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› [LENCENT Bluetooth 5.3 FM Transmitter Car Adapter BC87 User Manual](#)

## LENCENT BC87

# LENCENT Bluetooth 5.3 FM Transmitter Car Adapter BC87 User Manual

Model: BC87

## INTRODUCTION

This manual provides detailed instructions for the LENCENT Bluetooth 5.3 FM Transmitter Car Adapter, Model BC87. Please read this manual thoroughly before using the product to ensure proper operation and to maximize its features. This device allows you to stream audio wirelessly from your smartphone to your car's FM radio, make hands-free calls, and charge your devices quickly.

## SAFETY INFORMATION

**CAUTION:** To avoid interference with other wireless devices, maintain a safe distance between this adapter and other devices. Always use the original battery or a recommended replacement. Do not expose the device to extreme temperatures or humidity.

- Do not disassemble or modify the device.
- Keep out of reach of children.
- Avoid direct exposure to sunlight or extreme heat.
- Ensure the device is securely plugged into the car's cigarette lighter socket.

## PRODUCT OVERVIEW

The LENCENT BC87 is a versatile car adapter designed to enhance your in-car audio and charging experience. It features advanced Bluetooth technology, multiple charging ports, and intuitive controls.



Front view of the LENCENT BC87 FM Transmitter, showing the display, control buttons, and charging ports.

## Key Features

- Bluetooth 5.3 Technology:** Provides a faster and more stable connection, automatically reconnecting to the last paired device. Optimized antenna and signal for low latency audio and calls.
- Hi-Fi Music & Bass Mode:** Offers high-fidelity stereo sound with a dedicated one-touch Bass mode for enhanced audio experience.
- PD 30W & QC 3.0 Fast Charging:** Equipped with a 30W USB-C Power Delivery (PD) port and an 18W Quick

Charge 3.0 (QC) port, allowing rapid charging for two devices simultaneously. Includes smart charge monitoring for safety.

- **Dual Microphone & Clear Sound:** Features dual microphones with CVC8.0 noise reduction and Digital Signal Processor (DSP) technology for clear, hands-free calls. Supports one-touch call management and voice assistants (Siri/Google Assistant).
- **Compact Design with Colorful LED Lights:** Small form factor prevents obstruction of other car controls. Integrated colorful breathing lights create an ambient atmosphere, which can be turned off with a single button press.



Close-up view highlighting the dual microphones for enhanced call clarity.

# 48W



## 48W FAST CHARGE 2 DEVICES IN 30 MINS



PD 30W iPhone 15Pro

85%



QC 18W Samsung S23

60%

Illustration of the LENCENT BC87 providing 48W fast charging to a smartphone and tablet.

## SETUP GUIDE

Follow these steps to set up your LENCENT BC87 FM Transmitter:

- Insert into Car Socket:** Plug the FM transmitter into your car's 12V/24V cigarette lighter socket. The device will power on automatically, and the LED display will light up.

- 2. Find a Blank FM Station:** Tune your car's FM radio to an empty frequency (a station with no broadcast). This will minimize interference and ensure clear audio. Look for static or a very quiet channel.
- 3. Match FM Frequency:** On the LENCENT BC87, long press the "CH" button until the frequency display flashes. Use the "CH+" and "CH-" buttons to adjust the transmitter's frequency to match the blank FM station you found on your car radio. Once matched, the display will stop flashing.
- 4. Bluetooth Pairing:** On your smartphone, enable Bluetooth and search for available devices. Select "BC87" from the list to pair. Once connected, the Bluetooth icon on the transmitter's display will become solid.



Visual guide for finding a blank FM station, tuning the transmitter, and pairing via Bluetooth.

