

Kebidu 747D Bluetooth 4.2 Car Kit Wireless MP3 Decoder Board Instruction Manual

Model: 747D | Brand: Kebidu

1. Introduction

The Kebidu 747D Bluetooth 4.2 Car Kit Wireless MP3 Decoder Board is a versatile audio module designed to enhance your car's audio system or integrate into custom sound projects. It features Bluetooth 4.2 for wireless audio streaming, supports MP3 and WMA playback from USB flash drives and TF memory cards, includes an FM radio tuner, and offers an AUX audio input. This manual provides detailed instructions for proper installation, operation, and maintenance to ensure optimal performance.



Image: The Kebidu 747D MP3 Decoder Board with its remote control, illustrating its Bluetooth and various input capabilities.

2. Package Contents

Please check the package for the following items:

- 1 x MP3 Decoder Board (Model 747D)
- 1 x Remote Control (Battery not included)
- 2 x Wiring Harnesses (for power and audio output)



Image: Contents of the package, including the MP3 Decoder Board, remote control, and connection wires.

3. Specifications

Feature	Specification
Model	747D
Brand	Kebidu
Voltage Input	DC 9V-12V
Bluetooth Version	4.2
FM Frequency Range	76MHz-108MHz (International)
USB Support	USB flash drive (up to 32GB)
TF Card Support	TF memory card (up to 32GB)
Audio Formats	MP3, WMA (Lossless Audio)
Display	LED color screen (digital, red)
Special Features	Radio Tuner
Certifications	CE, EAC

4. Safety Information

- Ensure the power supply is within the specified DC 9V-12V range. Incorrect voltage can damage the device.
- Always disconnect power before making or changing any wiring connections.
- Observe correct polarity for power connections (VCC+ and GND).
- This module is a decoder board and typically requires an external audio amplifier to drive speakers. Connecting speakers directly without an amplifier may result in low volume or damage.
- Avoid exposing the device to moisture, extreme temperatures, or direct sunlight.
- Do not attempt to disassemble or modify the device beyond the instructions provided.

5. Installation and Setup

Careful wiring is essential for the proper functioning of the MP3 Decoder Board. Refer to the diagram below for connection details.



Image: Detailed wiring diagram showing power input, audio output, and FM antenna connections.

Wiring Connections:

1. Power Input (DC 9V-12V):

- Connect the **VCC (+)** terminal to the positive (+) terminal of your 9V-12V DC power source.
- Connect the **GND (-)** terminal to the negative (-) terminal of your power source.
- *Ensure correct polarity to prevent damage.*

2. Audio Output (To Audio Amplifier):

- Connect **R_OUT** to the Right channel input of your audio amplifier.
- Connect **L_OUT** to the Left channel input of your audio amplifier.
- Connect **AGND** (Audio Ground) to the ground of your audio amplifier.
- *This module requires an external amplifier to drive speakers.*

3. FM Antenna:

- Locate the **FM** connection point on the board.
- Connect a suitable external FM antenna wire to this point for optimal radio reception.

4. USB Port:

- Insert a USB flash drive (up to 32GB) containing MP3/WMA audio files into the **USB** port.

5. TF Card Slot:

- Insert a TF (MicroSD) memory card (up to 32GB) containing MP3/WMA audio files into the **TF** slot.

6. AUX Input:

- Connect an external audio device (e.g., smartphone, MP3 player) to the **AUX** input using a 3.5mm audio cable.

Operation

Front Panel Controls:

- **VOL- (Volume Down / Previous Track):** Short press to select the previous song; long press to decrease volume.

- **SCAN (Play/Pause / FM Auto Scan):** Short press to switch between pause and play; long press to automatically scan and save FM radio stations.
- **VOL+ (Volume Up / Next Track):** Short press to select the next song; long press to increase volume.
- **MODE (Mode Switch):** Press to cycle through input modes: USB → TF → FM → LINE IN (AUX) → BLUETOOTH.

