

## 1. Operation description

CSR8635 U4 is the main control chip of this system, which is responsible for converting the received signal to the audio signal. X1 26 MHz is to provide the clock work for U4 crystal. Antenna is the antenna is mainly to receive and send a Bluetooth signal, S5, S6 is a microphone to convert sound into electrical signals sent to U4 for processing. K4, K5, K6, respectively, is to open the key and the volume of the key to switch the key. D1, D2 is a light emitting diode used to indicate the working state of the U4. VBAT\_IN is the battery for U4 power supply, 1V8, VDDIO, SYS\_PWR these sets of power supply is the internal power supply for the U4 internal and external peripherals.

|                     |                             |
|---------------------|-----------------------------|
| Operating Frequency | 2402 to 2480 MHz            |
| Type of Modulation: | GFSK, $\pi/4$ -DQPSK, 8DPSK |
| Number of Channels  | 79/40 Channels              |
| Channel Separation: | 1 MHz/2 MHz                 |
| Antenna Type        | PCB                         |
| Antenna gain:       | 0 dBi                       |
| Bluetooth version   | V4.1                        |