remote control for convenient operation.
- Multiple EQ sound modes and mute function.

Package Contents:

- 1 x Bluetooth Decoder Board
- 1 x Remote Control
- 1 x 2-pin Power Cable
- 2 x 3-pin Audio Output Cables



Figure 2.1: Front view of the decoder board, highlighting the USB port, TF card slot, display, and control buttons.

3. SETUP

Careful wiring is essential for the correct operation of the decoder board. Ensure all connections are secure before applying power.

3.1 Power Connection

The decoder board can be powered via two methods:

- **DC 7V-12V:** Use the provided 2-pin power cable to connect to a DC power source within this voltage range. Observe polarity (red for positive, black for negative).
- **5V Micro USB:** Alternatively, power the board using a 5V Micro USB cable connected to the Micro USB port.

The operating current required is 800mA-1A.

3.2 Audio Output Connection

Use the provided 3-pin cables to connect the audio output of the decoder board to your amplifier or active speakers. These cables typically provide left, right, and ground audio signals.

3.3 FM Antenna Connection

For optimal FM radio reception, connect an external antenna wire to the designated FM ANT hole located on the bottom back of the board. A simple wire can significantly improve signal strength.



Figure 3.1: Rear view of the decoder board, illustrating the wiring points for power and audio output.



Figure 3.2: Top and bottom views of the decoder board, providing a comprehensive look at its internal structure and connection interfaces.

4. OPERATING INSTRUCTIONS

The decoder board offers multiple playback modes and functions, controllable via the front panel buttons or the included remote control.

4.1 Power On/Off

Connect the power supply. The board will automatically power on. To power off, use the power button on the remote control. If power is disconnected, the board will power on automatically when reconnected.

4.2 Mode Selection

Press the **MODE** button on the front panel or remote control to cycle through available modes: USB, TF, Bluetooth, and FM.

Support USB disk / TF / Bluetooth / FM modes.



Figure 4.1: Illustration of the various input modes supported by the decoder board.

4.3 USB/TF Card Playback

Insert a USB flash drive into the USB port or a TF card into the TF card slot. The board will automatically switch to the respective mode and begin playing supported audio files (APE, FLAC, WAV, WMA, MP3).

4.4 Bluetooth Mode

1. Switch the decoder board to Bluetooth mode using the **MODE** button. The display will indicate Bluetooth mode.
2. On your mobile device, search for Bluetooth devices and select the one corresponding to the decoder board (e.g., "Bluetooth Speakers").
3. Once paired, you can play audio from your device through the decoder board.

4.5 FM Radio Mode

1. Switch the decoder board to FM mode.
2. **Automatic Scan:** Press and hold the **PLAY/PAUSE** button to initiate an automatic scan for FM stations. The board will scan and save available stations as presets. Ensure an FM antenna is connected for best results.

3. **Changing Stations:** Short press the **PLAY/PAUSE** button to cycle through saved presets. Use the **VOL+** or **VOL-** buttons (short press) to manually tune up or down frequencies.

4.6 Hands-Free Calling

When a call is received in Bluetooth mode, the music will pause. Press the **PLAY/PAUSE** button to answer the call. Press it again to end the call. The integrated microphone allows for hands-free communication.

