Operational   Description

The transmission data modulated the MCU(RT3052) which gets a digital modulation then passing through the MCU, working with 40MHz crystal for producing a signal to the RF module circuit carrying wave amplified by the amplifier and filter circuit unit, through the antenna then transmit out as 2412MHz to 2462MHz

1、 CPU：U1，The RT3052 SOC combines Ralink's 802.11n draft compliant 2T2R(RT3050:1T1R) MAC/BBP/2.4G ISM band Transceiver ，a high performance 384MHz MIPS24KEc CPU core, 5‑port integrated 10/100 Ethernet switch/PHY; An 40MHZ crystal(U2) for CPU`S reference frequency,

2、 SDRAM： U8,U7 Hynix HY57V281620FTP-H CMOS Synchronous DRAM，16M Byte（16M X 16bit X 2PCS）

3、 FLASH ： U6   MXIC KH29LV320(160)CBTC-70G/MX29LV160CBTC-70G 4M Byte FLASH, used for store firmware and user`s setting;

4、 PA： U10,U12 RichWave RTC6691, Freq.Range:2.4GHz-2.5GHz. PA For transmitter, Gain:33.5db (Max);

5、 LNA：Q1,Q2， SirenZa SGA8343Z， Freq.Range:2.4GHz-2.5GHz.LNA For RF receiver，Gain:17db (Max);

6、 BPF:U9,U11,BF2012-E2R4DAA, Freq.Range:2.4GHz-2.5GHz, IL@BW:2.5~3db;

7、 RF Switch：U13,U15，Skyworks AS179-92， transmit /receive SPDT Switch;

8、 Power part: U16 and U14, CP2894 Step-Down PWM Converter, used for transfer DC8~14V to DC3.3V and DC1.5V ; ; U25 SE8117TALF LDO used for transfer DC3.3V to DC2.0V;