

Keyestudio

Project 12: Bluetooth Wireless Communication

1. Description

Although the micro:bit enjoys a low-power Bluetooth module that can make Bluetooth connections and send data, it only boasts 16k RAM. The BLE stack takes up 12k RAM, which means there is not enough space to run microPython, thus only one microPython or Bluetooth service can be running at a time.

<https://microbit-micropython.readthedocs.io/en/latest/ble.html>

The above projects uses the built-in modules of micro: bit and LED dot matrix, however, the following are all extended experiments between the sensor modules on the micro:bit and smart car such as an IR remote control (microPython is not currently supported), an ultrasonic, a servo, WS2812 RGB lights and seven-color lights.

(Note: Disconnect the USB cable from the micro:bit and turn off the power on the bottom board (flip the **POWER** switch to the **OFF** end) before installing the micro:bit on the expansion board so as to prevent burning out the micro:bit board. Similarly, do the same before removing the micro: bit from the expansion board.)