

The RC6621P Module is a power-optimized true system-on-chip (SoC) solution for both Bluetooth low energy and proprietary 2.4-GHz applications. It integrates a high performance and low power RF transceiver with Bluetooth baseband and rich peripheral IO extension. It targets 2.4-GHz Bluetooth low energy systems, proprietary 2.4-GHz systems, Human-Interface Devices (keyboard, mouse, and remote control), sports and leisure equipment, portable phone accessories and consumer electronics.

RC6621P on-chip Bluetooth system compliant with version 5.1, support all of Bluetooth standard 5.1 feature.

The RC6621P integrates on chip 48KB ROM, 64K SRAM and supports user defined IDE system, on chip SFLASH MCU development and JTAG software upgrade.

## **1.Integration instructions for host product manufacturers according to KDB 996369 D03 OEM Manual v01**

### **2.2 List of applicable FCC rules**

FCC Part 15 Subpart C 15.247 & 15.207 & 15.209

### **2.3 Specific operational use conditions**

Operation Mode: BT BLE

Support Rate:1Mbps

Operation Frequency:2402~2480MHz

Number of Channel :40 Channels

Modulation Type:GFSK

Antenna Type:PCB antenna

Antenna Gain(Peak):2.48 dBi

The module is typically use in industrial, household and general office / ITE and audio & video, EV charging system end-products. The product must not be co-located or operating in conjunction with any other antenna or transmitters.

### **2.4 Limited module procedures**

Not applicable. The module is a Single module and complies with the requirement of FCC Part 15.212.

### **2.5 Trace antenna designs**

The module itself uses a PCB antenna,.any changes or modifications by the OEM integrator will require additional testing and evaluation.

### **2.6 RF exposure considerations**

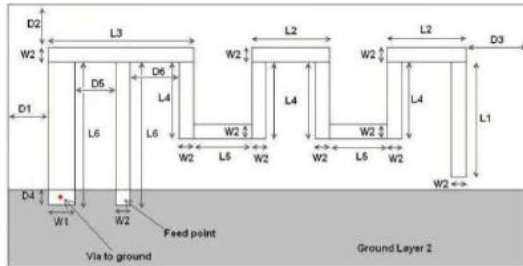
The module has been evaluated and shown compliant with the FCC RF Exposure limits under portable exposure conditions. OEM integrator shall equipped the antenna to compliance with antenna requirement part 15.203 &15.204 and must not be co-located or operating in conjunction with any other antenna or transmitters,otherwise, a Class II Permissive Change (C2PC) must be filed with the FCC and/or a new FCC authorization must be applied.

### **2. 7 Antennas**

Antenna Specification are as follows:

Antenna Type:PCB antenna

Antenna Gain(Peak):2.48 dBi



End product must include the antenna

This device is intended only for host manufacturers under the following conditions: The transmitter module may not be co-located with any other transmitter or antenna;

The module shall be only used with the External antenna(s) that has been originally tested and certified with this module. The antenna must be either permanently attached or employ a 'unique' antenna coupler.

As long as the conditions above are met, further transmitter test will not be required. However, the host manufacturer 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, etc.).

### 2.8 Label and compliance information

The final end product must be labelled in a visible area with the following :

“Contains FCC ID: 2A25F-6621P”

If the size of the end product is smaller than 8x10cm, then additional FCC part 15.19 statement is required to be available in the users' manual: 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.

A user's manual for the finished product should include one of the following statements: For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

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 try to correct the interference by one or more 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 that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The User's Manual for The finished product should include the following statements:

Any changes or modifications to this equipment not expressly approved by the OEM/Integrator may cause harmful interference and void the user's authority to operate this equipment.

### **RF Exposure**

This device has been evaluated and shown compliant with the FCC RF Exposure limits under Mobile fixed exposure conditions.

### **2.9 Information on test modes and additional testing requirements**

Data transfer module demo board can control the EUT work in RF test mode at specified conditions. This radio module must not be installed to co-locate and operating simultaneously with other radios in the host system except in accordance with FCC multi-transmitter product procedures. Additional testing and equipment authorization may be required operate simultaneously with other radio.

### **2.10 Additional testing, Part 15 Subpart B disclaimer**

The host product manufacturer is responsible for compliance with any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

### **General Statements**

The module is intended only for OEM integrators.

The OEM integrator is responsible for ensuring that the end-user has no manual instruction to remove or install module.

The OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed

The OEM shall be only used with the External antenna(s) that has been originally tested and certified with this module. The antenna must be either permanently attached or employ a 'unique' antenna coupler, and must not be co-located or operating in conjunction with any other antenna or transmitters, otherwise, a Class II Permissive Change (C2PC) must be filed with the FCC and/or a new FCC authorization must be applied.

The product is typically use in industrial, household and general office / ITE and audio & video, EV charging system end-products.