

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, Touchpad, RF, and the MCU.

After the power is stable, the MCU starts the initialization process, including frequency clock setting, IO initial state setting, Touchpad module and RF module initialization. After the initialization is completed, the RF indicator LED starts to flash at a frequency of 600ms/time, 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 1.5 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	36	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