

Circuit Description

This radio device is a spread spectrum system in which the carrier is modulated with the coded information in a conventional manner causing a conventional spreading of the RF energy about the frequency carrier. The frequency of the carrier is not fixed but changes at fixed intervals under the direction of a coded sequence. The frequency hopping characteristics are as follows:

1. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies.
2. Each frequency shall be used equally on the average by each transmitter
3. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals

The control signal of button triggered the MCU-EM78P459 which gets a pulse modulation then passing through the MCU, working with 26MHz crystal for producing a signal to the 2.4G RF module circuit carrying wave amplified by the amplifier circuit unit, through the antenna then transmit out as 2405~2454MHz

1. Functional control board kit deals with the functional controlling.
2. MCU is the main functional control center, working with 4MHz crystal, deal with function control and other atate indication.
3. Tine frequency is a multiplied frequency to produce an extract HF signal.
4. RF module is used for producing FHSS modulation.