

## Technical Description

The brief circuit description is listed as below:

- 1) U1 acts as 2.4GHz Module Circuit (BT\_RF\_BM\_S02)
- 2) Y1 is 32MHz crystal oscillator providing clock for U1.
- 3) Y2 is 32.768kHz crystal oscillator providing clock for U1.
- 4) U2 and U8 act as Voltage Regulator (LC1218-5.0V, LC1218-3.3V).
- 5) U3 acts as Protect IC (TR4P151).
- 6) U4, U9, U10 and U11 act as Motor Driver.
- 7) U5 and U7 act as SPI flash (GPR25L1603E, GPR25L12085F).
- 8) U6 acts as MCU (GP31P1003A).
- 9) Y1 is 12 MHz crystal oscillator providing clock for U6.
- 10) Y2 is 32.768kHz crystal oscillator providing clock for U6.
- 11) U12A, U12B, U12C, U12D act as Current Amplifier (LM324AD).
- 12) J9 acts as Micro USB.

**Antenna Type:** Internal antenna

**Antenna Gain:** 0dBi

**Nominal rated field strength:** 84.4dB $\mu$ V/m at 3m

**Maximum allowed field strength of production tolerance:** +/- 3dB