

# LivinUpCA-311 Instruction Manual

## Description

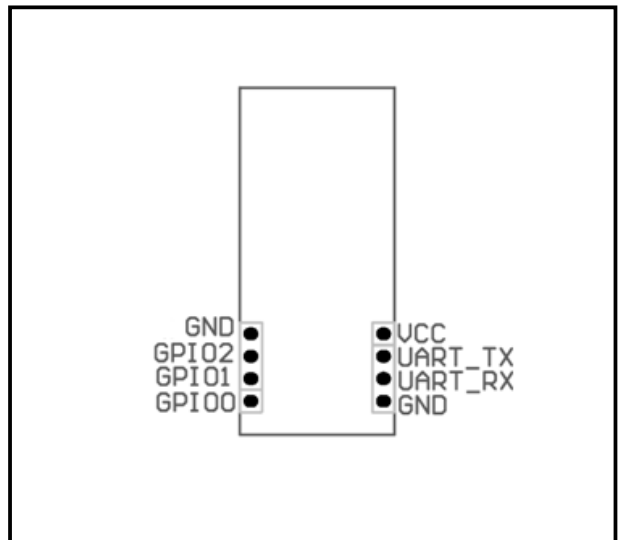
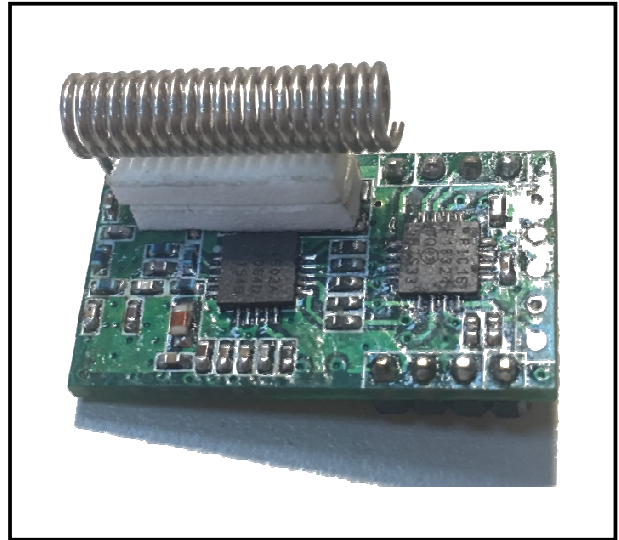
CA-311 features 433.92MHz RF Transceiver combined one UART, two GPIO and Analog Peripherals for a wide range of wireless and IoT applications.

## Application

- LivinUp RF 433.92MHz Encryption/Decryption Technology
- Home/Building Automation
- Home Appliance
- Lighting
- Sensor

## Features

- Operating Speed: 32MHz Clock Input
- Low-Current Power-on Reset
- Brown-out Reset (BOR) at 1.9V
- Operating Voltage Range
  - 1.8V to 3.6V
- Temperature Range:
  - -20°C to 60°C
- Serial Communications:
  - Baud Rate: 57600 bps
  - RS-232, RS-485, LIN compatible
- Up to 4 GPIO Pins:
- RF Distance: 50m



**FCC statement in User' s Manual (for class B) -for FCC 15b devices (15.105)**

**Federal Communication Commission 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 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.

**FCC Caution:**

1. 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.
  
2. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
  
3. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

**IMPORTANT NOTE : (For Portable Device Configuration)**

**Federal Communication Commission (FCC) Radiation Exposure Statement**

**This EUT is compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.**

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 ID : 2AA3M-CA311**

## Modular Approval

This device is intended only form OEM integrators under the following conditions:

- 1) The antenna must be installed such that 20cm is maintained between the antenna and users, and
- 2) The transmitter module may not be co-located with any other transmitter or antenna.

IMPORTANT NOTE: In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

### **End Product Labeling**

This transmitter module is authorized only for use in devices where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in visible area with the following:

“Contains TX FCC ID: 2AA3M-CA311”

### **End Product Manual Information**

The user manual for end users must include the following information in a prominent location “IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.”