

The Device block diagram is as follows.

The synthesizer, is driven by a 12 MHz TCXO which is multiplied up to 2.4-2.48 GHz. The synthesizer is controlled by a microcontroller with a 32 KHz external oscillator and an internal 0-4MHz adjustable oscillator. An external 5.9904 MHz oscillator is occasionally turned on for RS-422 communications as a baud generator. RS-422 communications are brought in from a cable connected to another battery operated unit. Sensors and wake up circuits connect directly to the microcontroller. The Indicators are driven by microcontroller pins. The entire device is battery operated.

