

## **Technical Description**

The Equipment Under Test (EUT) is a 2.4GHz RC Drone operating from 2420-2465MHz with 1MHz channel spacing. The EUT is powered by 3.7V rechargeable battery. After switch on the EUT and paired with Controller, the EUT can be controlled to fly forward, backward, turn left/right.

**The brief circuit description is listed as below:**

- 1) U4 acts as 2.4GHz RF Module Circuit (XN297L).**
- 2) Y1 is 16MHz crystal oscillator providing clock for U4.**
- 3) U6 acts as MCU (61223).**
- 4) U1 acts as Voltage Regulator (CE6211C30M5G).**
- 5) U2 and U5 act as GYRO control (XXX280 and MPU-6050C).**
- 6) U3 acts as Charge MCU (SL3950).**
- 7)**

**Antenna Type: Internal antenna**

**Antenna Gain: 0dBi**

**Nominal rated field strength: 92.5dB $\mu$ V/m at 3m**

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

### 3 Block Diagram

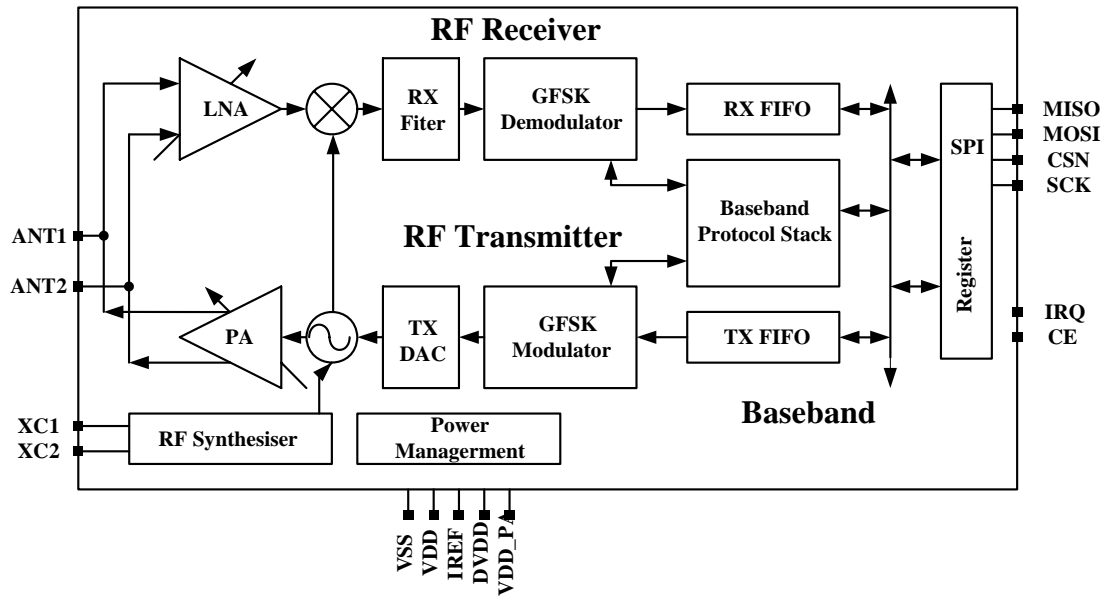


Figure 1 XN297 Block Diagram