

Diagram description of 7002 remote control

Operating principle of diagram is as follows:

1. U1 (4054) is charge IC which controls charging current.
2. U2 (GL5311C) is voltage stabilization IC, which takes power from the battery and supplies power to the single-chip microcomputer, 2.4G module and Bluetooth module.
3. Q1/Q3 and other circuits nearby constitute the switch circuit to control on and off of remote control.
4. U5 and U6 constitutes battery protection circuit.
5. U4 is a wireless module. Operation frequency is 2410MHZ-2470MHZ. Modulation mode: GFSK. Antenna is 2.4G FPC antenna, the external diameter is 1.13 and length is 65mm. Crystal oscillator frequency is 16MHZ.

Channel list is as below:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 1 | 2410 | 26 | 2435 | 51 | 2460 |
| 2 | 2411 | 27 | 2436 | 52 | 2461 |
| 3 | 2412 | 28 | 2437 | 53 | 2462 |
| 4 | 2413 | 29 | 2438 | 54 | 2463 |
| 5 | 2414 | 30 | 2439 | 55 | 2464 |
| 6 | 2415 | 31 | 2440 | 56 | 2465 |
| 7 | 2416 | 32 | 2441 | 57 | 2466 |
| 8 | 2417 | 33 | 2442 | 58 | 2467 |
| 9 | 2418 | 34 | 2443 | 59 | 2468 |
| 10 | 2419 | 35 | 2444 | 60 | 2469 |
| 11 | 2420 | 36 | 2445 | 61 | 2470 |
| 12 | 2421 | 37 | 2446 | 62 | |
| 13 | 2422 | 38 | 2447 | 63 | |
| 14 | 2423 | 39 | 2448 | 64 | |
| 15 | 2424 | 40 | 2449 | 65 | |
| 16 | 2425 | 41 | 2450 | 66 | |
| 17 | 2426 | 42 | 2451 | 67 | |
| 18 | 2427 | 43 | 2452 | 68 | |
| 19 | 2428 | 44 | 2453 | 69 | |
| 20 | 2429 | 45 | 2454 | 70 | |
| 21 | 2430 | 46 | 2455 | 71 | |
| 22 | 2431 | 47 | 2456 | 72 | |
| 23 | 2432 | 48 | 2457 | 73 | |

| | | | | | |
|-----------|------|-----------|------|-----------|--|
| 24 | 2433 | 49 | 2458 | 74 | |
| 25 | 2434 | 50 | 2459 | 75 | |

6. U3 (**GD32F130C8T6**) is a single-chip microcomputer which controls the whole system.

7. Supply power voltage: 1S LiPo (3.4-4.2V)

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

ISED Statement

English: This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada.

L'exploitation est soumise aux deux conditions suivantes :

- (1) Cet appareil ne doit pas provoquer d'interférences.
- (2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

The device has been evaluated to meet general RF exposure requirement. The device can be used in distance 0mm between the radiator & your body without restriction.

L' appareil a été évalué pour répondre aux exigences générales en matière d' exposition aux RF.

L' appareil peut être utilisé dans la distance 0mm entre le radiateur et votre corps sans restriction.