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Comimark LY437

Comimark CSR8645 Bluetooth 4.0 Stereo Audio Module

MODEL: LY437 USER MANUAL

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Comimark CSR8645 Bluetooth 4.0 Stereo Audio Module. Please read this manual thoroughly before using the product to ensure optimal performance and safety.

The Comimark CSR8645 Bluetooth 4.0 Stereo Audio Module is designed to enable seamless wireless audio streaming. It supports APT lossless format for high-quality sound and includes a built-in speaker amplifier to enhance audio output. This module is suitable for various audio applications, offering an efficient solution for integrating Bluetooth into audio systems.

Key Features:

- Bluetooth 4.0 Connectivity: For stable wireless links.
- APT Lossless Support: Ensures high-fidelity audio.
- Stereo Output: Delivers immersive sound experience.
- Speaker Amplifier: Boosts audio volume.
- Versatile Application: Suits multiple audio setups.

2. Safety Information

Please observe the following safety precautions to prevent damage to the module and ensure user safety:

- **Power Supply:** Ensure the power supply voltage is within the specified range (3.3V to 3V, as per specifications). Incorrect voltage can damage the module.
- **Polarity:** Always connect power with correct polarity. Reverse polarity can cause irreversible damage.
- **Static Electricity:** Handle the module with care, especially in environments prone to static discharge. Use anti-static precautions if necessary.
- **Environment:** Avoid exposing the module to moisture, extreme temperatures, or corrosive substances.
- **Modifications:** Do not attempt to modify or disassemble the module. This may void the warranty and cause damage.
- **Professional Installation:** If you are unfamiliar with electronic components, seek professional assistance for installation.

3. Package Contents

Verify that all items are present and in good condition upon opening the package:

- 1 x Comimark CSR8645 Bluetooth 4.0 Stereo Audio Module Support APT Lossless Speaker Amplifier

If any items are missing or damaged, please contact your retailer or Comimark customer support.

4. Setup

Follow these steps to set up your Bluetooth audio module:

1. **Identify Connection Points:** Locate the power input pins (VCC, GND), audio output pins (L_OUT, R_OUT, GND), and any control pins (e.g., KEY, LED) on the module. Refer to the image below for a visual guide.

