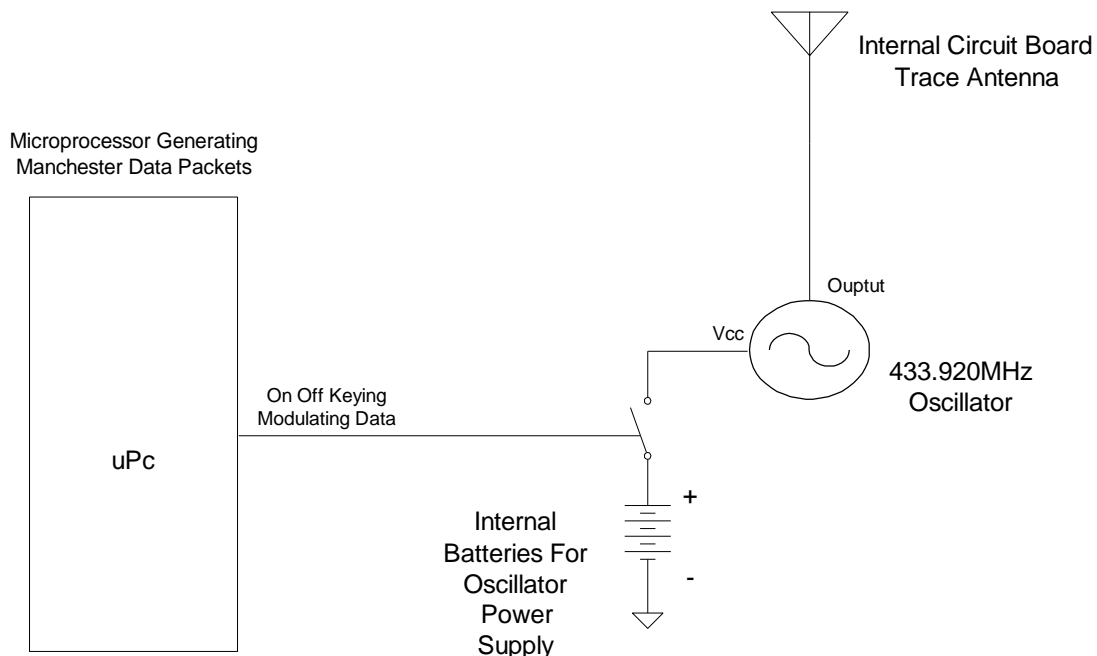


## **433.92MHz Transmitter Theory of Operation and Block Diagram**

**Overview:** The transmitter is a remote control device using OOK (on off keying), and operates on a frequency of 433.920MHZ  $\pm$ 75kHz.

The three main blocks of the transmitter are: Microprocessor, 433.92MHz Oscillator, and Antenna (please refer to Figure 1 below). The oscillator is gated on and off by the Manchester data waveform generated by the Microprocessor. The radio frequency energy generated by the Oscillator is coupled into an internal printed circuit board trace Antenna.



**Figure 1**