RONFIC KMOD-05 User Manual

Product Name: RONFIC MODULE
Model Name: RONFIC KMOD-05
Manufacturer: China Dragon Technology Limited.

1. Introduction

The RONFIC KMOD-05 is a compact wireless module integrating IEEE 802.11b/g/n/ac WiFi and Bluetooth 4.2. It is designed for embedded applications such as IoT devices, industrial controllers, and multimedia terminals.

2. Specifications

• WiFi Standards: IEEE 802.11b/g/n/ac
• WiFi Bands: 2.4GHz (2412–2462 MHz), 5GHz (5180–5240 MHz)
• Bluetooth: Version 4.2 + HS, BLE
• Interfaces: WiFi via SDIO 3.0, BT via UART/PCM
• Supply Voltage: VDD 3.3V; VDDIO 1.8V or 3.3V
• Dimensions: 12 × 12 × 2.0 mm

3. Regulatory Information

This device complies with Part 15 of the FCC Rules:
1. It may not cause harmful interference.
2. It must accept any interference received.

■ RF Exposure: Maintain a minimum 20 cm separation from users.
■ Modification Notice: Unauthorized changes may void the authority to operate this equipment.

4. Installation Instructions

• The module must be installed inside the host product.
• Only antennas approved with the module may be used.
  (Approved antenna : YD-C03-C839 - FPCB Antenna)
• End users cannot replace/change the antenna.

5. Usage Notes

• Ensure stable 3.3V supply and proper grounding.
• Keep away from extreme humidity or corrosive environments.
• Follow PCB layout recommendations for best RF performance.

6. Labeling

The host device must carry a label:
Contains FCC ID : 2BOSX-RONFICKMOD-05

FCC Compliance Statement
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Interference Statement
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

FCC Caution
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

End Product Labeling The module is labeled with its own FCC ID. If the FCC ID are not visible when the module is
installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. In that case, the final end product must be labeled in a visible area with the following: "Contains FCC ID: 2BOSX-RONFICKMOD-05

Information on test modes and additional testing requirements
-OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, additional transmitter in the host, etc.).
Additional testing, Part 15 Subpart B disclaimer
-The final host product also requires Part 15 subpart B compliance testing with the modular transmitter installed to be properly authorized for operation as a Part 15 digital device.