## OPERATING INSTRUCTIONS

### Music Playback

- **Bluetooth Streaming:** After successful Bluetooth pairing, open your music app on your phone. Audio will stream through your car's speakers via the selected FM frequency.
- **USB Drive Playback:** Insert a USB flash drive (up to 64GB) containing MP3/WMA/WAV/FLAC audio files into the designated USB port (usually the one without charging indicators). The device will automatically detect and play music from the USB drive.
- **Control Buttons:** Use the previous/next track buttons on the transmitter to navigate songs.
- **Bass Mode:** Press the "BASS" button to activate or deactivate the enhanced bass effect for your music.

# 2 Music Playing Modes



The LENCENT BC87 supports music playback via Bluetooth 5.3 and USB drive (U Disk).

## Hands-Free Calling

The LENCENT BC87 allows for safe, hands-free communication while driving.

- **Answer Call:** Press the green phone button once to answer an incoming call.
- **Reject Call:** Long press the green phone button to reject an incoming call.
- **Hang Up Call:** Press the green phone button once during a call to end it.
- **Redial Last Number:** Double-press the green phone button to redial the last dialed number.



## Clear & Stable

### Hands-Free Calling



#### Upgrade CVC Noise Cancellation



Answer



Reject



Hang up



Hands-free  
Handset

A driver communicating hands-free using the LENCENT BC87, illustrating clear and stable call quality.

#### Voice Assistant

The device supports intelligent voice control for Siri and Google Assistant. Long press the green phone button to activate your smartphone's voice assistant.

#### LED Light Control

The LENCENT BC87 features colorful breathing lights. Press the light switch button (usually indicated by a light bulb icon) to cycle through different light modes or to turn the lights off.



## Upgraded CVC Noise Cancellation

Better for Hands-free Calling

Illustration of the LENCENT BC87's 9 modes of multicolor flowing lights, enhancing the car's ambiance.

## Charging Devices

Utilize the fast-charging ports to power up your mobile devices:

- **USB-C (PD 30W):** Connect compatible devices for Power Delivery fast charging.
- **USB-A (QC 18W):** Connect compatible devices for Quick Charge 3.0 fast charging.

## MAINTENANCE

To ensure the longevity and optimal performance of your LENCENT BC87 FM Transmitter, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use liquid cleaners or aerosols.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts.
- **Power Source:** Ensure the car's cigarette lighter socket is clean and free of debris for a stable connection.

## TROUBLESHOOTING

If you encounter issues with your LENCENT BC87, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power/Device not turning on	Loose connection; Car socket issue; Device fault	Ensure the device is firmly plugged in. Check if the car's cigarette lighter socket is working (test with another device).
Static or poor audio quality	FM frequency interference; Weak signal	Find a different, clearer blank FM station on your car radio and match the transmitter's frequency. Ensure the volume on both the transmitter and car radio is set appropriately.

Problem	Possible Cause	Solution
Bluetooth not connecting	Bluetooth not enabled; Device not in pairing mode; Already connected to another device	Ensure Bluetooth is enabled on your phone. Restart the transmitter and your phone. Forget "BC87" from your phone's Bluetooth list and try pairing again.
Charging not working or slow	Cable issue; Device not compatible with fast charging; Overload protection	Use a certified charging cable. Ensure your device supports PD or QC fast charging. Unplug and replug the device.
Hands-free call quality is poor	Environmental noise; Microphone obstruction	Ensure the microphone area is not obstructed. Reduce car fan speed or window noise.

## SPECIFICATIONS

Feature	Detail
Model Number	BC87
Bluetooth Version	5.3
Input Voltage	DC 12-24V
USB-C Output (PD)	30W (5V/3A, 9V/3A, 12V/2.5A)
USB-A Output (QC)	18W (5V/3A, 9V/2A, 12V/1.5A)
Total Output	48W Max
Product Dimensions	2.36 x 2.36 x 0.79 inches
Item Weight	1.26 ounces
Material	Plastic
Special Features	Fast Charging, Hands-Free Calls, Noise Cancellation, Hi-Fi Bass Sound, LED Lights

## WARRANTY AND SUPPORT

LENCENT products are designed for reliability and performance. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official LENCENT website. Keep your purchase receipt as proof of purchase for any warranty claims.

