

Technical Description

The brief circuit description is listed as below:

- 1) U1 acts as Voltage Regulator (AP2120N).
- 2) U5-U12 act as letter sensor(74HC4051).
- 3) U13 acts as 2.4GHz RF (Bluetooth 4.0) Module(NRF51822).
- 4) Y1 is 16MHz crystal oscillator providing clock for U13.
- 5) B1 acts as Matched Balun and Band Pass Filter(2450BM14E0003)

Antenna Type: Internal antenna

Antenna Gain: 0dBi

Nominal rated field strength: 74.8dB μ V/m at 3m

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