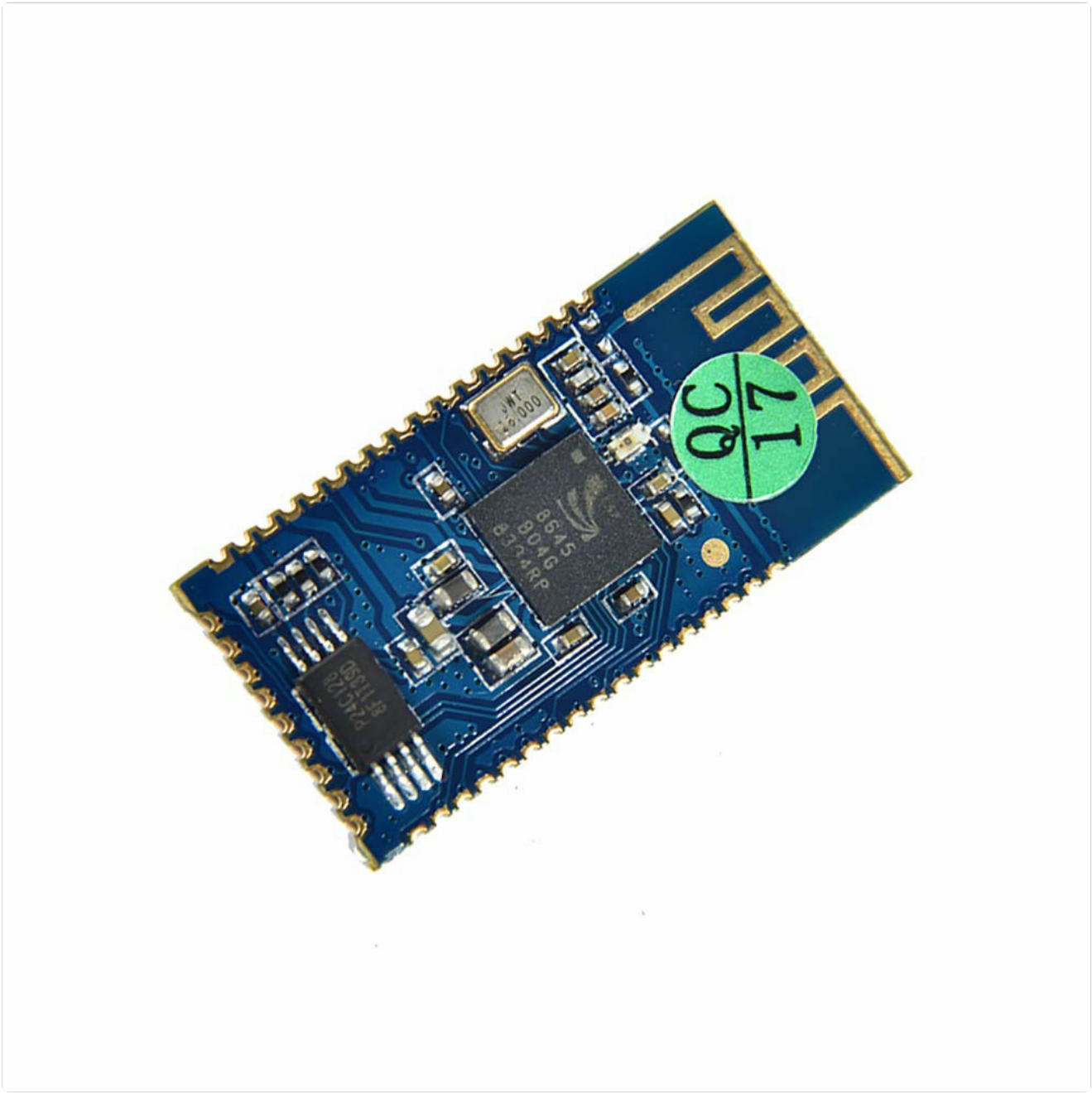


Figure 1: Top view of the CSR8645 module. This image displays the main CSR8645 chip, surrounding passive components, and the antenna trace. A 'QC 17' sticker is visible on the top left.

2. **Power Connection:** Connect a stable DC power supply (within 3.3V to 3V) to the VCC and GND pins. Ensure correct polarity.

3. **Audio Output Connection:** Connect the L_OUT, R_OUT, and GND pins to your amplifier or speaker system's audio input.
4. **Antenna:** The module features an integrated antenna. Ensure it is not obstructed by metal objects for optimal signal reception.

