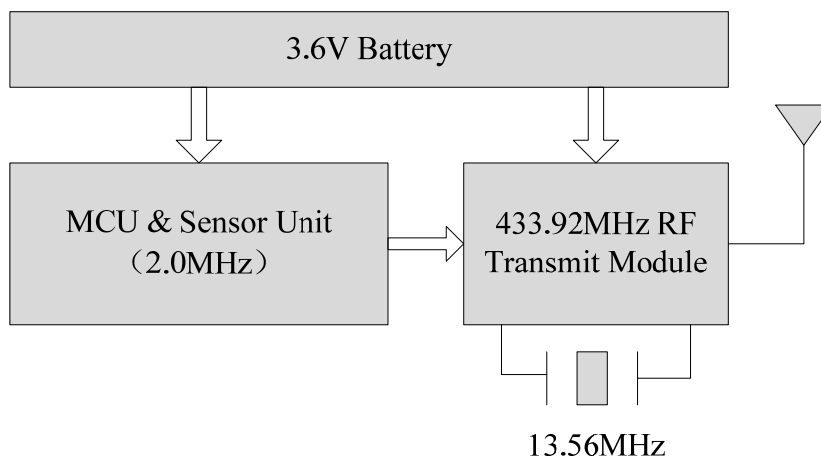


## Block Diagram:



## Circuit Description:

The EUT is powered by a DC 3.6V Battery. Main frequency of the MCU is 2.0MHz. The transmit module works at 13.56MHz, and the center frequency of the electromagnetic wave it radiated is 433.92MHz. The EUT has a dextral helix antenna with 2.25 circles.

(本产品由 3.6V 的电池供电，MCU 主频为 2.0MHz，发射模块工作于 13.56MHz，发射的电磁波的中心频率为 433.92MHz，天线为 2.25 圈、右旋的螺旋天线)

## Function Description:

Usually, the EUT senses the pressure and temperature of the tires and transmits this information to the Receiver periodically. The transmit period is 4 minutes when the automobile keep parking and the period is 1 minute when the automobile's speed become more than 20km/h.

The EUT will transmit totally 20 times with a period of 2 seconds when the abnormal tire states (including over-inflated, over-deflated, over-temperature, fast leaking and so on) occur.

The EUT will shutdown when the pressure of the tires is lower than 60kPa and transmit no information.

(通常情况下，本产品感应轮胎的压力和温度并将这些信息周期性地发送给接收器。当车辆保持静止时，发射周期为 4min，当车辆运动速度大于 20km/h 时，发射周期为 1min。当异常情况（高压、低压、高温、快速漏气等）发生时，本产品将以 2s 的发射周期向接收器发送 20 次。当轮胎压力降低到 60kPa 以下时，本产品进入休眠模式，不发射任何信息。)