Mini Bluetooth Audio Receiver Board BT5.0 with micro USB

The **Mini Bluetooth Audio Receiver Board BT5.0 with micro USB** is a compact and efficient solution for adding wireless audio streaming capability to any project or device. Built on the latest **Bluetooth 5.0** standard, this board ensures faster pairing, stable connectivity, and high-quality sound transmission, making it ideal for DIY audio projects, car audio upgrades, and wireless speaker systems.

With its micro USB interface and simple design, this board is easy to power and integrate. Whether you are a hobbyist working on custom electronics or simply want to upgrade an existing speaker to support wireless playback, this receiver board offers an affordable and reliable option.

🔧 Key Features

- **Bluetooth 5.0 Technology** – Delivers stable connections, lower latency, and improved sound quality compared to older versions.
- **Micro USB Power Supply** – Easy to power using any standard USB cable or adapter.
- **Compact Design** – Small size makes it perfect for DIY integration into speakers or audio systems.
- **Stereo Audio Output** – Provides clear sound for music streaming.

- **Plug-and-Play Operation** – No complex setup; simply power the board, pair your device, and start listening.
- **Wide Compatibility** – Works with smartphones, tablets, laptops, and other Bluetooth-enabled devices.

⚡ Technical Specifications

- **Bluetooth Version:** 5.0
- **Operating Voltage:** 5V (via micro USB or pin header)
- **Output Type:** Stereo audio (L/R channels)
- **Range:** Up to 10 meters (open environment)
- **Audio Quality:** Supports high-quality audio streaming with low distortion
- **Board Size:** Compact PCB for easy integration
- **Power Consumption:** Low, ideal for portable and battery-powered devices

🌍 Applications

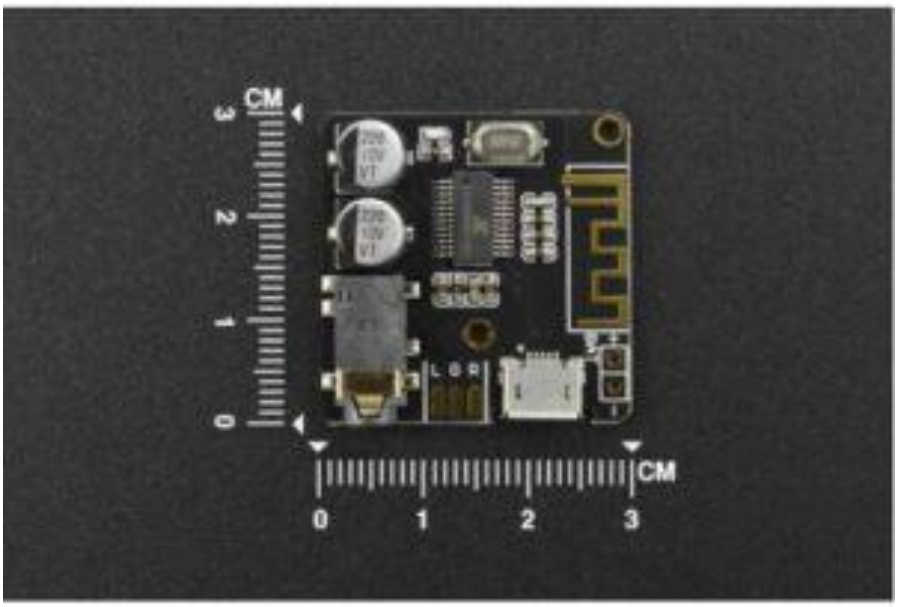
This **Bluetooth audio receiver module** is suitable for a wide variety of projects and use cases, including:

1. **DIY Wireless Speakers** – Add Bluetooth functionality to any speaker system.
2. **Car Audio Upgrades** – Stream music wirelessly from your phone to your car stereo.
3. **Home Audio Systems** – Turn traditional wired speakers into wireless Bluetooth-enabled speakers.
4. **Portable Audio Devices** – Integrate into custom battery-powered audio projects.
5. **Educational Projects** – Great for electronics students learning about audio circuits and wireless communication.
6. **Retro Audio Systems** – Upgrade old stereo systems with modern Bluetooth streaming.

🔒 Reliability and Performance

Thanks to **Bluetooth 5.0**, this receiver board provides **faster connection speeds, better range, and improved audio clarity** compared to older Bluetooth modules. It is designed to maintain a stable link with minimal interference, ensuring continuous playback without dropouts.

The micro USB interface makes powering the board simple, while its low power consumption allows it to be used in portable and battery-operated projects. With stereo outputs, it guarantees clear and balanced sound, suitable for both casual and high-quality audio applications.



✅ Why Choose This Mini Bluetooth Audio Receiver?

- Easy to integrate with existing speakers and amplifiers.
- Compact and lightweight design for DIY projects.
- Reliable connection with low latency.
- Affordable way to add Bluetooth 5.0 to any audio setup.
- Compatible with a wide range of devices (iOS, Android, Windows, etc.).

Conclusion

The **Mini Bluetooth Audio Receiver Board BT5.0 with micro USB** is the perfect solution for anyone who wants to enjoy the benefits of wireless audio. Whether you are building a custom Bluetooth speaker, upgrading your car stereo, or modernizing an old audio system, this module offers the **convenience of wireless streaming, superior sound quality, and easy integration**.

With its **compact design, micro USB power input, and reliable Bluetooth 5.0 performance**, this receiver board is a must-have for audio enthusiasts, students, and DIY developers. It combines affordability with functionality, making it one of the best options for upgrading your audio experience to the wireless era.