

1. General description

It is an contactless reader module based on the MFRC522 from NXP B.V.. Communication Via Serial makes it simple and easy-using. Compatible with ISO/IEC 14443 A/MIFARE cards, it supports all variants of the MIFARE Mini, MIFARE 1K, MIFARE 4K, MIFARE Ultralight, MIFARE DESFire EV1 and MIFARE Plus RF identification protocols, and the operating distance in Read/Write mode is up to 40 mm.

This module could be used in a variety of applications: Access management, Tracking of goods, Tracking of persons and animals, Toll collection and contactless payment, Machine readable travel documents, Smartdust (for massively distributed sensor networks), Tracking sports memorabilia to verify authenticity, Airport baggage tracking logistics and etc.

Please note: MFRC522 IC working voltage of 3.3V, the power to the module, do not mistake the input voltage!

2. Features

- Power supply 3.3 V/5V
- Support ISO/IEC 14443 A/MIFARE
- Support mifare1 S50、mifare1 S70、mifare UltraLight、mifare Pro、mifare Desfire
- Operating distance in Read/Write mode up to 40 mm
- FIFO buffer handles 64 byte send and receive
- SPI interface
- Working current 13~26mA
- Idle current 10—13mA
- Working temperature -25 ~ 85°C
- Size 71.00mm×40.90mm

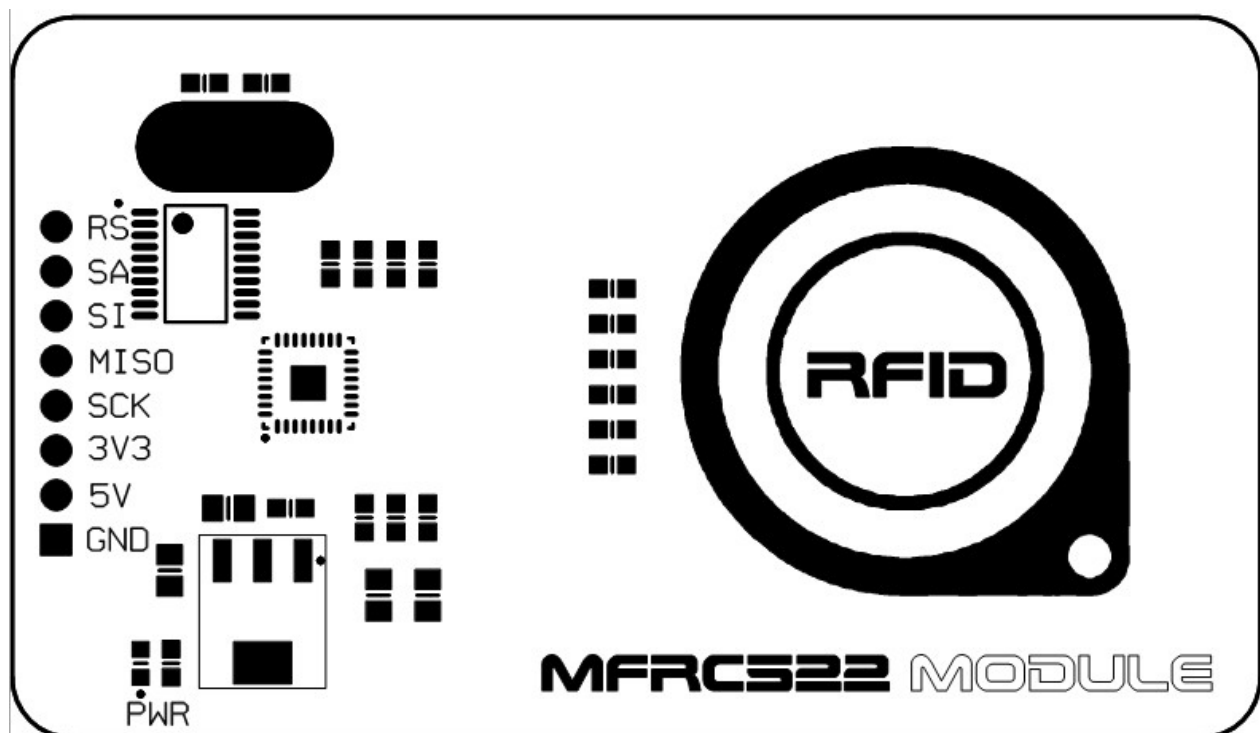
3. Applications

- Production progress tracking,warehouse stock tracking
- Personal identification
- Car transponder
- Access Control System