Manufacturer: LENCENT Technology Co.,Ltd.

## Related Documents - BC87

	<p><a href="#"><u>LENCENT BT23 Bluetooth FM Transmitter User Manual</u></a></p> <p>Comprehensive user manual for the LENCENT BT23 Bluetooth FM Transmitter, detailing installation, features, music playback, phone calls, charging, and troubleshooting.</p>
	<p><a href="#"><u>BC87 Car Bluetooth FM Transmitter User Manual</u></a></p> <p>User manual for the BC87 Car Bluetooth FM Transmitter, detailing product features, specifications, operation instructions, troubleshooting, and FCC statement.</p>
	<p><a href="#"><u>LENCENT Bluetooth FM Transmitter User Manual</u></a></p> <p>Comprehensive user manual for the LENCENT Bluetooth FM Transmitter, covering features, operation, and specifications for hands-free calling and audio streaming in vehicles.</p>
	<p><a href="#"><u>LENCENT T25A Bluetooth FM Transmitter User Manual and Guide</u></a></p> <p>Comprehensive user manual for the LENCENT T25A Bluetooth FM Transmitter. Learn how to set up, operate, and troubleshoot this car audio device for seamless music playback and hands-free calls, including specifications and safety information.</p>
	<p><a href="#"><u>LENCENT Bluetooth FM Transmitter 5.3 User Manual</u></a></p> <p>User manual for the LENCENT Bluetooth FM Transmitter 5.3, providing setup and usage information in multiple languages including English, German, French, Italian, and Spanish.</p>
	<p><a href="#"><u>LENCENT BT23 Bluetooth FM Transmitter for Car User Manual</u></a></p> <p>User manual for the LENCENT BT23 Bluetooth FM Transmitter for Car, detailing its features, installation, operation, and troubleshooting. Supports QC3.0 and Type-C PD20W fast charging.</p>

Documents - LENCENT – BC87



### [pdf] Test Report

Shenzhen Sunspring Electronics Co Ltd Keyboard OJWCG107C Violet Wang Test Report FM LENCENT Technology BC87 Transmitter 2A9MJ 2A9MJB87 bc87

Page 1 of 35 FCC ID: 2A9MJ-**BC87** Report No.: LCSA09073021EB FCC TEST REPORT FOR LENCENT Technology Co.,Ltd. FM Transmitter Test Model: **BC87**

Prepared for Address : LENCENT Technology Co.,Ltd. : Room1102, No 16 BaoNing Street, Tianhe District, 510520, Guangzhou Guangdong China Prepared by Address... lang:en score:35 filesize: 1.67 M page\_count: 35 document date: 2023-09-28



### [pdf]

Microsoft Office Anwender Covered equipment letter LENCENT Technology Co Ltd BC87 FM Transmitter 2A9MJ 2A9MJB87 bc87

Covered Equipment Attestation Letter For Certification Service in the USA Federal Communication Com ... the Commission s Rules 47 C.F.R. we attest as follows for the product listed below: FCC ID 2A9MJ-**BC87** Model name **BC87** We, applicant Company Name: Address: Phone: LENCENT Technology Co.,Ltd. Ro...

lang:en score:35 filesize: 167.35 K page\_count: 1 document date: 2023-09-28



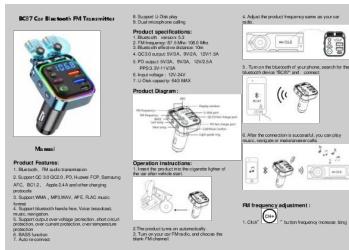
### [pdf] Test Report

Shenzhen Sunspring Electronics Co Ltd Keyboard OJWCG107C Violet Wang Test Report BT LENCENT Technology BC87 FM Transmitter 2A9MJ 2A9MJB87 bc87