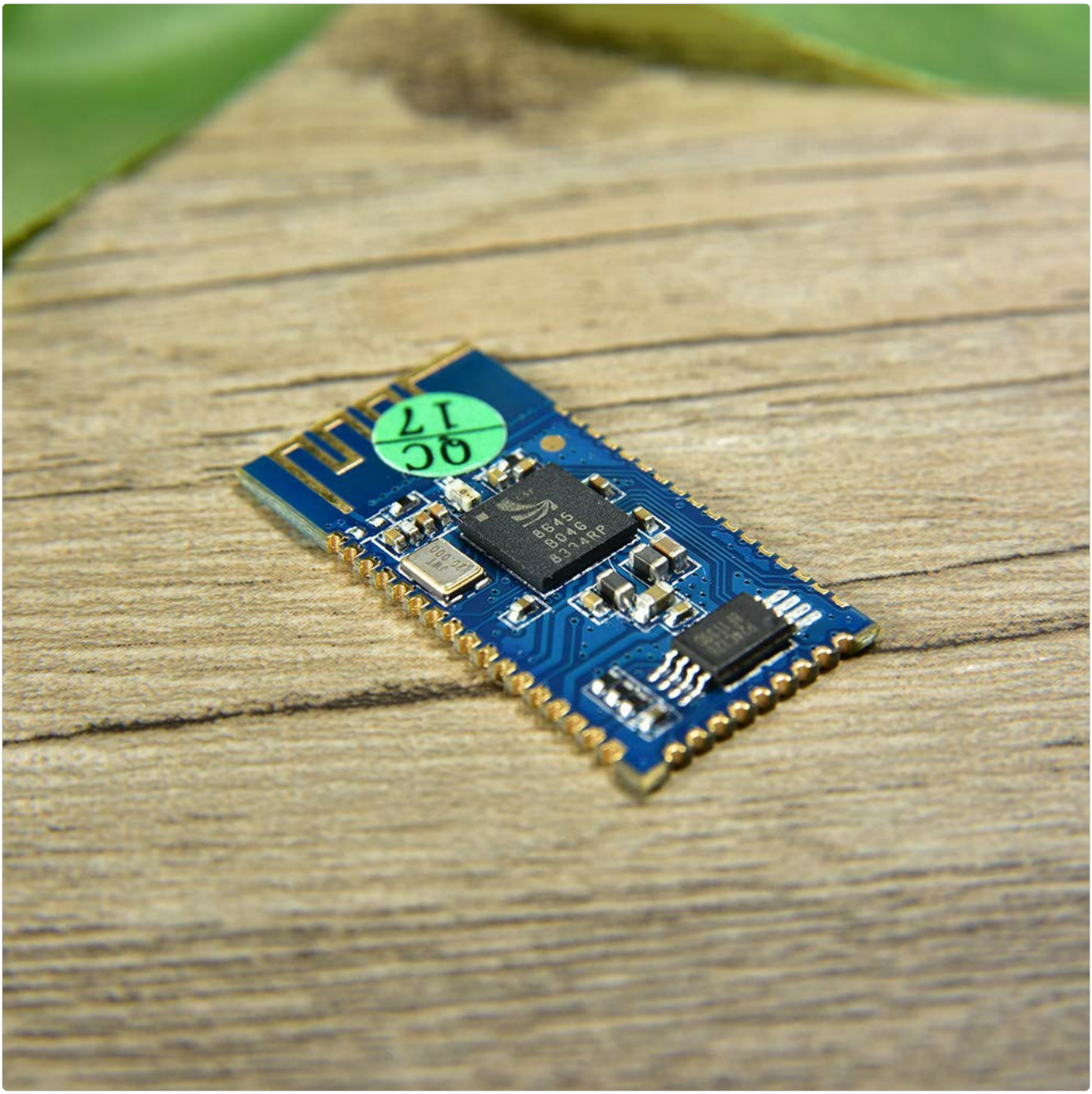


Figure 2: Angled view of the CSR8645 module. This perspective shows the module's small form factor and the arrangement of pins along its edges.

5. **Mounting:** The module is designed for surface mounting. Secure it appropriately within your project enclosure, ensuring adequate ventilation.

5. Operating Instructions

Once the module is correctly wired and powered, follow these steps to operate it:

1. **Power On:** Apply power to the module. An indicator LED (if present) should illuminate or flash, indicating it is powered on and ready for pairing.