4. Electrical Characteristics

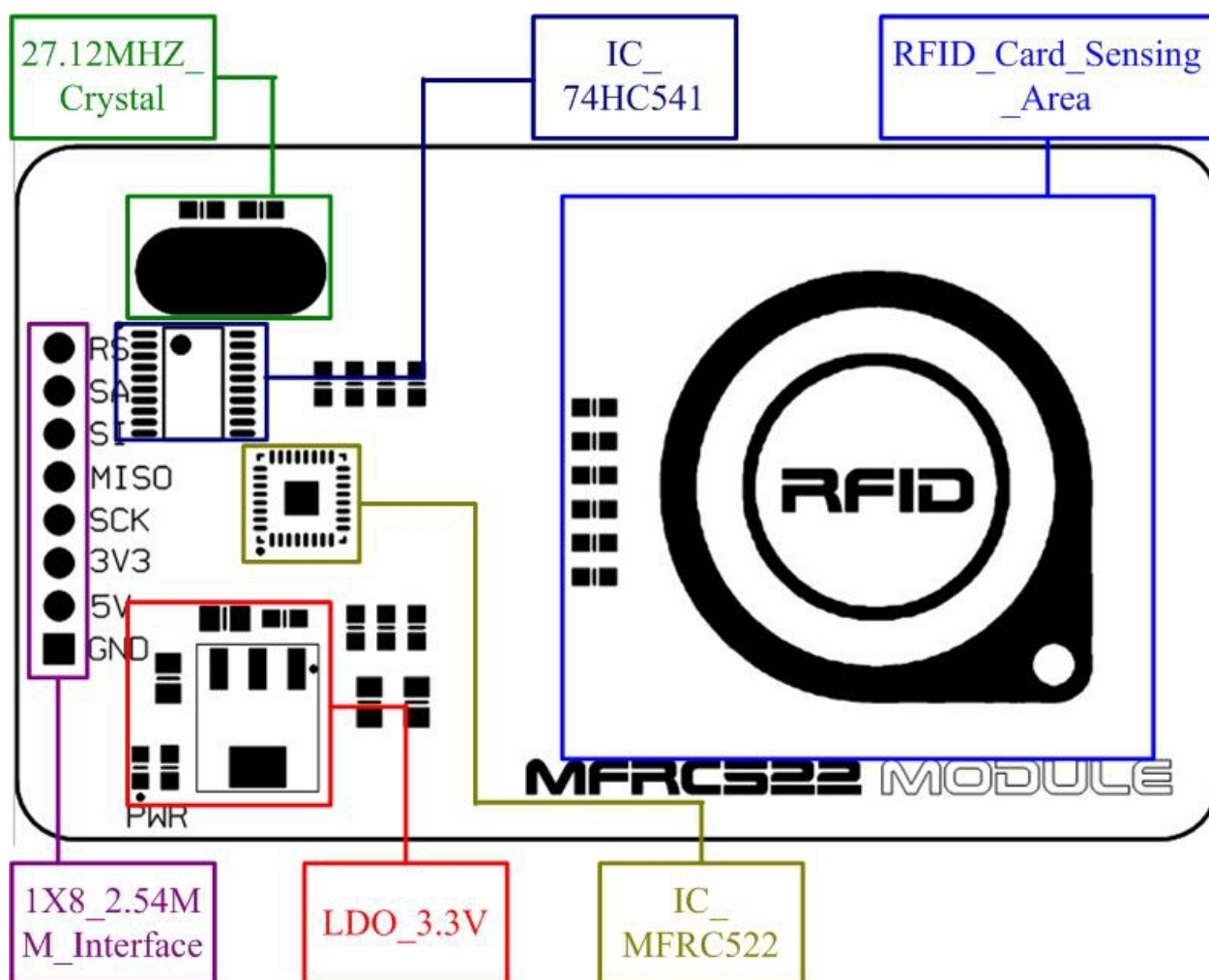
PARAMETER	MIN	TYP	MAX	UNIT
Power Supply Voltage	-	5/3.3	-	V
Working current	13		26	mA

