

## Aideepen 2\_XG00335

# Aideepen BT 5.0 Stereo Audio Receiver Module

Model: 2\_XG00335

## 1. INTRODUCTION

This manual provides instructions for the Aideepen BT 5.0 Stereo Audio Receiver Module. This module is designed to add Bluetooth audio reception capabilities to various audio systems, functioning as an MP3 decoder board and a low-power amplifier. It is suitable for DIY audio projects, car audio upgrades, and converting wired speakers to wireless.

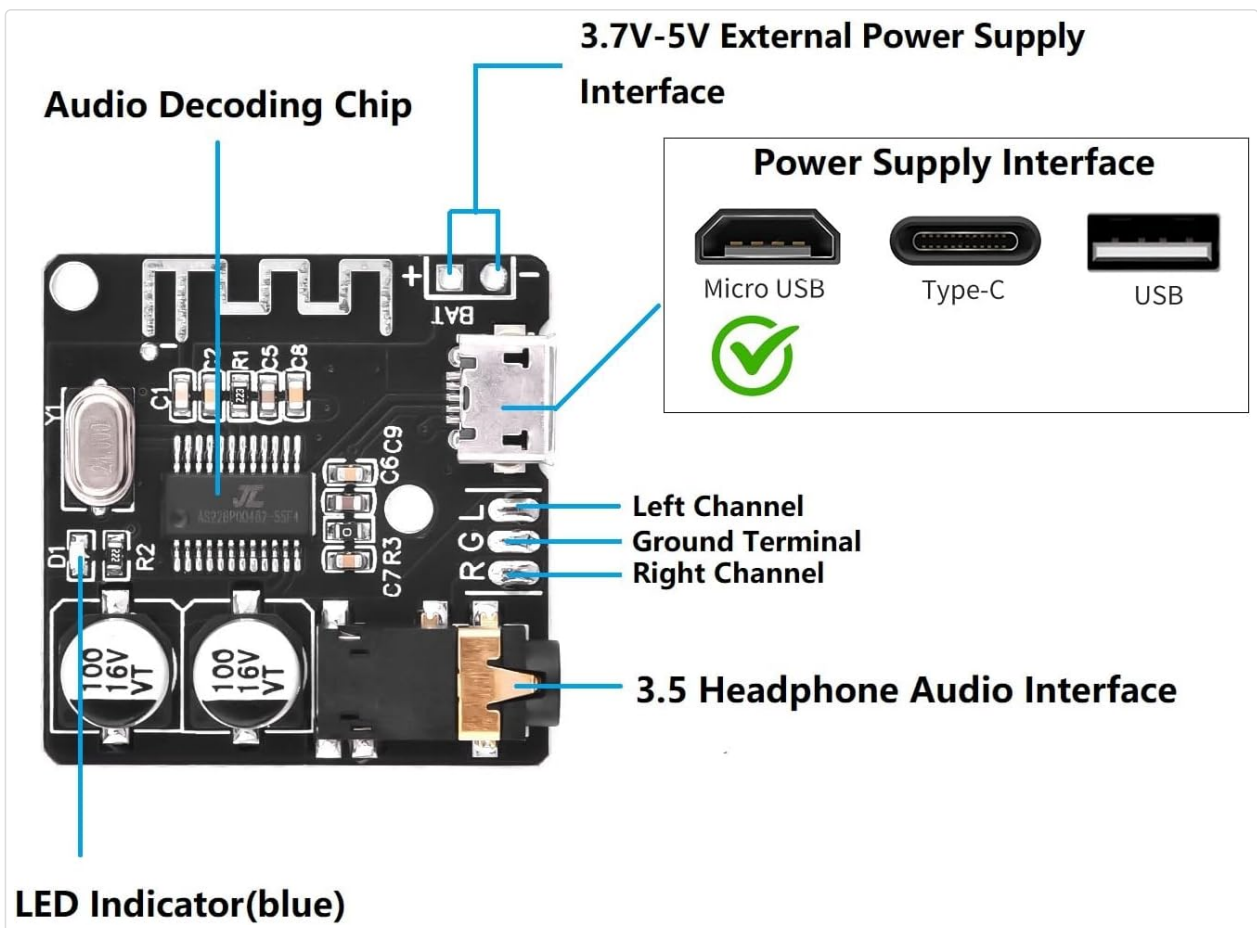
## 2. FEATURES

- **Bluetooth 5.0 Connectivity:** Provides stable wireless audio transmission. Compatible with BT 4.2, 4.1, and 4.0.
