# Circuit Description

Product working rationale: Power on process: put the battery into the product, turn on the POWER button, and the product is powered on. After the battery passes through the filtering circuit, it supplies power to the MCU.

After the power is stable, the MCU starts the initialization process, including frequency clock setting, IO initial state setting and RF module initialization. After the initialization is completed, the RF indicator LED starts, indicating that it has entered the synchronization mode. Otherwise, the indicator light is always on, indicating that the RF initialization is not completed and the hardware circuit is faulty.

After entering the synchronization mode, if there is a dongle receiver that has been paired with the device, it will quickly enter the working mode and the indicator light will go out. If there is no paired dongle, the device will continue in the synchronization mode for 20s before entering the low power mode.

Voltage Range: DC 3.0 V from Battery
MCU: YC1085
Crystal: 24MHz
Frequency Range: 2402-2480MHz
Modulation Technique: GFSK

Frequency Channel List:

| **Channel No.** | **Frequency (MHz)** | **Channel No.** | **Frequency (MHz)** | **Channel No.** | **Frequency (MHz)** | **Channel No.** | **Frequency (MHz)** |
|---|---|---|---|---|---|---|---|
| **1** | **2402** | 11 | 2422 | 21 | 2442 | 31 | 2462 |
| 2 | 2404 | 12 | 2424 | 22 | 2444 | 32 | 2464 |
| 3 | 2406 | 13 | 2426 | 23 | 2446 | 33 | 2466 |
| 4 | 2408 | 14 | 2428 | 24 | 2448 | 34 | 2468 |
| 5 | 2410 | 15 | 2430 | 25 | 2450 | 35 | 2470 |
| 6 | 2412 | 16 | 2432 | 26 | 2452 | 26 | 2472 |
| 7 | 2414 | 17 | 2434 | 27 | 2454 | 37 | 2474 |
| 8 | 2416 | 18 | 2436 | 28 | 2456 | 38 | 2476 |
| 9 | 2418 | 19 | 2438 | 29 | 2458 | 39 | 2478 |
| 10 | 2420 | **20** | **2440** | 30 | 2460 | **40** | **2480** |