

RC522 Chip IC Card Induction Module RFID Reader

Model:RFID-RC522



Description:

RC522 Chip:

MF RC522 is used in highly integrated 13.56MHz contactless communication card chip to read and write, of NXP for “three” and the application launched a low voltage, low cost, small size, non-contact card chip to read and write, intelligent instruments and portable handheld devices developed better.

The MF RC522 use of advanced modulation and demodulation concept completely integrated in the 13.56MHz all kinds of passive contactless communication methods and protocols. 14443A compatible transponder signal. The digital part handles the ISO14443A frames and error detection. In addition, support Quick CRYPTO1 encryption algorithm, the term verification MIFARE series. MFRC522 support MIFARE series of high-speed non-contact communication, two-way data transfer rates up to 424kbit / s.

As 13.56MHz highly integrated card reader series chip new family, the MF RC522 MF RC500 MF RC530 there are many similarities, but also have many of the characteristics and differences. Communication between it and the host SPI mode, helps to reduce the connection, reduce PCB board volume and reduce costs.

RFID Module:

MF522-AN module uses Philips MFRC522 original chip design circuit card reader, easy to use, low cost, and suitable for equipment development, the development of advanced applications reader users, the need for RF card terminal design / production users. This module can be directly loaded into the variety of reader molds. Module uses voltage of 3.3V, simple few lines through the SPI interface directly with any user CPU board is connected to the communication module can guarantee stable and reliable work, reader distance.

Specifications:

- Module Name: MF522-ED
- Working Current: 13—26mA/ DC 3.3V
- Standby Current: 10-13mA/DC 3.3V
- Sleeping Current: <80uA

- Peak Current: <30mA
- Working Frequency: 13.56MHz
- Card Reading Distance: 0~60mm (mifare1 card)
- Protocol: SPI
- Data Communication Speed: Maximum 10Mbit/s
- Card Types Supported: mifare1 S50, mifare1 S70, mifare UltraLight, mifare Pro, mifare Desfire
- Working Temperature: -20—80 degree
- Storage Temperature: -40—85 degree
- Humidity: relevant humidity 5%—95%
- Max SPI Speed: 10Mbit/s
- Dimensions: 40mm×60mm

Package List:

- RFID-RC522 Module *1
- Standard empty RC522 Card *1
- RC522 Key *1
- Break away pin straight *1
- Break away pin 90 degree *1

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