The theory of Proximity Reader (model: AX-RK86) by Axiom Security Technologies Ltd.

1. MCU module: Processor running the embedded software. RF devices through the data line to control the work, sending card information. MCU module's crystal oscillator frequency is 11.0592MHz.
2. Transmitter module: RF device receives control data from processor, and transmits data by modulating. Transmitter module's crystal oscillator frequency is 13.56MHz.
3. Loop Antenna is on the PCB, the antenna gain is 1.0dBi.
4. Power supply: Providing steady power for reader operating.