- **Audio Decoding:** Supports WAV, APE, FLAC, and MP3 lossless decoding for high-quality stereo output.
- **Flexible Power Input:** Operates on DC 3.7-5V. Can be powered via Micro USB or solder pads.
- **Sound Card Functionality:** Can be used as a computer sound card when connected via USB.
- **Transmission Range:** Up to 15 meters in a barrier-free environment.
- **Supported Profiles:** A2DP / AVCTP / AVDTP.

## 3. PACKAGE CONTENTS

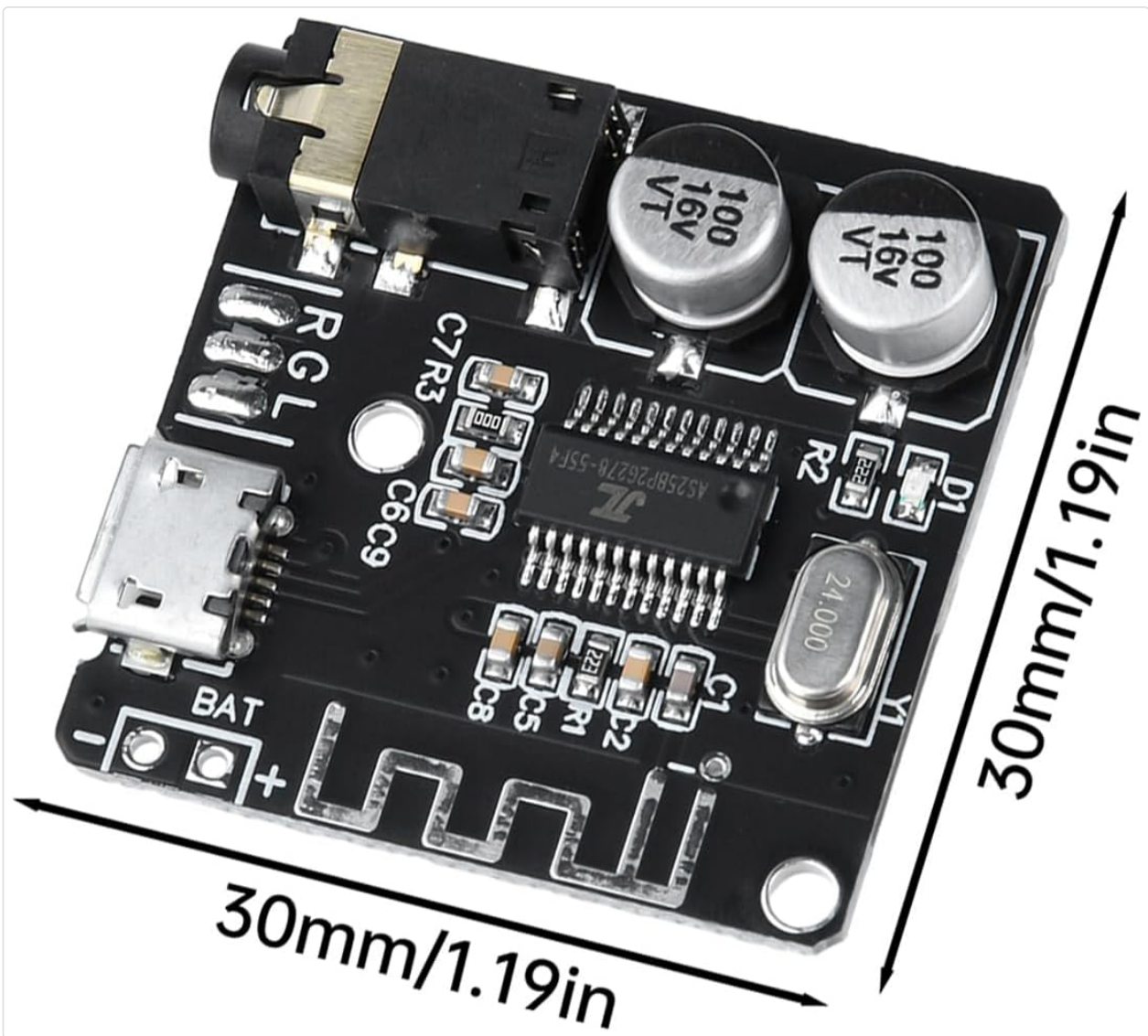
- 5 x Aideepen BT 5.0 Stereo Audio Receiver Modules