Remote Control Functions:

The included remote control provides convenient access to all functions. (Note: Remote control battery is not included. Typically uses a CR2025 button cell battery).

- **Power Button:** Turns the unit On/Off.
- **MODE Button:** Cycles through input modes (USB, TF, FM, AUX, Bluetooth).
- **Play/Pause Button:** Plays or pauses current track/radio.
- **Previous/Next Buttons:** Skips to the previous or next track/station.
- **Volume Up/Down Buttons:** Adjusts the volume level.
- **EQ Button:** Cycles through equalizer presets.
- **Number Buttons (0-9):** For direct track selection (USB/TF) or FM frequency input.

Bluetooth Pairing:

1. Switch the module to **BLUETOOTH** mode using the MODE button. The display will indicate Bluetooth mode.
2. On your smartphone or Bluetooth-enabled device, search for available Bluetooth devices.
3. Select "**BT-SPEAKER**" from the list to pair.
4. Once paired, you can stream audio wirelessly from your device to the MP3 Decoder Board.



Pair "BT-SPEAKER" with your Smartphone ,
Play the Music.

Image: Illustration of a smartphone successfully paired with the "BT-SPEAKER" module for music playback.

Troubleshooting

Problem	Possible Cause / Solution
No power / Unit does not turn on	Check DC 9V-12V power input connections. Ensure correct polarity (VCC+ and GND-). Verify power source is active.
No sound or very low volume	This module requires an external audio amplifier. Ensure the audio output (R_OUT, L_OUT, AGND) is correctly connected to an amplifier, and the amplifier is powered and functioning. Check speaker connections and impedance compatibility with your amplifier.
Poor FM radio reception	Ensure an external FM antenna is properly connected to the FM port on the board. Try repositioning the antenna.
Remote control not working	The remote control does not include a battery. Insert a new CR2025 button cell battery (or equivalent). Ensure there are no obstructions between the remote and the infrared receiver on the board.
USB/TF card not recognized	Ensure the USB drive or TF card is formatted correctly (FAT32 is generally recommended). Check that the card/drive is inserted fully and contains supported audio files (MP3/WMA). Maximum supported size is 32GB.
Bluetooth pairing issues	Ensure the module is in Bluetooth mode. Turn off and on Bluetooth on your device. Make sure no other device is currently paired with the module. Try forgetting the device on your phone and re-pairing.

User Tips

- **Wiring Clarity:** Many users inquire about wiring. Always refer to the detailed wiring diagram in the 'Installation' section. Double-check correct polarity for power (DC 9V-12V) and ensure proper connection to an external audio amplifier for sound output.
- **Amplification Requirement:** This module functions as a decoder and pre-amplifier. It is crucial to connect it to an external audio amplifier to drive speakers effectively. If you experience low volume, verify your setup includes an appropriate amplifier.
- **FM Antenna Importance:** For optimal FM radio reception, connecting a suitable external antenna to the designated FM port on the board is highly recommended. Without an antenna, reception may be poor or non-existent.
- **Remote Control Battery:** Remember that the remote control does not come with a battery. You will need to purchase and insert a compatible button cell battery (e.g., CR2025) for it to function.
- **Compatibility with Older Systems:** This board can be integrated into older audio systems (e.g., cassette players) by utilizing its AUX input or by replacing existing decoder components, provided the power requirements and audio output connections are compatible with the existing amplifier.

Maintenance

- Keep the device clean by wiping it with a soft, dry cloth.
- Avoid using harsh chemicals or abrasive cleaners.
- Store the device in a cool, dry place away from direct sunlight and high humidity.
- Ensure proper ventilation if installed in an enclosed space to prevent overheating.

Warranty and Support

This product comes with a 1-year warranty from the date of purchase, covering manufacturing defects. For technical support or warranty claims, please contact your retailer or the manufacturer with your purchase details.