

NFC & MIFARE & ISO14443A & ISO14443B & ISO15693 IC CARD MODULE

JMY6804 IC Card Reader

User's manual

(Revision 1.00)

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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

JMY6804 is a series of RFID read/write module. It has various functions and supports multi ISO/IEC standard of contactless card. The RF protocol is complex, but the designer combined some frequent used command of RF card and then user could operate the cards with full function by sending simple command to the module.

The impedance between RF module and antenna was tuned by impedance analyzer. And then the module has excellent performance and stability.

2 Key Characteristics

- Ferrite plate under the antenna, good performance for metal-around environments
- EMV2010 certification ability in RF protocol part
- 2 SAM slots, full fill payment system usage
- USB HID interface, convenience to use on PC

3 Characteristics

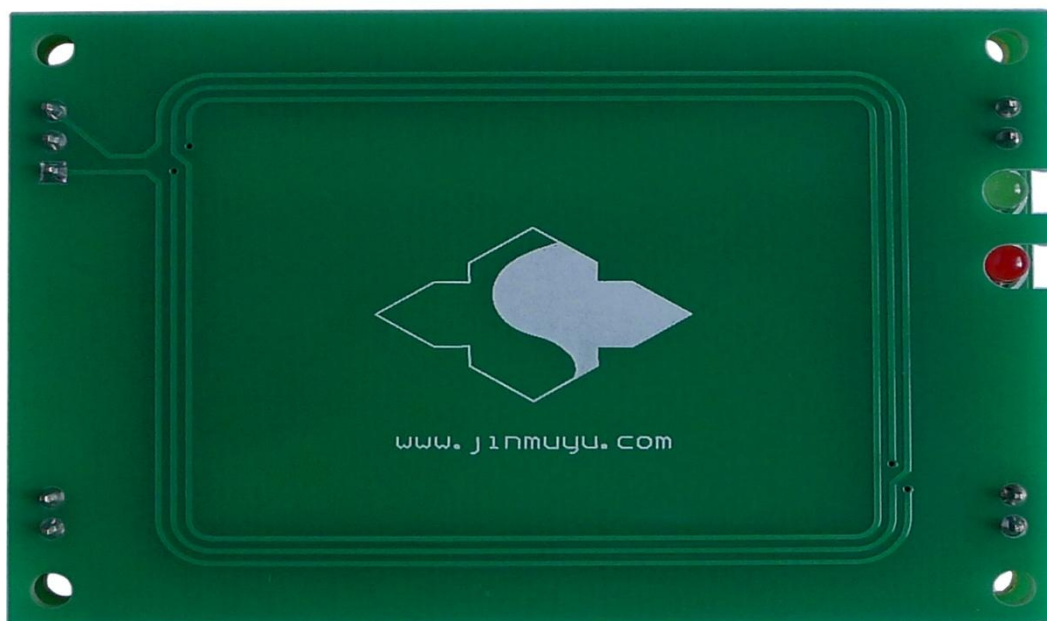
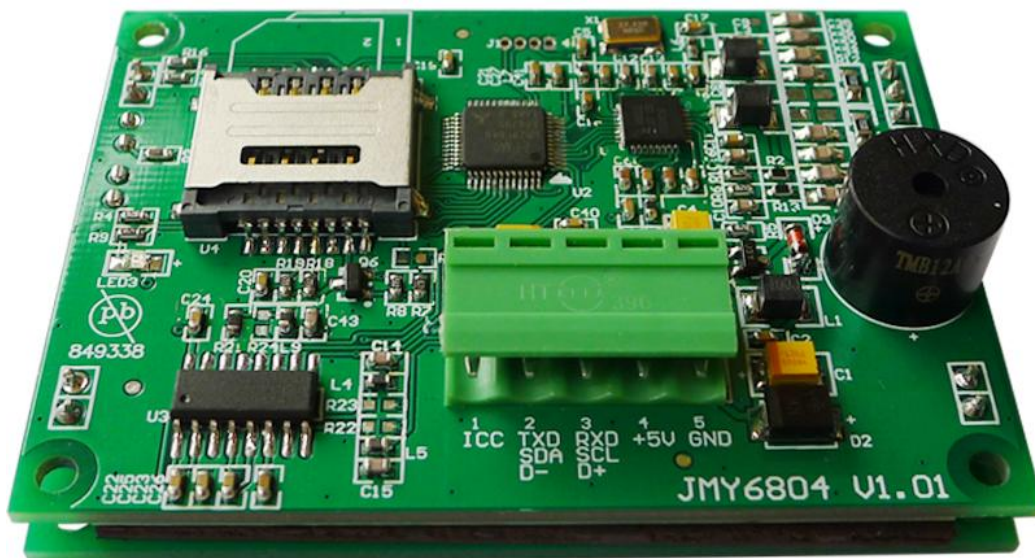
- PCD model: NXP CL RC663
- PCB Layers: 4
- Working frequency: 13.56MHz
- Supported standard: ISO14443A, ISO14443B, ISO15693, ISO7816,NFC
- Anti collision ability: Full function anti collision; be able to set multi-cards or single card
- Auto detecting card: Supported, default OFF, could be set
- SAM slots: 2, T=0 & T=1 9600, 19200, 38400, 55800, 57600, 115200bps
- Data FLASH: 512 Bytes
- Power supply: DC 5V ($\pm 10\%$)
- Interface: USB HID, RS232C, UART or IIC by order
- Communication speed:
 - IIC: Max.200Kbps
 - UART: 19200bps, 9600bps, 38400bps, 57600bps, 115200bps
 - USB: 2.0 HID class
- Interface level: UART / IIC 3.3V (5V tolerance)
- Max. command length:
 - JCP04: 253bytes
 - JCP05: 510bytes
- Power consumption: Max. 150mA
- Operating distance: 70mm (M1 typical distance, depending on card quality)
- Dimension: 70mm * 50mm * 16.5mm