## 4. PRODUCT OVERVIEW



**Figure 1: Module Component Diagram**

This image displays the Aideepen Bluetooth Audio Receiver Module with key components labeled, including the Audio Decoding Chip, 3.7-5V External Power Supply Interface (Micro USB), Left Channel (L), Ground Terminal (G), Right Channel (R), and 3.5mm Headphone Audio Interface. An LED indicator (blue) is also visible.



**Figure 2: Module Dimensions**

This image shows the physical dimensions of the Aideepen Bluetooth Audio Receiver Module, indicating it measures approximately 30mm x 30mm (1.19 inches x 1.19 inches).

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**Video 1: Aideepen Amplifier Decoder Board Overview**

This short video provides a 360-degree view of the Aideepen Bluetooth Audio Receiver Module, allowing for a detailed visual inspection of its physical design and various ports.

## 5. SETUP INSTRUCTIONS

### 5.1 Power Supply

The module requires a DC power input between 3.7V and 5V. You can power the module using one of the following methods:

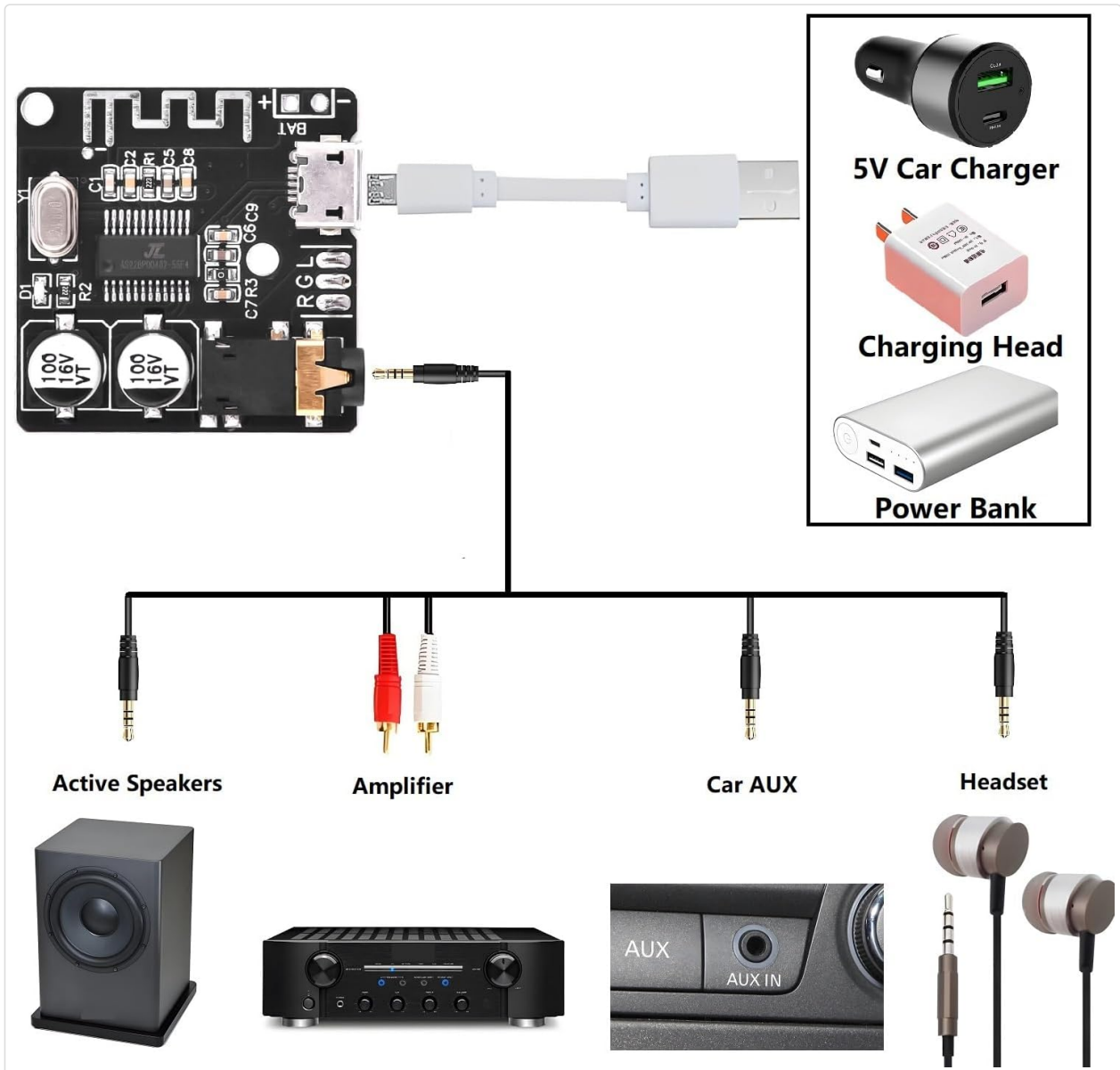
- **Micro USB Port:** Connect a standard Micro USB cable to a 5V power source (e.g., USB charger, power bank, computer USB port).
- **BAT+ and BAT- Solder Pads:** For custom installations, solder wires to the BAT+ (positive) and BAT- (negative) pads on the board. Ensure the voltage is within the 3.7-5V range.

