

### **Frequency hopping description**

1. (Frequency Range):902~928MHz.
2. (Type of Modulation):FHSS.
3. (Channels):50
4. (Occupied Bandwidth):250KHz.
5. (Channel Separation):500KHz.
6. (MAX RF Output power):26.56dBm.
7. Reader operating frequency is 902MHz ~ 928MHz, divided into 50 channels, each channel width is 500kHz, the first channel frequency point is 902.75MHz, followed by 903.25MHz, 903.75MHz ... 50th channel The frequency point is 927.25 MHz; a frequency hopping cycle table is constructed based on the above frequency points. Every time the boot software generates a random frequency hopping sequence, random frequency hopping starts from 902.75MHz each time, then it jumps to the middle channel, and then it randomly jumps to both sides, each frequency hopping is +500KHz or -500KHz, when there is interference signal At this point, the frequency hopping will directly across the channel beyond 2M; when the interference signal disappears, it will return to the current frequency hopping sequence:

For example: just start the center frequency 902.75MHz, jump to 914.75MHz, then jump to 914.25MHz (-0.5MHz), or jump to 915.25MHz (+0.5MHz), and jump to the next 913.75MHz (-0.5MHz) , or jump to 915.75MHz (+0.5MHz)....., if an interference signal is encountered at 913.75 MHz, the frequency hopping will jump to 911.75MHz (-2MHz), and finally jump to 903.25MHz and 927.25MHz; , complete a hopping cycle ;

## 8 Channel List

| Channel List |                    |         |                    |         |                    |
|--------------|--------------------|---------|--------------------|---------|--------------------|
| Channel      | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
| 01           | 902.75             | 18      | 911.25             | 35      | 919.75             |
| 02           | 903.25             | 19      | 911.75             | 36      | 920.25             |
| 03           | 903.75             | 20      | 912.25             | 37      | 920.75             |
| 04           | 904.25             | 21      | 912.75             | 38      | 921.25             |
| 05           | 904.75             | 22      | 913.25             | 39      | 921.75             |
| 06           | 905.25             | 23      | 913.75             | 40      | 922.25             |
| 07           | 905.75             | 24      | 914.25             | 41      | 922.75             |
| 08           | 906.25             | 25      | 914.75             | 42      | 923.25             |
| 09           | 906.75             | 26      | 915.25             | 43      | 923.75             |
| 10           | 907.25             | 27      | 915.75             | 44      | 924.25             |
| 11           | 907.75             | 28      | 916.25             | 45      | 924.75             |
| 12           | 908.25             | 29      | 916.75             | 46      | 925.25             |
| 13           | 908.75             | 30      | 917.25             | 47      | 925.75             |
| 14           | 909.25             | 31      | 917.75             | 48      | 926.25             |
| 15           | 909.75             | 32      | 918.25             | 49      | 926.75             |
| 16           | 910.25             | 33      | 918.75             | 50      | 927.25             |
| 17           | 910.75             | 34      | 919.25             |         |                    |