- Weight: About 120g
- ISP: Supported
- RoHS: By order
- Operating temperature: -25 to +85 °C
- Storage temperature: -40 to +125 °C

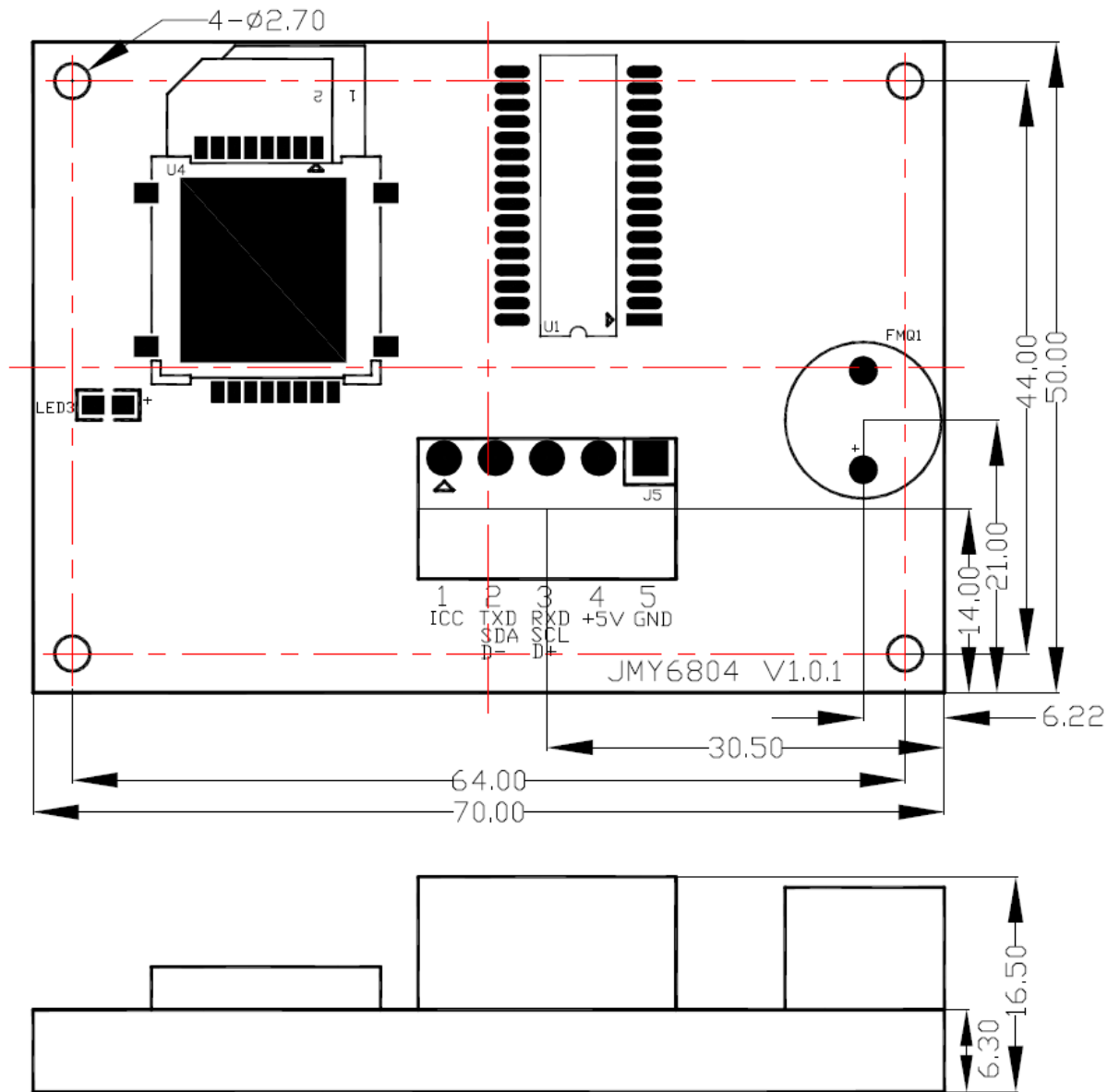
4 Physical Parameter and Pin Outs

4.1 Photo





4.2 Dimension



4.3 Pin configurations and Pin outs

Pin number	Function	Type	Description
1	ICC	Output	Card in/out indication 0: Card IN; 1: Card OUT
2	TXD/SDA	Input/output	RS232C TXD / UART TXD / IIC SDA/ USB D+
3	RXD/SCL	Input	RS232C RXD / UART RXD / IIC SCL/ USB D-
4	VCC	Power	VCC
5	GND	Power	GND



4.4 Module Function Configuration Table

	JMY6804
PCD	RC663
JCP04 Communication Protocol	●
JCP05 Communication Protocol	●
MIFARE 1K	●
MIFARE 4K	●
MIFARE Ultra Light	●
MIFARE Ultra Light C	●
MIFARE Mini	●
MIFARE DESfire (Step Commands)	●
MIFARE Plus	●
T=CL TYPE A	●
SR176	●
SRI512	●
SRI1K	●
SRI2K	●
SRI4K	●
SRIX4K	●
T=CL TYPE B	●
I.CODE 1	●
I.CODE SLI	●
I.CODE SLI-S	●
TI Tag-it Series	●
ST LRI Series	●
NFC Active Initiator	-
NFC Active Target	-
NFC Passive Initiator	●
NFC Passive Target	-
NFC Card	-
SAM slots	
ISO7816 (T=0 & T=1)	●
On Chip Data Flash	512 bytes
IIC Interface	JMY6804I
USB Interface	JMY6804U
UART Interface	JMY6804T
RS232C Interface	JMY6804S



5 Communication Protocols

The physical interfaces of module are various. But the data link layer protocols are in accordance with JCP04 and JCP05. Please reference "JMY600 Series IC Card Module General Technical Manual".

For convenience to test the Module, we supply PC software: TransPort to users.

We have interface program source code to help users also. They are KELL projects in C51 or ASM51 format.

Please log in our website: www.jinmuyu.com to download or mail to jinmuyu@vip.sina.com to obtain the resources.