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› Oumefar Bluetooth Audio Receiver Amplifier Board with Remote Control User Manual

Oumefar Oumefars9tx3gd8mk-01

Oumefar Bluetooth Audio Receiver Amplifier Board

INSTRUCTION MANUAL

1. Introduction

This manual provides detailed instructions for the Oumefar Bluetooth Audio Receiver Microphone Amplifier USB TF FM MP3 Decoder Board. This versatile module supports multiple audio input modes, including Bluetooth, USB, TF card, and FM radio, and is compatible with MP3, WMA, WAV, and FLAC audio formats. It is designed for easy integration into various audio setups, offering direct headset drive capability or connection to a rear-stage power amplifier.

2. Package Contents

- 1 x Oumefar Bluetooth Audio Receiver Board
- 1 x Remote Control (if purchased as a bundle)

3. Product Overview



Figure 3.1: Top view of the Bluetooth Audio Receiver Board, showing USB port, TF card slot, 3.5mm audio output, microphone, and control buttons.



Figure 3.2: The included remote control for convenient operation of the receiver board.

3.1. Receiver Board Components

- **Micro USB Port:** For 5V DC power input.
- **USB-A Port:** For USB drive audio playback.
- **TF Card Slot:** For TF (MicroSD) card audio playback.
- **3.5mm Audio Output:** Connects to headphones or an external amplifier.
- **Microphone:** For voice input (if supported by the module's firmware).
- **Control Buttons:** Mode, Play/Pause, Next, Previous, EQ.
- **FM Antenna (ANT):** Connection point for FM radio reception.

3.2. Remote Control Functions

- **Power Button:** Turns the device on or off.
- **STOP Button:** Stops current playback.
- **MUTE Button:** Mutes or unmutes audio output.

- **MODE Button:** Switches between Bluetooth, USB, TF, and FM radio modes.
- **EQ Button:** Cycles through equalizer presets.
- **Previous/Next Buttons:** Skips tracks or tunes FM stations.
- **Play/Pause Button:** Plays or pauses audio.
- **Volume Up/Down Buttons:** Adjusts the audio volume.
- **Number Buttons (0-9):** Direct track selection (in USB/TF mode) or FM frequency input.

4. Setup

4.1. Power Connection

Connect a 5V DC power supply to the Micro USB port labeled 'POWER' on the receiver board. A standard phone charger (5V USB adapter) can be used. Ensure the power supply provides stable 5V DC.

4.2. Audio Output Connection

The 3.5mm audio output jack can directly drive headphones. For connection to external speakers or a home audio system, connect this 3.5mm output to the audio input of a rear-stage power amplifier.

4.3. FM Antenna (Optional)

For improved FM radio reception, connect a suitable antenna to the 'ANT' terminal on the board. A simple wire can often suffice as an antenna.

5. Operating Instructions

5.1. Power On/Off

Press the Power button on the remote control or the corresponding button on the board to turn the device on or off. A blue indicator light will illuminate when the board is powered on.

5.2. Mode Selection

Press the 'MODE' button on the remote control or the board to cycle through the available input modes: Bluetooth, USB, TF Card, and FM Radio.

5.3. Bluetooth Mode

1. Switch the module to Bluetooth mode using the 'MODE' button.
2. On your mobile device, search for Bluetooth devices and select the module's name (e.g., 'BT-AUDIO').
3. Once paired, audio from your device will stream through the module.
4. Use the Play/Pause, Previous/Next, and Volume buttons to control playback.

5.4. USB/TF Card Mode

1. Insert a USB drive into the USB-A port or a TF card into the TF card slot.
2. Switch the module to USB or TF card mode using the 'MODE' button. The module will automatically detect and begin playing supported audio files (MP3, WMA, WAV, FLAC).
3. Use the Play/Pause, Previous/Next, and Volume buttons to control playback. Number buttons on the remote can be used for direct track selection.

5.5. FM Radio Mode

1. Switch the module to FM Radio mode using the 'MODE' button.

- 2. Press the Play/Pause button to initiate an automatic scan for FM stations. The module will save detected stations.
- 3. Use the Previous/Next buttons to navigate through saved stations.
- 4. Volume can be adjusted using the Volume Up/Down buttons.

6. Maintenance

- Keep the device dry and clean. Avoid exposure to moisture or extreme temperatures.
- Clean the surface with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- Store the module in a cool, dry place when not in use.

7. Troubleshooting

Problem	Possible Cause	Solution
No power	Incorrect power supply; loose connection	Ensure 5V DC power supply is correctly connected to the Micro USB port. Check cable integrity.
No sound output	Volume too low; incorrect mode; output device not connected	Increase volume. Verify correct input mode. Ensure headphones or amplifier are properly connected to the 3.5mm audio output.
Bluetooth not pairing	Module not in Bluetooth mode; device too far; interference	Switch to Bluetooth mode. Keep devices within range. Restart both devices.
USB/TF card not playing	Unsupported file format; corrupted media; incorrect mode	Ensure files are MP3, WMA, WAV, or FLAC. Check media for corruption. Switch to USB/TF mode.
Poor sound quality	Low quality audio source; interference; faulty connection	Use high-quality audio files. Ensure all connections are secure. Test with different audio sources.
FM radio poor reception	No antenna; weak signal	Connect an external FM antenna. Adjust antenna position for better signal.

8. Specifications

Feature	Detail
Model Number	Oumefars9tx3gd8mk-01
Power Supply	5V DC (via Micro USB)
Audio Output	3.5mm Audio Jack
Audio Input Modes	Bluetooth Receiver, USB Decoding, TF Card Decoding, FM Radio
Supported Audio Formats	MP3, WMA, WAV, FLAC
Product Size (Board)	Approx. 4 x 5 cm (1.6 x 2.0 inches)

Feature	Detail
Remote Control Size	Approx. 8.6 x 4 cm (3.4 x 1.6 inches)
Item Weight	Approx. 0.95 ounces (27g)

9. Warranty and Support

For warranty information and technical support, please refer to the product packaging or contact Oumefar customer service directly through their official channels. Keep your purchase receipt for warranty claims.

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

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

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