

## Operational Description

This product, MK10, is a Bluetooth device. The product operates in 2400 to 2483.5 MHz band. The channel is represented by a pseudo-random hopping sequence through the 79 channels. The channel is divided into time slots, with a nominal slot length of 625 $\mu$ s, where each slot corresponds to different RF hop frequencies. The nominal hop rate is 1600 hops/s.

The control signals and data in the Bluetooth Chipset are modulated and processed and then pass the PA in it. They will be transmitted from ANT through the BALUN FILTER to another Bluetooth device.

The RF signal from other Bluetooth devices is received via ANT. And they go through internal BALUN FILTER into the chip. They are magnified by internal LNA in the chip.

The power settings and crystal trim are stored in internal flash.

The product is powered from a Li-ion battery and uses an integral Planer Inverted-F Antenna [PIFA]. No external ground is required.