### 5.2 Audio Output Connection

The module offers two ways to output audio:

- **3.5mm Headphone Audio Interface:** Connect headphones or an audio cable to this jack for direct audio output.
- **R, G, L Solder Pads:** For integration into other audio systems, solder wires to the R (Right Channel), G (Ground), and L (Left Channel) pads.

### 5.3 Connection Diagram



**Figure 3: Example Connection Scenarios**

This diagram illustrates how to connect the module to various audio devices, including active speakers, an amplifier, car AUX input, and headphones, using either the 3.5mm jack or the RGL solder pads. It also shows common power sources like a 5V car charger, charging head, and power bank.

## 6. OPERATING INSTRUCTIONS

### 6.1 Powering On and Bluetooth Pairing

1. **Power On:** Connect the module to a 3.7-5V DC power source using either the Micro USB port or the BAT+ / BAT- solder pads. The blue LED indicator will illuminate and flash, indicating it is powered on and in pairing mode.

2. **Device Pairing:** On your Bluetooth-enabled device (e.g., smartphone, tablet, computer), search for available Bluetooth devices. The module will typically appear as "BT-AUDIO" or a similar generic name.
3. **Connect:** Select the module's name from the list to initiate pairing. Once successfully paired, the blue LED indicator will flash slowly or remain solid (depending on the specific module revision), and you may hear a subtle confirmation tone (not a voice announcement).

## 6.2 Audio Playback

After successful pairing, any audio played on your connected device will be transmitted wirelessly to the module and output through its 3.5mm jack or RGL solder pads. Adjust the volume on your source device or the connected audio system.

## 6.3 Disconnecting

To disconnect, simply turn off Bluetooth on your source device or move out of range. The module will return to pairing mode, indicated by the faster flashing blue LED.

## 7. SPECIFICATIONS

Feature	Specification
Brand	Aideepen
Model Number	2_XG00335
Bluetooth Version	5.0 (compatible with 4.2, 4.1, 4.0)
Working Voltage	DC 3.7-5V
Audio Decoding Format	WAV+APE+FLAC+MP3 (lossless decoding)
Output Channels	2 (Stereo)
Transmission Distance	Up to 15 meters (barrier-free)
Supported Profiles	A2DP / AVCTP / AVDTP
Audio Output Interface	3.5mm Headphone Jack, RGL Solder Pads
Power Input Interface	Micro USB, BAT+ / BAT- Solder Pads
Dimensions	Approx. 30mm x 30mm (1.19 x 1.19 inches)
Item Weight	Approx. 0.95 ounces

## 8. TROUBLESHOOTING

- **No Power/LED Off:**

- Ensure the power supply is connected correctly and provides 3.7-5V DC.
- Check the Micro USB cable and power adapter for damage.

