MR30 (reader) block diagram TX antenna RX antenna RF match circuit RF match circuit RF transceiver IC RF transceiver IC nRF24L01(TX 16MHz nRF24L01(RX 16MHz function) oscillator oscillator function) SPI control SPI Atmega8 MCU SPI communication Serial port communication Buzzer ARM IC Oscillator LPC2364 LED 12MHZ Eeprom FM25L256 DM9161A SP3232E Ethernet RS232 port port