

## Operation Description

This product controlled by the main MT8163. When power on, the CPU will reset, and detecting the connecting device success, it will mutual communication control.

1. Touch Pannel: MT8163 connect with I2C1 communication port control the touch screen.
2. Debug: UART0 print the debug information.
- 3.RF Chip : MT6625LN ; Crystal : 26MHz

|                                   |                                                                                                                                                                                                                                         |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IEEE 802.11 WLAN Mode Supported : | <input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g<br><input checked="" type="checkbox"/> 802.11n(20MHz channel bandwidth)<br><input checked="" type="checkbox"/> 802.11n(40MHz channel bandwidth) |
| Modulation :                      | DSSS with DBPSK/DQPSK/CCK for 802.11b;<br>OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;                                                                                                                                                |
| Operating Frequency Range :       | <input checked="" type="checkbox"/> 2412-2462MHz for 802.11b/g/n(HT20)<br><input checked="" type="checkbox"/> 2422-2462MHz for 802.11n(HT40)                                                                                            |
| Number of Channels :              | <input checked="" type="checkbox"/> 11 channels for 802.11b/g/n(HT20);<br><input checked="" type="checkbox"/> 9 channels for 802.11n(HT40);                                                                                             |
| Antenna Type :                    | External antenna                                                                                                                                                                                                                        |
| Antenna Gain :                    | 2dBi                                                                                                                                                                                                                                    |
| Power Supply:                     | DC 12V                                                                                                                                                                                                                                  |

| Channel List      |                 |               |                 |
|-------------------|-----------------|---------------|-----------------|
| Channel No.       | Frequency (MHz) | Channel No.   | Frequency (MHz) |
| 1                 | 2412            |               |                 |
| 2                 | 2417            |               |                 |
| 3                 | 2422            | 3             | 2422            |
| 4                 | 2427            | 4             | 2427            |
| 5                 | 2432            | 5             | 2432            |
| 6                 | 2437            | 6             | 2437            |
| 7                 | 2442            | 7             | 2442            |
| 8                 | 2447            | 8             | 2447            |
| 9                 | 2452            | 9             | 2452            |
| 10                | 2457            | 10            | 2457            |
| 11                | 2462            | 11            | 2462            |
|                   |                 |               |                 |
|                   |                 |               |                 |
| 802.11b/g/n(HT20) |                 | 802.11n(HT40) |                 |

|                      |                             |
|----------------------|-----------------------------|
| Operation Frequency: | 2402MHz-2480MHz             |
| Channel numbers:     | 79                          |
| Channel separation:  | 1MHz                        |
| Modulation type:     | GFSK, $\pi/4$ -DQPSK, 8DPSK |
| Antenna Type:        | External antenna            |
| Antenna gain:        | 2dBi                        |
| Power supply:        | DC 12V                      |

| Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 1           | 2402            | 2           | 2403            | 3           | 2404            | 4           | 2405            |
| 5           | 2406            | 6           | 2407            | 7           | 2408            | 8           | 2409            |
| 9           | 2410            | 10          | 2411            | 11          | 2412            | 12          | 2413            |
| 13          | 2414            | 14          | 2415            | 15          | 2416            | 16          | 2417            |
| 17          | 2418            | 18          | 2419            | 19          | 2420            | 20          | 2421            |
| 21          | 2422            | 22          | 2423            | 23          | 2424            | 24          | 2425            |
| 25          | 2426            | 26          | 2427            | 27          | 2428            | 28          | 2429            |
| 29          | 2430            | 30          | 2431            | 31          | 2432            | 32          | 2433            |
| 33          | 2434            | 34          | 2435            | 35          | 2436            | 36          | 2437            |
| 37          | 2438            | 38          | 2439            | 39          | 2440            | 40          | 2441            |
| 41          | 2442            | 42          | 2443            | 43          | 2444            | 44          | 2445            |
| 45          | 2446            | 46          | 2447            | 47          | 2448            | 48          | 2449            |
| 49          | 2450            | 50          | 2451            | 51          | 2452            | 52          | 2453            |
| 53          | 2454            | 54          | 2455            | 55          | 2456            | 56          | 2457            |
| 57          | 2458            | 58          | 2459            | 59          | 2460            | 60          | 2461            |
| 61          | 2462            | 62          | 2463            | 63          | 2464            | 64          | 2465            |
| 65          | 2466            | 66          | 2467            | 67          | 2468            | 68          | 2469            |
| 69          | 2470            | 70          | 2471            | 71          | 2472            | 72          | 2473            |
| 73          | 2474            | 74          | 2475            | 75          | 2476            | 76          | 2477            |
| 77          | 2478            | 78          | 2479            | 79          | 2480            | -           | -               |