Page 1 of 34 FCC ID: 2A9MJ-**BC87** Report No.: LCSA09073021EA FCC TEST REPORT FOR LENCENT Technology Co.,Ltd. FM Transmitter Test Model: **BC87**

Prepared for Address : LENCENT Technology Co.,Ltd. : Room1102, No 16 BaoNing Street, Tianhe District, 510520, Guangzhou Guangdong China Prepared by Addre... lang:en score:34 filesize: 1.12 M page\_count: 34 document date: 2023-09-28

Confidentiality Request Letter  
For Certification Service in the USA



[\[pdf\]](#) Confidentiality Request Letter

Microsoft Office Anwender Confidentiality request letter LENCENT Technology Co Ltd BC87 FM  
Transmitter 2A9MJ 2A9MJBC87 bc87

Confidentiality Request Letter For Certification Service in the USA Federal  
Communication Commission Act, we request confidentiality for the  
documentation of the following products: FCC ID 2A9MJ-**BC87** Model name **BC87**  
For the products listed above, we request permanent confidentiality for all a...  
lang:en score:34 filesize: 158.96 K page\_count: 1 document date: 2023-09-28

### [pdf] Declaration of Conformity

Microsoft Word US Agent 2 911 d 7 2A9MJ BC87 doc Miranda Lu attestation letter LENCENT Technology Co Ltd FM Transmitter 2A9MJBC87 bc87

LENCENT Technology Co.,Ltd. Federal Communications Commission Authorization and Evaluation Division ... eir agent for service of process for the equipment for which authorization is sought FCC ID: 2A9MJ-**BC87** : Name and company of U.S. agent: Physical U.S. address of agent: FRN of U.S. agent: Email add...

lang:en score:33 filesize: 165.21 K page\_count: 1 document date: 2023-09-27

## BC87 Car Bluetooth FM Transmitter User Manual

User manual for the BC87 Car Bluetooth FM Transmitter, detailing product features, specifications, operation instructions, troubleshooting, and FCC statement.

lang:en score:28 filesize: 448.47 K page\_count: 3 document\_date: 2023-09-26

## [pdf] Test Report

Shenzhen Sunspring Electronics Co Ltd Keyboard OJWCG107C Violet Wang FM test report LENCENT Technology MT03 Bluetooth Transmitter 2A9MJ 2A9MJMT03 mt03

Page 1 of 35 FCC ID: 2A9MJ-MT03 Report No.: LCSA072423066EB FCC TEST

## REPORT FOR LENCENT Technology Co.,Ltd. Bluetooth FM Transmitter Test Mode

MT03 Additional Model No.: **BC87**, C57, BT93, T70, BC92 Prepared for Address :

LENCENT Technology Co.,Ltd. : Room1102, No 16 BaoNing Street, Tianhe Dist..., Guangzhou, China

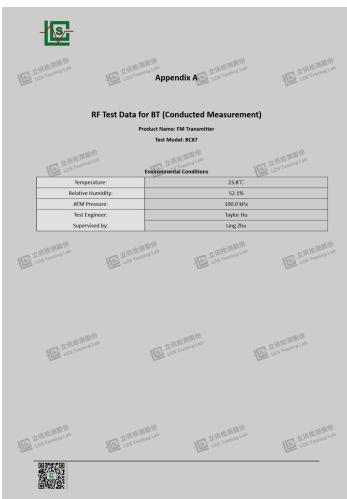
lang:en score:28 filesize: 2.19 M page\_count: 35 document\_date: 2023-08-11



## [pdf] Test Report

Shenzhen Sunspring Electronics Co Ltd Keyboard OJWCG107C Violet Wang BT test report LENCENT Technology MT03 Bluetooth FM Transmitter 2A9MJ 2A9MJMT03 mt03

