

# Bluetooth Communication equipment

## - User Manual

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1. Manual Guide

The Bluetooth Communication equipment User Manual was created to assist the user of the equipment. Since content regarding specific usages are included in the introduction, the manual guide will assist in basic methods in installing and connecting the equipment.

### 2. Introduction

The Bluetooth Communication equipment is a product that can be supported by a low-energy 2.4 GHz interface on the PC. As the Bluetooth Communication equipment uses a Bluetooth 4.0 (BLE) system, it works on very little energy. On the PCB surface, an antenna (reverse F type) is printed for Bluetooth communication. When connecting the PC with the Bluetooth, using the supported serial interface speed (115200 Bps) is recommended. The serial driver chip CP2104 is supported by the serial port.

**\* The USB port is service port.**

### 3. Functions

On the PC, the serial port program is used to send and receive packets. The settings of the serial port are the following:

- Baud : 115200 bps
- Data bits : 8
- Stop bits : 1
- Parity: none

The data transmission's status can be monitored by the Bluetooth Communication equipment's LED's

#### 4. Specific Features

##### 1) Changing Modes

The Bluetooth Communication equipment's mode can be changed by pressing and holding the button on the bottom right.

##### 2) equipment Status

The equipment's currently pairing status with other devices can be monitored. When the light emitted turns green, it means that the equipment's pairing has been completed.

## FCC Information

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.

Note: This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 of 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 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 correct the interference by one or more of the following measures:

- 1.1. Reorient or relocate the receiving antenna.
- 1.2. Increase the separation between the equipment and receiver.
- 1.3. Connect the equipment into an outlet on a circuit different from that to which receiver is connected.
- 1.4. Consult the dealer or experienced radio/TV technician for help.

## WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

### IMPORTANT NOTE:

#### FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.