

## Operational Principle

1. Bluetooth IC, U1, BC417143B-IQN-E4 is a single chip radio and baseband IC for Bluetooth 2.4Ghz system including enhanced data rates(EDR) to 3Mbps, Operation frequency is 2.4GHz. It needs an external 16MHz crystal for reference frequency.
2. FLASH, U2, S29AL008D70BFI020 8Mbits Flash bottom sector, 70ns. It is used to store the normal and test firmware.
3. Band-pass filter, F1, BF2520-B2R4CACT/LF, Freq. Range: 2.4~2.5GHz.
4. Balun Transformer, T1, HHM1517, Freq: 2.450GHz $\pm$ 50MHz.