

Operational Description

For RFID

RFID reader use ST25R3911B, is member of a new family of highly integrated reader ICs for contactless communication at 13.56 MHz. This reader IC family utilizes an outstanding modulation and demodulation concept completely integrated for all kinds of passive contactless communication methods and protocols at 13.56 MHz. The ST25R3911B supports all layers of the ISO14443 including the type A and type B communication scheme. Modulation type: ASK. It uses a directly matched antenna to work. The antenna components have three parts:

1. A receiving circuit to receive data sent by the Tag.
2. A filtering and impedance transformation circuit suppresses higher harmonics and optimizes the power transmission to the reader antenna.
3. A matching circuit for the antenna coil to achieve the best performance and the antenna coil itself has to be designed.

The data transform by TTL232 to RS232 interface.

The transmitter of the EUT is powered by DC5V from power adapter or system 5V. The antenna used in this product is LOOP antenna.

The other instruction, please have a look at the users manual.

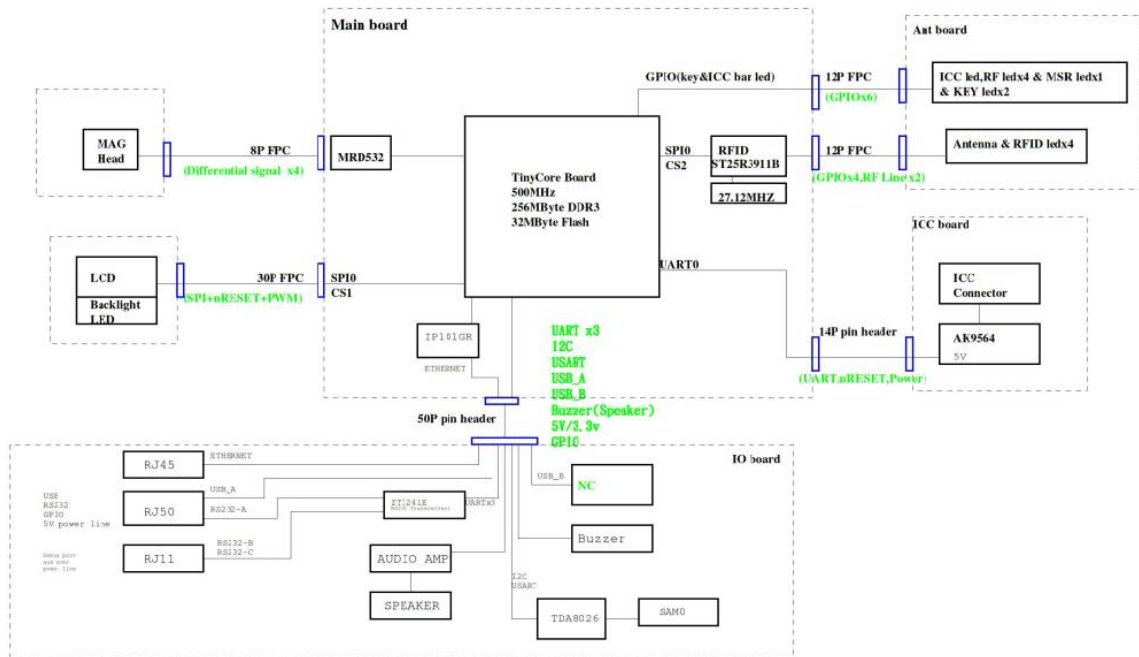


Figure1 show the circuit block diagram of the Bezel8-S.

Antenna Specification

RFID Antenna : 13.56 MHz

Type: Loop Antenna

Trade name: UIC

Model: B8-S