5. Pining information

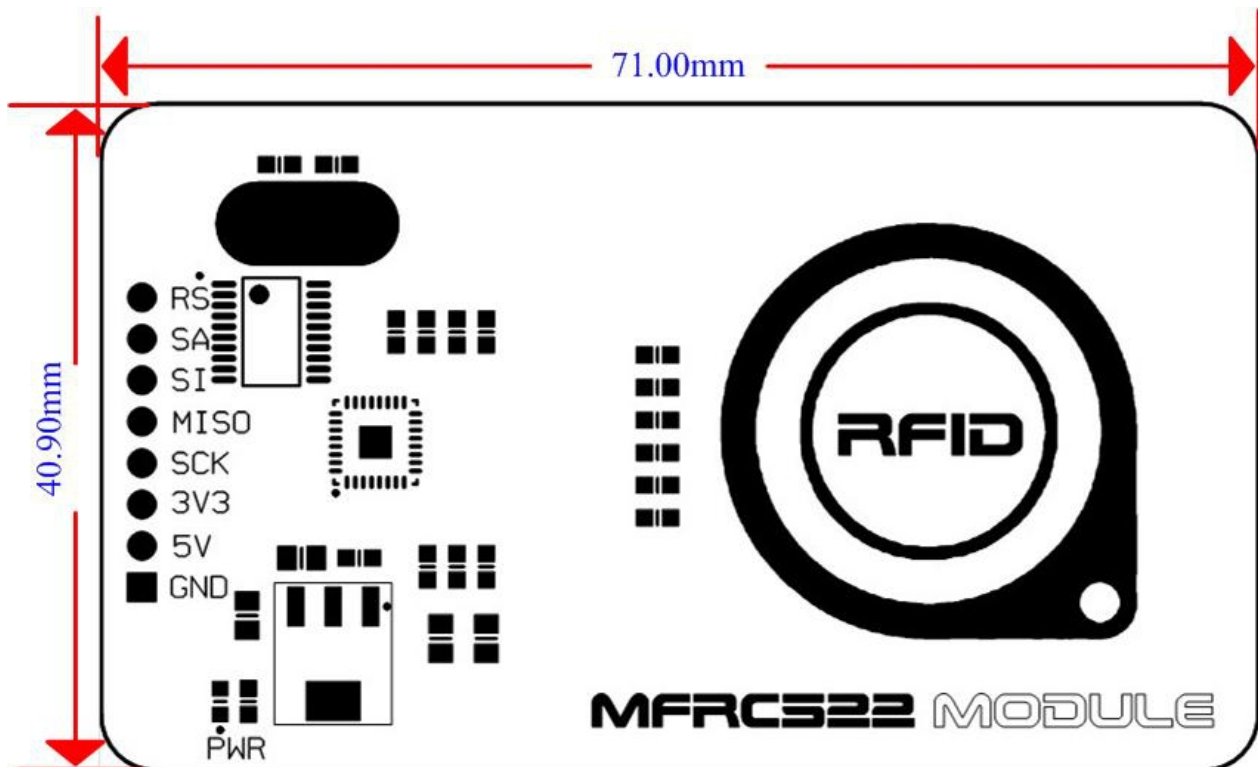


Types	Symbol	Description
MFRC522 MODULE PIN	3V3	POWER Supply 3V3
	5V	POWER Supply 5V
	GND	POWER Ground
	SCK	SPI Interface
	MISO	SPI Interface
	SI(MOSI)	SPI Interface
	SA(CS)	Serial Data Interface
	RS(NRSTPD)	Not Reset And Power-Down

6. Interface description



7. Dimension outline



8. Revision history

REVISION	DESCRIPTION	RELEASE DATE
V1.0	Initial version	11/02/2013

9. Contact information

For more information, please visit: <http://www.elecbreaks.com>

For sales office addresses, please send an email to: service@elecbreaks.com