

Circuit Description

The single IC chip consists of both MCU and 2.4GHz RF tranceiver. External components are filtering capacitors and matching components for antenna. Matching components consist of capacitors and inductors. Antenna is routed on the same PCB. The transmitter will send a signal to the other RFID device in GFSK modulation, and the transmitting frequency is 2448 MHz.

The circuit is power by 3V battery. Two way communication can be performed between this device and the RFID reader.