

## Circuit Description

KBA-BB20-MS 20keys Bump Bar uses CH571F chip. The whole protocol architecture can be divided into three parts: the bottom hardware module, the middle protocol layer and the high-end application layer. The external circuit consists of antenna RF matching circuit, 32MHz oscillation circuit, power filter circuit and output circuit, KEY function key PIO circuit and LED indicator lamp BLE:

|                      |                                                    |
|----------------------|----------------------------------------------------|
| Operation Frequency: | 2402-2480 MHz                                      |
| Modulation Type:     | GFSK                                               |
| Number Of Channel    | 40CH                                               |
| Antenna Designation: | Bluetooth: PCB antenna                             |
| Antenna Gain         | Bluetooth: 2.1dBi                                  |
| Ratings:             | DC 5V charging from notebook<br>DC 3.0V by battery |

### 2.4GHz

|                      |                                                    |
|----------------------|----------------------------------------------------|
| Operation Frequency: | 2402-2474MHz                                       |
| Modulation Type:     | GFSK                                               |
| Number Of Channel    | 37CH                                               |
| Antenna Designation: | PCB antenna                                        |
| Antenna Gain         | 2.1dBi                                             |
| Ratings:             | DC 5V charging from notebook<br>DC 3.0V by battery |