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Khadas KBT-M-001

Khadas BT Magic Wireless Bluetooth 5.1 Audio Receiver

Model: KBT-M-001 - Instruction Manual



The Khadas BT Magic module, designed for seamless integration with Tone2/Tone 2 Pro devices.

1. Introduction

The Khadas BT Magic is a high-fidelity Bluetooth audio receiver module specifically engineered for the Khadas Tone2 and Tone2 Pro series. It enables wireless audio streaming with advanced codec support, enhancing your listening experience.

Key Features:

- Exclusive Hi-Res Bluetooth audio receiver for Khadas Tone2 series.
- Supports multiple Bluetooth encoding formats: SBC, AAC, aptX, aptX-LL, aptX-HD, LDAC.
- Utilizes the Qualcomm QCC5125 Bluetooth Chip for high-resolution audio up to 24bit 96KHz.
- Stable transmission range of up to 20 meters (actual range may vary based on environment).
- USB-C 2.0 connection, powered by the Tone2 series USB-C (I2S) interface.
- RGB LED lights indicate Bluetooth connection status and current encoding format.

2. Package Contents

Upon opening your Khadas BT Magic package, you should find the following items:

- 1x BT Magic Module
- 1x User Manual
- 1x Warranty Card



Image showing the Khadas BT Magic module, its packaging, user manual, and warranty card.

3. Safety Information

Warning:
This device may interfere with other wireless devices. Keep it away from other wireless devices while in use to prevent potential interference.

4. Product Overview

The Khadas BT Magic module features a compact design with a USB-C connector for integration with your Tone2/Tone2 Pro device and an RGB LED indicator for status feedback.

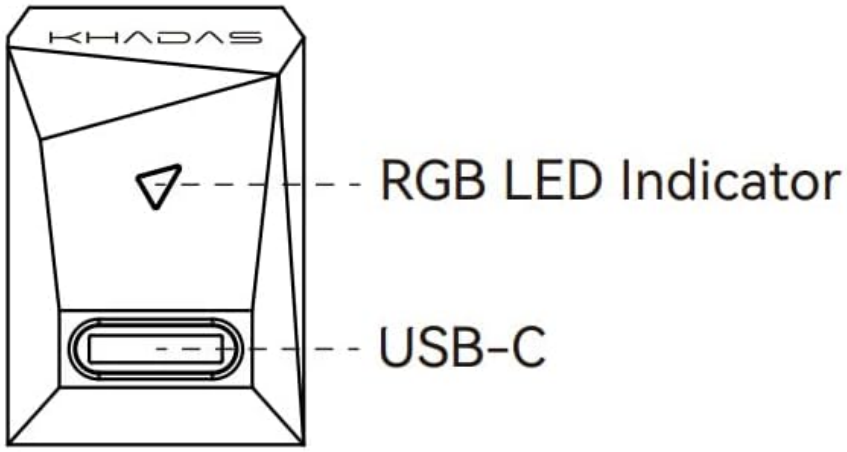


Front view of the BT Magic module, showing the RGB LED indicator.



Side view of the BT Magic module, highlighting the USB-C connector.

Interface Diagram



■ RGB LED Indicator Illustrate

Status	Motion	Color
Bluetooth Disconnected	Blue (Flashing)	
Bluetooth Connected	Blue (Breathing)	
SBC	Yellow (Breathing)	
AAC	Green (Breathing)	
aptX / aptX LL	Turquoise (Breathing)	
aptX HD	Purple (Breathing)	
LDAC	White (Breathing)	
Erase Paring Record	White (Triple Flash)	

The BT Magic module connected to a Khadas Tone2 Pro device.

5. Setup Guide

Step 1: Power On

Plug the BT Magic module into the USB-C (I2S) port of your Tone2/Tone2 Pro device. The BT Magic will automatically power on when the Tone2/Tone2 Pro is powered.



Illustration of connecting the BT Magic module to the USB-C (I2S) port of a Tone2/Tone2 Pro device.

Step 2: Bluetooth Pairing

1. Set your Tone2/Tone2 Pro's input mode to 'I2S'.
2. On your smartphone or tablet, search for 'BT Magic' in the Bluetooth pairing list. Tap on it to connect.

Illustration of the Bluetooth pairing process between a mobile device and the BT Magic module.

Step 3: Music Playback

After successfully pairing with your device, the RGB indicator on the BT Magic will display a blue breathing light. The BT Magic is now ready for music playback.

Step 4: Power Off

When your Tone2/Tone2 Pro device is turned off, the BT Magic module will also power off. The RGB indicator light will turn off.

