Circuit Description

Battery (DC 3.7V) provides energy for the Bluetooth chip (AC7916A); Crystal oscillator (24MHz) provides the clock signal for the Wifi chip. Bluetooth signals get through a matching circuit, and then transmitted to the space through the antenna (2402-2480MHz). When the product is connected, the product in can two-way communication with other Wifi Devices, and then the device's Wifi module sends Wifi signals into space, the product receives the Wifi signal through an antenna, transmission to the Bluetooth chip via matching circuit. the doorbell. Press start 433.92MHz transmission signal, and then а receiving box will ring.

Wi-Fi: 2412-2462MHz Modulation Technique BLE: GFSK Wi-Fi: DSSS, OFDM 433.92MHz: ASK For 433.92 MHz Radio, the transmission protocols descriptions as follow:

Duty Cycle: Ton1 = 1.5362msTon2 = 0.5507msTon = (10*1.5362+15*0.5507) ms=23.623 msTp = 61.034 ms

The transmission protocols descriptions as follow:

Ton2:

