

RFM811

13.56MHz NFC Module



Introduction

Near Field Communication (NFC) is a popular technology in recent years, and is becoming a set of standards for smart phones and similar devices to establish radio with each other by touching them together or bringing them into close proximity, usually no more than a few centimeters.

RFM811 is a tiny NFC card reader module, which is designed for the applications for handy terminals or custom-built for system integrators. We offer technology documents and SDK to help customers to make their own things easier.

Users can easily connect it with either UART or USB interface by through FPC connector.

Features

- Supports Near Field Communication (NFC) Standards
- Completely Integrated Protocol Handling for ISO 15693,ISO 14443A/B, MIFARE and FeliCa.
- Operation Voltage 5 Vdc.
- Module supports UID reading function, Mifare (APDU command) read/write or ISO 15693 read/write(NDEF format) in different models
- Standard 50 Ohm Antenna Output Port
- UART or USB Interface, easy to change between those modes
- Antenna is option

RFM811

Applications

- Mobile Devices (Tablets, Handsets)
- Secure Pairing (Bluetooth, WiFi, Other Paired Wireless Networks)
- Public Transport or Event Ticketing
- Passport or Payment (POS) Reader Systems

- Product Identification or Authentication
- Medical Equipment or Consumables
- Access Control, Digital Door Locks
- Sharing of Electronic Business Cards

Physical Characteristics

Dimension	20 mm W x 3.0 mm H x 23.5 mm L
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• Electrical Characteristics

Supply Voltage	DC +5V ±5%
Power On (Max.)	90mA
Operation (Max.)	85mA

Performance

Operating Frequency	13.56 MHz
Compliance	ISO14443 Type A & B
	ISO 15693
	Mifare
	Felica
Operating Distance	Up to 50 mm (depends on the tag type)

Model

Model	Function	13.56 MHz
RFM811	Read Card UID only	ISO14443 Type A & B /MIFARE, ISO15693/Felica
RFM811M	Mifare read/write (APDU)	MIFARE
RFM811 I	ISO 15693 read/write (NDEF)	ISO15693

Environmental

Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Relative Humidity	20% to 95% (Non-condensing)

• Optional Support Kit

Antenna, with Various Size

Flat FPC (flexible printed circuitry) cable, to connect RFM811 and interface board

Interface Board (50 mm W x 5.7 mm H x 35 mm L) with output connector

USB or RS-232 Interface Cable, to connect interface board and host

Note: an adopter to supply power to RS-232 interface cable is also available

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