This device is an integration of two existing products, 1) General Electric (GE) I-210 metrology circuit board and 2) Hunt Technologies High Power (HP) AirPoint I-210 circuit board. The AirPoint portion of the circuit will read data from the metrology portion. The RF transmitter transmits On-Off-Keyed signals to compatible Itron receivers. It's transmit frequency is based on a table of fifty preset pseudo-random frequencies, stored in EEPROM. This table ensures that each of the frequencies are used the same number of times.
The frequency synthesizer uses a crystal oscillator circuit as its reference to produce a frequency between 909.586 and 921.773 MHz, which is turned on and off by the modulator to produce an OOK signal.