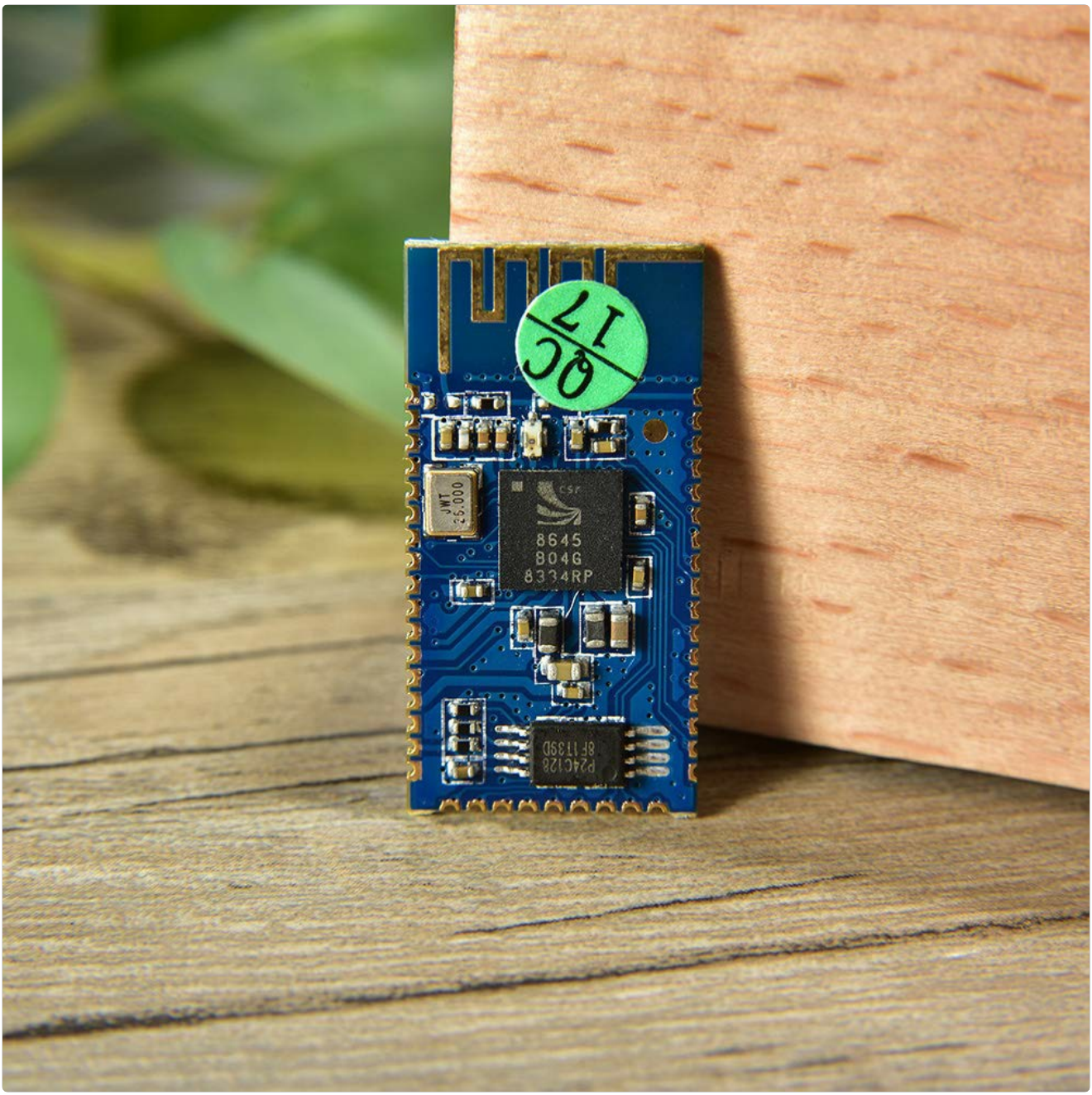


Figure 3: Detailed top view of the CSR8645 module. This image provides a clear view of the integrated circuits, resistors, capacitors, and the crystal oscillator.

2. **Bluetooth Pairing:**
    - On your Bluetooth-enabled device (e.g., smartphone, tablet), go to the Bluetooth settings.
    - Scan for available devices.
    - Look for a device named similar to "CSR8645" or "Bluetooth Audio."
    - Select the module to pair. A confirmation sound or LED change may indicate successful pairing.
3. **Audio Playback:** Once paired, play audio from your device. The sound will be transmitted wirelessly to the module and output through the connected amplifier/speakers.
4. **Volume Control:** Volume is typically controlled from the connected Bluetooth device. The module's amplifier boosts the signal, but fine-tuning is done at the source.

6. Maintenance

The Comimark CSR8645 module requires minimal maintenance:

- **Cleaning:** If necessary, gently wipe the module with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Storage:** Store the module in a dry, dust-free environment when not in use.
- **Inspection:** Periodically inspect connections for any signs of wear or corrosion.



Figure 4: Bottom view of the CSR8645 module. This image reveals the solder pads and the model identifier 'F-3188 V2.0 2013.01.29' printed on the PCB.

7. Troubleshooting

If you encounter issues with your module, refer to the following troubleshooting guide:

- **No Power:**
  - Check power supply connections and ensure correct voltage and polarity.
  - Verify the power source is active.
- **Cannot Pair with Device:**
  - Ensure the module is powered on and within range of your device.

- Turn off and on Bluetooth on your device, then try scanning again.
- Ensure no other device is currently paired with the module.
- Clear previous Bluetooth connections on your device if necessary.

- **No Sound Output:**
  - Verify that the module is successfully paired with your device.
  - Check audio output connections to your amplifier/speakers.
  - Ensure the volume on your source device is turned up.
  - Confirm your amplifier/speakers are powered on and functioning correctly.

- **Poor Audio Quality/Interference:**
  - Move the module closer to the source device to improve signal strength.
  - Ensure there are no major obstructions (especially metal) between the module and the source device.
  - Avoid placing the module near other strong electromagnetic interference sources.