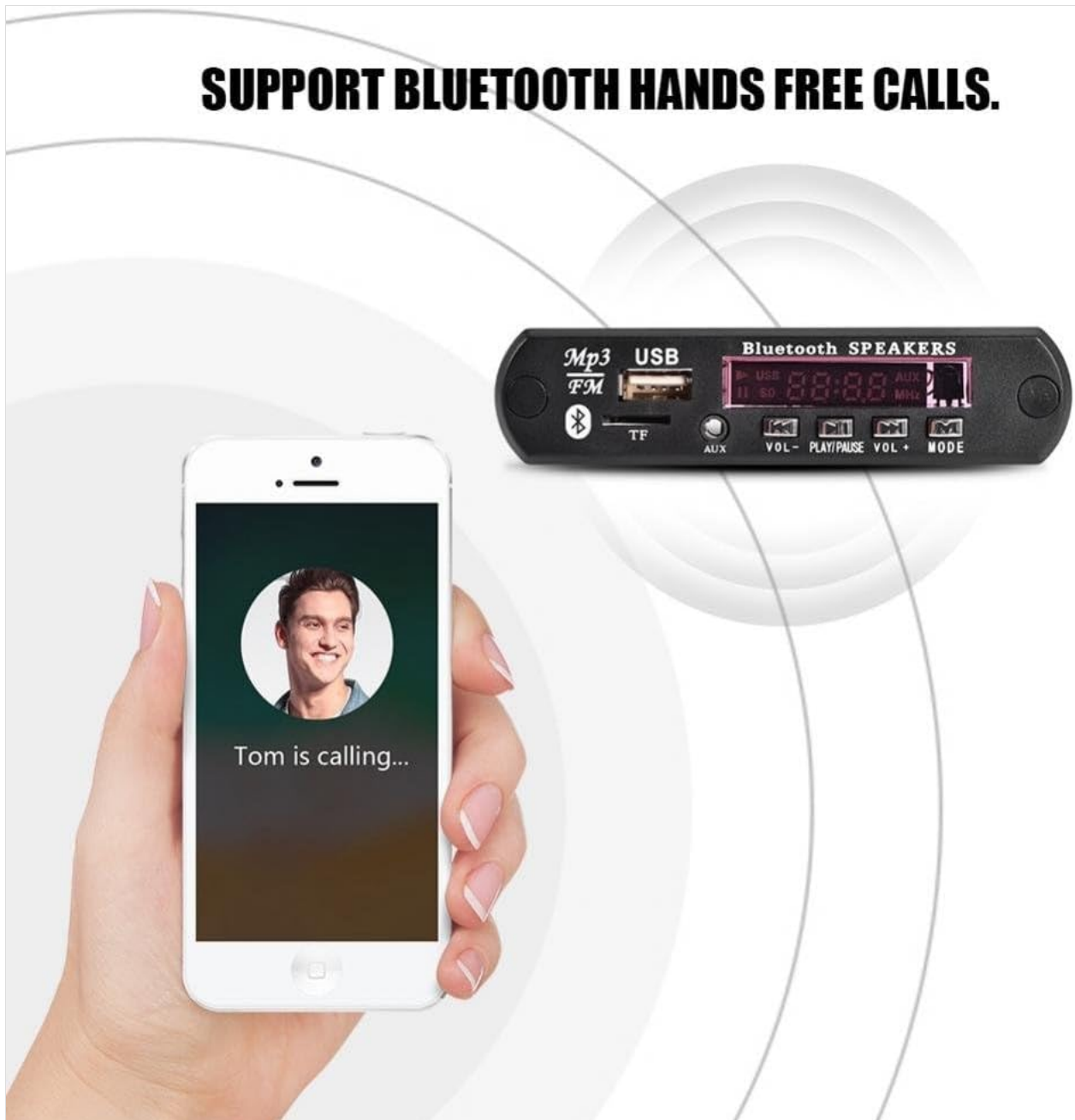


Figure 4.2: The decoder board supports hands-free calls when connected via Bluetooth.

4.7 Volume Control

Press and hold the **VOL+** or **VOL-** buttons on the front panel or remote control to adjust the volume level.

4.8 Remote Control Functions

The remote control provides convenient access to all functions. Refer to the remote control diagram for button layout.



Figure 4.3: Detailed view of the remote control, showing various function buttons.

COMES WITH REMOTE CONTROL OPERATION.



Figure 4.4: The remote control allows for convenient operation from a distance.

5. MAINTENANCE

To ensure the longevity and optimal performance of your decoder board, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the surface of the board. Avoid using liquid cleaners or solvents, as they may damage the components.
- **Environment:** Operate the board in a dry environment, away from excessive heat, moisture, and direct sunlight.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.
- **Storage:** If storing the device for an extended period, disconnect it from the power source and store it in a cool, dry place.

6. TROUBLESHOOTING

If you encounter issues with your decoder board, refer to the following common problems and solutions:

Problem	Possible Cause / Solution
No power / Board does not turn on.	Check power connections (7-12V DC or 5V Micro USB). Ensure correct polarity. Verify power source is active.
No audio output.	Ensure audio output cables are correctly connected to an amplifier or active speakers. Check volume levels on both the board and the connected audio system. Verify the correct mode is selected (USB, TF, Bluetooth, FM).
Bluetooth device cannot connect.	Ensure the board is in Bluetooth mode. Make sure your device's Bluetooth is enabled and discoverable. Try restarting both the board and your Bluetooth device.
Poor FM radio reception / Cannot find stations.	Connect an external antenna wire to the FM ANT hole. Perform an automatic scan to save stations. Ensure you are in an area with good FM signal coverage.
Board does not remember last FM station.	After connecting an FM antenna, perform a full automatic scan and allow it to complete. The board will then remember the last station if it is one of the saved presets. Note that disconnecting power may reset to Bluetooth mode.
Display color is red, not blue as expected.	While product descriptions may indicate a blue backlight, some units may feature a red display. This is a cosmetic variation and does not affect functionality.
Remote control not working.	Check the battery in the remote control. Ensure there are no obstructions between the remote and the board's IR receiver.
EQ button on remote has no effect.	Some EQ functions may be mode-specific or require specific audio sources. Verify if it works in different playback modes.

7. SPECIFICATIONS

Feature	Detail
Model Number	8541723136
Brand	Zerone
Panel Size (L x H x D)	107mm x 25mm x 38mm
Mounting Hole Spacing	92mm
Screen Size	45mm x 8mm
Operating Voltage	DC 7V-12V, 5V/Micro USB
Operating Current	800mA-1A
Connectivity Technologies	Aux, Bluetooth, USB
Special Features	Bluetooth FM Transmitter, Hands-Free Calls
Audio Formats Supported	APE, FLAC, WAV, WMA, MP3
Item Weight	1.44 ounces (approx. 40g)

8. WARRANTY AND SUPPORT

For product support, technical assistance, or inquiries regarding your Zerone Bluetooth MP3 WMA Decoder Board, please refer to the official Zerone brand store or contact your retailer. Specific warranty details may vary by region and retailer.

Visit the [Zerone Store](#) for more information.