Clearing Bluetooth Pairing Record

To clear the Bluetooth pairing history, ensure the BT Magic is plugged into your Tone2/Tone2 Pro and the Tone2/Tone2 Pro is powered off (but still connected to a 5V USB power source). Long-press the volume knob on the Tone2/Tone2 Pro for 5 seconds. The BT Magic's RGB indicator will flash white 3 times to confirm the record has been cleared.

6. RGB LED Indicator Guide

The RGB LED indicator on the BT Magic provides visual feedback on its status and the active Bluetooth codec.

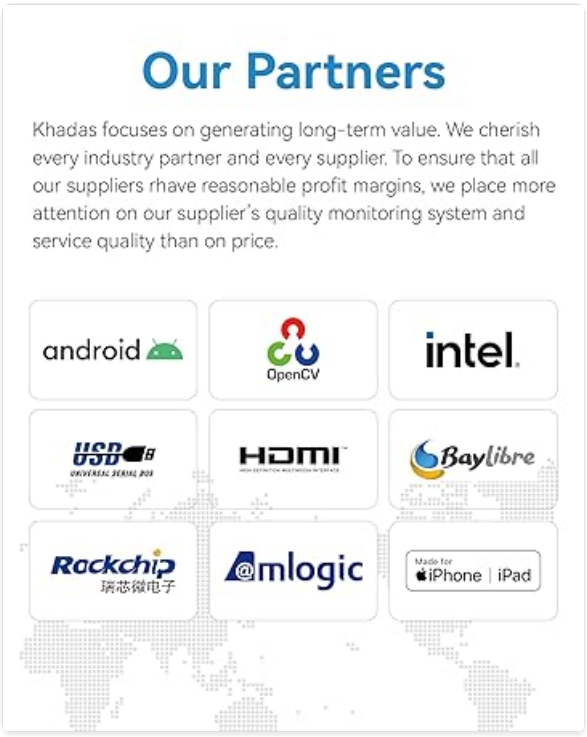


Diagram illustrating the BT Magic module with its RGB LED indicator and USB-C port.

RGB LED Indicator Status

Status	Motion	Color
Bluetooth Disconnected	Blue (Flashing)	Blue
Bluetooth Connected	Blue (Breathing)	Light Blue
SBC Codec Active	Yellow (Breathing)	Yellow
AAC Codec Active	Green (Breathing)	Green
aptX / aptX LL Codec Active	Turquoise (Breathing)	Turquoise
aptX HD Codec Active	Purple (Breathing)	Purple
LDAC Codec Active	White (Breathing)	White
Erase Pairing Record	White (Triple Flash)	White

7. Product Demonstration

Watch this official video from Khadas demonstrating the Tone2 Pro and its accessories, including the BT Magic module, and how to connect and use them.

▶ **Watch video online**
Tone2 Pro & Accessories

Official Khadas video demonstrating the Tone2 Pro and its accessories, including the BT Magic module, showing connection and basic operation.

8. Technical Specifications

Feature	Specification
Model Number	KBT-M-001
Bluetooth Chip	Qualcomm QCC5125
Bluetooth Version	5.1
Supported Codecs	SBC, AAC, aptX, aptX-LL, aptX-HD, LDAC
Sampling Rate	Up to 24bit 96KHz
Connectivity	Bluetooth, USB-C (I2S)
Power Source	USB
Color	Black
Item Weight	1.76 ounces
Package Dimensions	3.62 x 2.64 x 0.94 inches

9. Troubleshooting

If you encounter any issues with your Khadas BT Magic, please refer to the following general troubleshooting steps:

- **No Power:** Ensure the BT Magic is correctly plugged into the USB-C (I2S) port of your Tone2/Tone2 Pro and that the Tone2/Tone2 Pro is powered on.
- **Cannot Pair:** Verify that your Tone2/Tone2 Pro is set to 'I2S' input mode. Try clearing the Bluetooth pairing record as described in the 'Clearing Bluetooth Pairing Record' section. Ensure your source device's Bluetooth is enabled and discoverable.
- **Poor Audio Quality/Disconnections:** Check for potential interference from other wireless devices. Ensure your source device is within the recommended 20-meter range.
- **Incorrect Codec Indication:** Confirm that your source device supports the desired high-resolution codecs (e.g., LDAC, aptX HD) and that they are enabled in your device's Bluetooth settings.

For persistent issues, please contact Khadas customer support.

10. Warranty and Support

Your Khadas BT Magic module comes with a warranty. Please refer to the included Warranty Card for detailed terms and conditions. For technical support, product inquiries, or warranty claims, please visit the official Khadas Store or contact their customer service.

Official Khadas Store: Khadas Amazon Store

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