

## **Operation Principle**

The YG-203 is a single-chip solution integrating radio, baseband, and microcontroller. The data rate is at 3Mbps. The non-removable antenna is an embedded PCB antenna matching is done by using lumped inductors and capacitors. The radio system uses 2.4GHz (the frequency range is 2402 - 2480MHz) FHSS, which consists of 79 channels and the channel spacing is 1MHz.

The controller can be powered by DC 3.7V battery or charged by USB cable. Its modulation type is FHSS, the bluetooth module internal crystal frequency is 26MHz, the antenna type is internal.