

JMY602F 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

JMY602F is a RFID read/write module with UART, IIC, RS232C or USB port. JMY602F 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 modules build in SAM slot. It could operate contact smart card according to ISO7816.

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 CL RC632
- Working frequency: 13.56MHz
- Supported standard: ISO14443A, ISO14443B, ISO15693, ISO7816
- Card supported: Mifare 1K/4K, FM11RF08, Ultra Light, DesFire, Mifare ProX, SRI176, SRI512, SRI1K, SRI2K, SRI4K, SRIX4K, T=CL CPU cards(both ISO14443A & ISO14443B) , TI Tag It, I. Code SLI, ST LRI and other tags according to ISO15693, and ISO7816 SAM cards (both T=0 & T=1)
- 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 status can be set
- SAM slot: 1 slot
- SAM baud rate: 9600bps/38400bps
- ISO7816 PPSS set: supported
- EEPROM: 512 Bytes
- Power supply: DC 5V ($\pm 0.5V$)
- Interface: IIC/UART/RS232C/USB (select when place order)
- Communication rate: IIC: 400Kbps
UART/RS232C/USB: 19.2Kbps/115.2Kbps
- Max. command length: 511 Bytes
- Interface level: UART/IIC: 3.3V (TTL level; 5V tolerance)
- Static power consumption: 150mA
- Operating distance: 80mm (depending on card)
- Dimension: 100mm×70mm×10.2mm
- Weight: About 120g
- ISP: Supported
- Operating temperature: -25 to +85 °C
- Storage temperature: -40 to +125 °C
- RoHS: Compliant

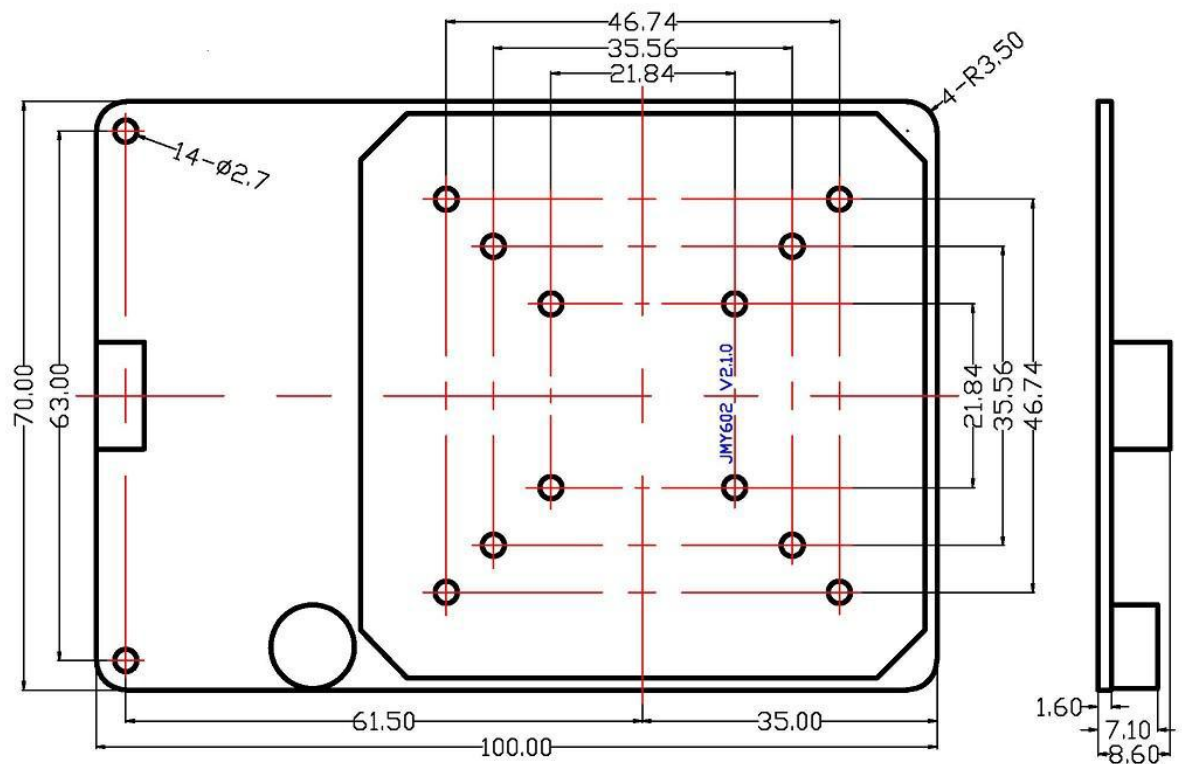


3 Physical parameter and pin outs

3.1 Photo



3.2 Dimension





3.3 Pin configurations and pin outs

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

3.4 Model available

- JMY602FI IIC interface
- JMY602FT UART interface, TTL level
- JMY602FS RS232C (UART interface, RS232 level)
- JMY602FU USB to UART Bridge (Mini USB port with 5 pins)

3.5 Model rule

3.5.1 Model format

1	2	3	4
JMY	602	X	X

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

3.5.2 Card operating type

M: PCD is RC500, support Mifare Class

A: PCD is RC500, support ISO14443A and Mifare Class

C: PCD is RC531, support ISO14443A, ISO14443B and Mifare Class

G: PCD is RC400, support ISO15693

H: PCD is RC632, support ISO15693, ISO14443A, ISO14443B and Mifare Class

D: PCD is RC500, support ISO14443A and Mifare Class with 511 bytes communication buffer

E: PCD is RC531, support ISO14443AB and Mifare Class with 511 bytes communication buffer

F: PCD is RC632, support ISO15693, ISO14443A, ISO14443B and Mifare Class with 511 bytes communication buffer

3.5.3 Communication port

I: IIC

T: UART

S: RS232C

U: USB