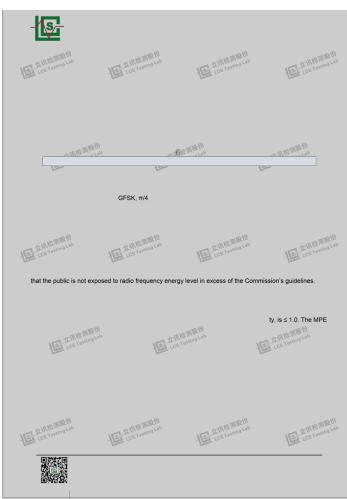
Page 1 of 34 FCC ID: 2A9MJ-MT03 Report No.: LCSA072423066EA FCC TEST REPORT FOR LENCENT Technology Co.,Ltd. Bluetooth FM Transmitter Test Model: MT03 Additional Model No.: BC87, C57, BT93, T70, BC92 Prepared for Address : LENCENT Technology Co.,Ltd. : Room1102, No 16 BaoNing Street, Tianhe Di... lang:en score:26 filesize: 1 M page\_count: 34 document date: 2023-08-11



## [pdf]

Tonscend Appendix A test data BT LENCENT Technology Co Ltd BC87 FM Transmitter 2A9MJ 2A9MJBC87 bc87

Page 1 of 48 FCC ID: 2A9MJ-BC87 Report No.: LCSA 09073021EA Appendix A RF Test Data for BT Conducted Measurement Product Name: FM Transmitter Test Model: BC87 Temperature: Relative Humidity: ATM Pressure: Test Engineer: Supervised by: Environmental Conditions 23.8 52.1 100.0 kPa Taylor Hu ... lang:en score:25 filesize: 5.56 M page\_count: 48 document date: 2023-09-28



## [pdf] Test Report SAR Rating

User RF exposure evaluation LENCENT Technology Co Ltd BC87 FM Transmitter 2A9MJ 2A9MJBC87 bc87

Page 1 of 4 FCC ID: 2A9MJ-BC87 Maximum Permissible Exposure Report 1. Product Information FCC ID EUT Test Model Power Supply Hardware Version Software Version Bluetooth Frequency Range Channel Number Channel Spacing Modulation Type Bluetooth Version Antenna Description Exposure category EUT Type... lang:en score:25 filesize: 382.82 K page\_count: 4 document date: 2023-09-28

Covered Equipment Identification Letter  
For Certification Service in the USA

Federal Communication Commission  
Equipment Authorization Division, Application Processing Branch  
7435 Oakland Mills Road  
Columbia, MD 21048

To whom it may concern  
Pursuant to Section 2.911(d)(5)(ii) of the Commission's Rules (47 C.F.R.) we attest as follows:  
We,  
  

Applicant	Company Name: LENCENT Technology Co., Ltd.
	Address: Room1102, No.16 Baoxing Street, Guangzhou, Guangdong, China
	Phone: +86-13113655342

certify that, as of the date of the filing of the application, the applicant is not identified on the Covered List as an entity producing "covered" equipment.

If you have any questions, please feel free to contact us at the address shown below.

Sincerely,

 Signature  Date: 2023-09-26

Name / Title: Director of Technology / CEO  
Company: LENCENT Technology Co., Ltd.  
Address: Room1102, No.16 Baoxing Street, Guangzhou, Guangdong, China  
Phone: +86-13113655342  
E-mail: 20230926@lcs.com

[\[pdf\]](#)

Microsoft Office Anwender Covered equipment identification letter LENCENT Technology Co Ltd BC87 FM Transmitter 2A9MJ 2A9MJBC87 bc87

Covered Equipment Identification Letter For Certification Service in the USA Federal Communication Commission Equipment Authorization Division, Application Processing Branch 7435 Oakland Mills Road Columbia, MD 21048 To whom it may concern Pursuant to Section 2.911 d 5 ii of the Commission s R...

lang:en score:25 filesize: 165.54 K page\_count: 1 document date: 2023-09-28



[\[pdf\]](#) Label

Tian Label and label location LENCENT Technology Co Ltd BC87 FM Transmitter 2A9MJ 2A9MJBC87 bc87