- **Cannot Pair with Device:**

- Make sure the module is powered on and the blue LED is flashing, indicating pairing mode.

- Ensure Bluetooth is enabled on your source device.
  - Move your source device closer to the module.
  - Try restarting both the module (by disconnecting and reconnecting power) and your source device's Bluetooth.
  - If multiple modules are nearby, ensure you are selecting the correct one (they may have similar default names like "BT-AUDIO").
- **No Sound Output:**
    - Verify that the module is successfully paired with your source device.
    - Check all audio connections (3.5mm cable, RGL solder connections) for proper seating and continuity.
    - Ensure the volume on your source device and any connected amplifier/speakers is turned up.
    - Test with different audio cables or headphones to rule out faulty accessories.
- **Poor Audio Quality/Crackling Sound:**
    - Ensure the power supply is stable and sufficient. Low voltage can cause audio distortion.
    - Reduce the distance between the module and your source device to improve signal strength.
    - Minimize interference from other wireless devices (Wi-Fi routers, microwaves).
    - Test with different audio sources and files to determine if the issue is with the module or the source content.

## 9. SAFETY INFORMATION

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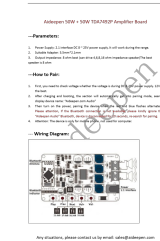

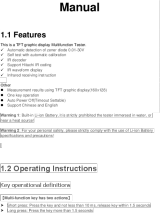



- Do not exceed the specified operating voltage of DC 3.7-5V. Overvoltage can damage the module.
- Avoid exposing the module to moisture, extreme temperatures, or direct sunlight.
- Handle the module with care to prevent damage to electronic components.
- Ensure proper insulation for all wired connections to prevent short circuits.
- Keep out of reach of children.

## 10. WARRANTY AND SUPPORT

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Aideepen products are designed for reliability and performance. For specific warranty details, technical support, or inquiries, please refer to the seller's information on the purchase platform or contact Aideepen directly through their official channels. Please retain your proof of purchase for any warranty claims.



	<p><a href="#">Aideepen 50W + 50W TDA7492P Amplifier Board: Specifications and Pairing Guide</a></p> <p>Detailed information on the Aideepen 50W + 50W TDA7492P Amplifier Board, including technical parameters, Bluetooth pairing instructions, and a wiring diagram description for optimal audio setup.</p>
	<p><a href="#">Aideepen LCR-TC1 Multi-Function Tester: Features, Specifications, and Usage Guide</a></p> <p>Comprehensive guide to the Aideepen LCR-TC1 Multi-Function Tester, detailing its features, performance parameters, component testing capabilities (transistors, diodes, resistors, capacitors, inductors), IR decoding, and troubleshooting. Learn how to use this versatile electronic component analyzer.</p>
	<p><a href="#">Aideepen LCR-T7 Multifunction Transistor Tester User Manual</a></p> <p>User manual for the Aideepen LCR-T7 Multifunction Transistor Tester, covering features, operating instructions, component testing, and detailed technical specifications for various electronic components like BJTs, diodes, capacitors, and more.</p>
	<p><a href="#">Aideepen ESP32-CAM Operation Instruction and Specifications</a></p> <p>Explore the Aideepen ESP32-CAM, a versatile camera module with Wi-Fi and Bluetooth. This guide covers product introduction, features like dual-core processing and PSRAM, performance parameters, RF specifications, and initial usage instructions for IoT applications and smart device development.</p>
	<p><a href="#">ESP32-CAM: Setting Up Arduino IDE for Video Streaming and Photography</a></p> <p>A comprehensive guide to setting up the Arduino IDE for the ESP32-CAM module, enabling video streaming and photo capture. Covers installation, configuration, and basic usage.</p>
	<p><a href="#">M328 Transistor Tester Manual: Features, Specifications, and Operation Guide</a></p> <p>Comprehensive manual for the Aideepen M328 Transistor Tester. Learn about its features, product parameters, instructions for use, and component measurement capabilities for transistors, resistors, capacitors, and more.</p>