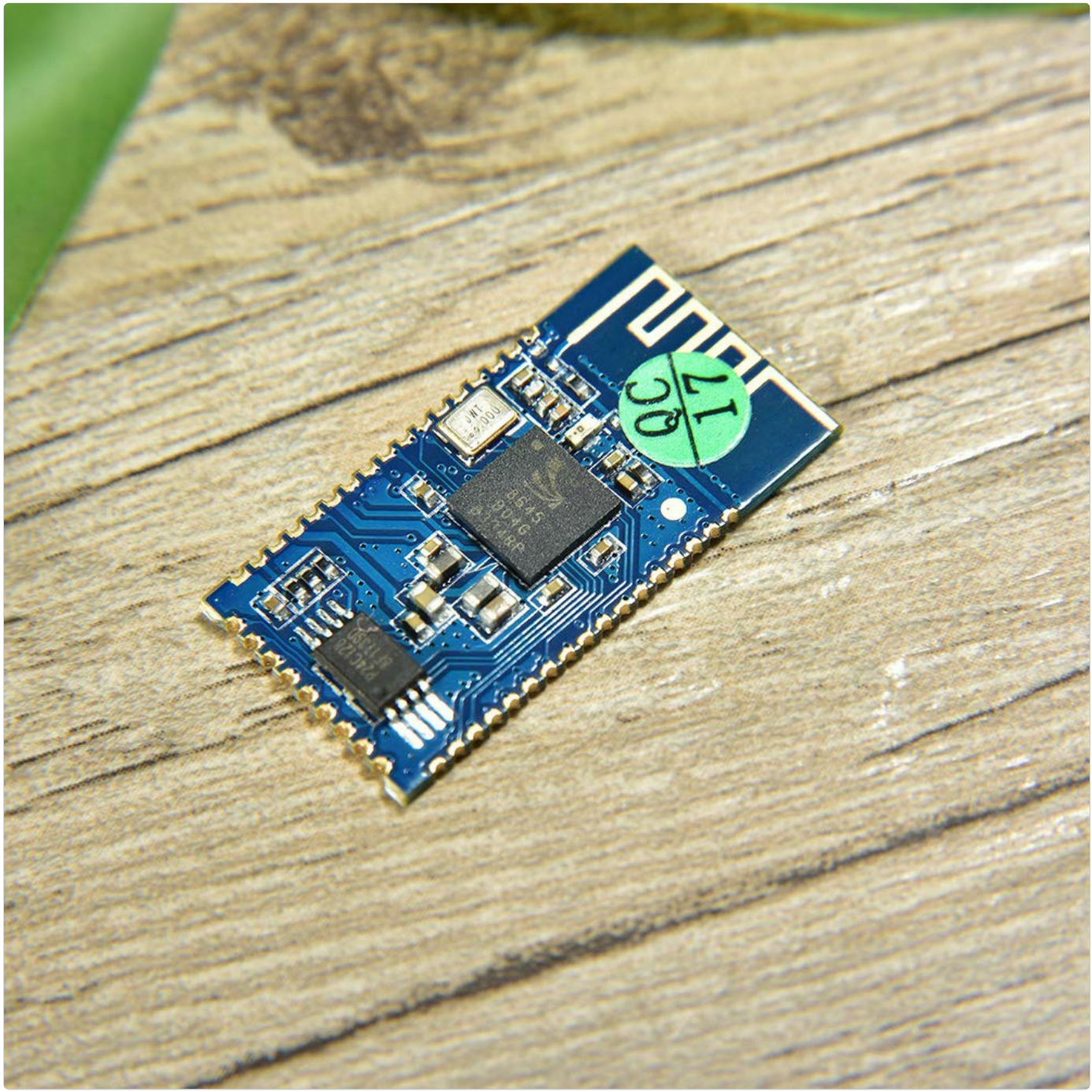


Figure 5: Another angled view of the CSR8645 module. This image provides a different perspective of the module's components and pin

headers.

8. Specifications

The following are the technical specifications for the Comimark CSR8645 Bluetooth 4.0 Stereo Audio Module:

Specification	Value
Model	LY437
Bluetooth Version	4.0
Supported Audio Formats	APT Lossless
Minimum Supply Voltage	3.3 Volts
Voltage	3 Volts (Operating)
Output Power	1.8 Milliwatts
Number of Channels	1 (Stereo output implies 2 channels, but specification states 1. Please refer to product documentation for clarification if needed.)
Mounting Type	Surface Mount
Item Dimensions (L x W x H)	1 x 1 x 1 inches (Approximate)
Specification Met	FCC

9. Warranty and Support

Comimark products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please contact your point of purchase or visit the official Comimark website. Please have your product model number (LY437) and purchase details ready when contacting support.

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Model number, symptoms, what you tried, or the section of the manual you are using.

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