Page 1 of 1 LABEL AND LOCATION FCC ID: 2A9MJ-**BC87** FM Transmitter Model: **BC87** FCC ID: 2A9MJ-**BC87** Size: L: 2.5cm x W: 1.0cm Label Location Shenzhen LCS Compliance Testing Laboratory Ltd. Add: 101, 201 Bldg A 301 Bldg C, Juji Industrial Park Yabianxuezhiwei, Shajing Street, Baoan District, Shenz...

lang:en score:25 filesize: 424.07 K page\_count: 1 document date: 2023-09-27



[\[pdf\]](#) Product Photos

EXTERIOR PHOTOGRAPHS Tian External photos LENCENT Technology Co Ltd BC87 FM Transmitter 2A9MJ 2A9MJBC87 bc87

Page 1 of 4 FCC ID: 2A9MJ-**BC87** External Photos of the EUT Fig. 1 Fig. 2 Shenzhen LCS Compliance Testing Laboratory Ltd. Add: 101, 201 Bldg A 301 Bldg C, Juji Industrial Park Yabianxuezhiwei, Shajing Street, Baoan District, Shenzhen, 518000, China Tel: 86 0755-82591330 E-mail: webmaster lcs...

lang:en score:25 filesize: 1.32 M page\_count: 4 document date: 2023-09-26





## [pdf] Product Photos Teardown

EXTERIOR PHOTOGRAPHS Tian Internal photos LENCENT Technology Co Ltd BC87 FM Transmitter  
2A9MJ 2A9MJB87 bc87

Page 1 of 4 FCC ID: 2A9MJ-BC87 Internal Photos of the EUT Fig. 1 Fig. 2 Shenzhen  
LCS Compliance Testing Laboratory Ltd. Add: 101, 201 Bldg A 301 Bldg C, Juji  
Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000,  
China Tel: 86 0755-82591330 E-mail: webmaster lcs...

lang:en score:25 filesize: 1.28 M page\_count: 4 document date: 2023-09-27

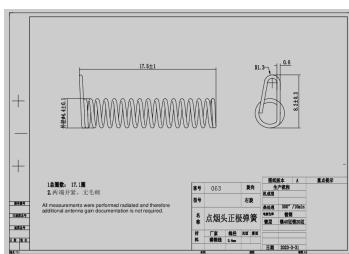


## [pdf] Product Photos

Tian Test setup photos LENCENT Technology Co Ltd BC87 FM Transmitter 2A9MJ 2A9MJBC87 bc87

Page 1 of 2 FCC ID: 2A9MJ-BC87 Test Setup Photos of the EUT Test Setup Photo s of Radiated Emissions Measurement Fig. 1 Fig. 2 Shenzhen LCS Compliance Testing Laboratory Ltd. Add: 101, 201 Bldg A 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000...

lang:tl score:24 filesize: 557.11 K page\_count: 2 document date: 2023-09-27



## [\[pdf\]](#) Documentation

Antenna information FM LENCENT Technology Co Ltd BC87 Transmitter 2A9MJ 2A9MJBC87 bc87

All measurements were performed radiated and therefore additional antenna gain documentation is not required. 063 ...

lang:tl score:14 filesize: 276.27 K page\_count: 1 document date: 0000-00-00



[\[pdf\]](#) Declaration of Conformity Test Report SAR Rating

User RF Exposure MPE FCC LENCENT Technology Co Ltd MT03 Bluetooth FM Transmitter 2A9MJ  
2A9M-IMT03 mt03

Page 1 of 5 FCC ID: 2A9MJ-MT03 Maximum Permissible Exposure Report 1. Product Information FCC ID ... description Exposure category EUT Type Device Type : 2A9MJ-MT03 : Bluetooth FM Transmitter : MT03 : **BC87**, C57, BT93, T70, BC92 : PCB board, structure and internal of these model s are the same. So no...

lang:en score:11 filesize: 371.11 K page count: 5 document date: 2023-08-11