

MIFARE & ISO14443A CONTACTLESS IC CARD READ/WRITE READER MODULE

JMY628A IC Card Reader

User's manual

(Revision 3.50)

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Please read this manual carefully before using. If any problem, please mail to: Jinmuyu@vip.sina.com



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1 Product introduction

JMY628A is a RFID read/write module with UART, IIC or USB port. JMY628A has various functions and supports multi ISO/IEC standard of contactless cards. The RF protocol is complex, but the designer combined some frequent used command of RF card and then users could operate the cards with full function by sending simple command to the module.

The module and antenna is integrated. The impedance between RF circuit and antenna was tuned by impedance analyzer, and then the module has excellent performance and stability.

2 Characteristics

- PCD model: NXP RC522
- Working frequency: 13.56MHz
- Supported standard: ISO14443A, Mifare Classic
- Card supported: Mifare 1K/4K, FM11RF08, Ultra Light, DesFire, Mifare ProX, T=CL CPU cards(ISO14443-4 TypeA).
- Anti collision ability: Full function anti collision; be able to process multi-cards; be able to set operate single card only
- Auto detecting card: Supported, default OFF. The default state can be set.
- SAM baud rate: 9600bps/38400bps/19200bps(default)/115200bps/57600bps.
- EEPROM: 512 Bytes
- Power supply: DC 5V ($\pm 0.5V$)
- Interface: IIC/UART//USB HID (select when place order)
- Communication rate:
 - IIC: 400Kbps
 - UART: 19.2Kbps/115.2Kbps
 - USB: USB 1.1 HID class
- Max. command length: JCP04 254 Bytes; JCP05 510 Bytes.
- Interface level: UART/IIC: 3.3V (TTL level; 5V tolerance)
- Power consumption: 150mA
- Operating distance: 80mm (depending on card and antenna design)
- Dimension: 50mm*50mm*7.5mm
- Weight: About 20g
- ISP: Supported
- Operating temperature: -25 to +85 °C
- Storage temperature: -40 to +125 °C
- RoHS: Compliant



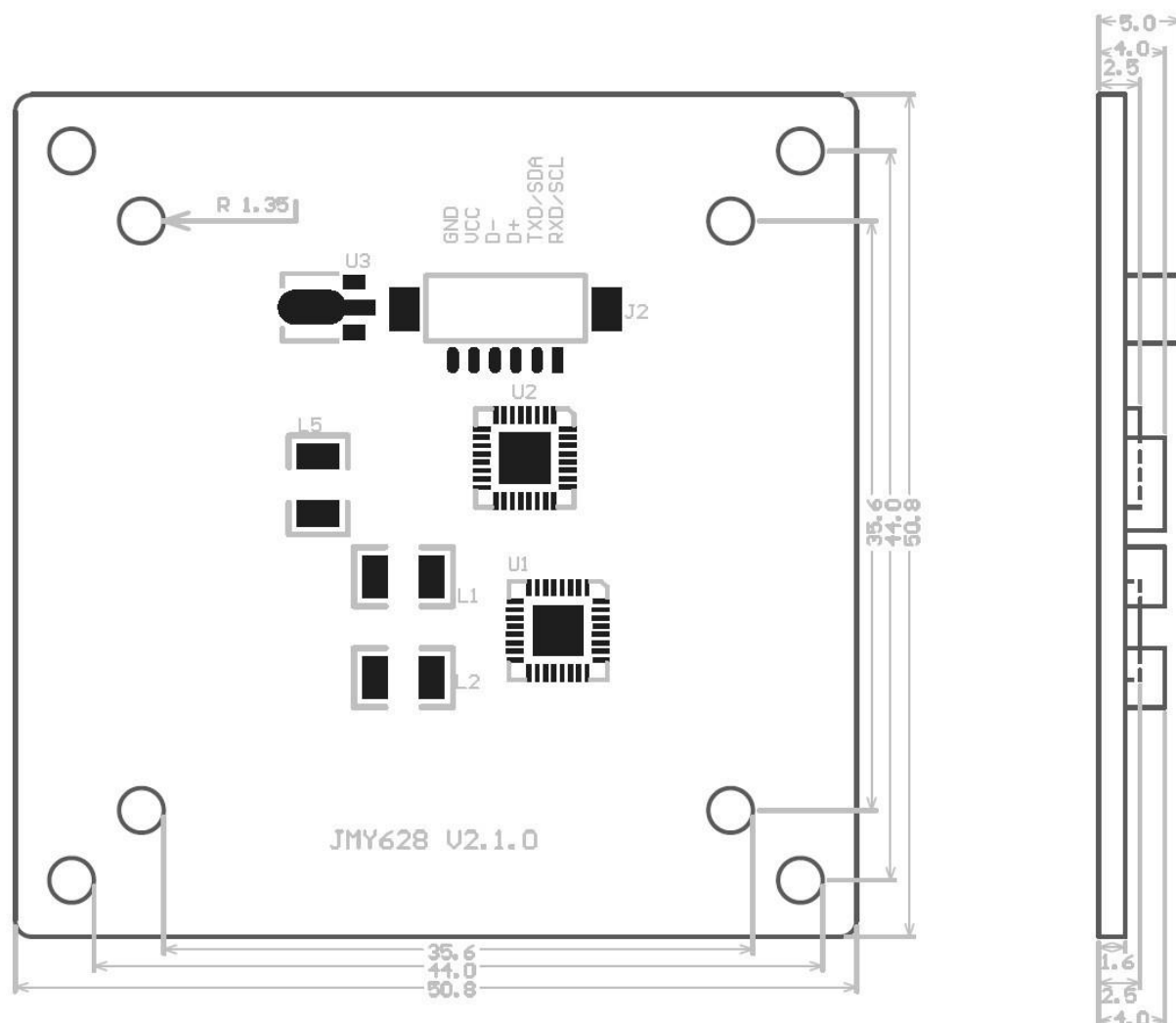
3 Physical parameter and pin outs

3.1 Photo





3.2 Dimension



3.3 Pin configurations and Pin outs

Pin number	Function	Type	Description
1	RXD/SCL	Input	UART RXD / IIC SCL
2	TXD/SDA	Input/output	UART TXD / IIC SDA
3	D+	Input/output	USB D+
4	D-	Input/output	USB D-
5	VCC	Power	VCC
6	GND	Power	GND



3.4 Model available

- JMY628AI IIC interface
- JMY628AT UART interface, TTL level

3.5 Model rule

3.5.1 Model format

1	2	3	4
JMY	628	X	X

1: company code; 2: product series code; 3: card operating type; 4: communication port type

3.5.2 Card operating type

A: PCD is RC522, support ISO14443A and Mifare Class

C: PCD is RC523, support ISO14443A, ISO14443B and Mifare Class

3.5.3 Communication port

I: IIC

T: UART

U: USB(USB 1.1 HID class)