

MIFARE & ISO14443A & ISO14443B & ISO15693 IC CARD READ/WRITE MODULE

JMY6011 IC Card Read/Write Module

User's Manual

(Revision 1.0.0)

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2020/7/2



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



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1 Product introduction

JMY6011 is a series of RFID read/write module with UART or IIC and USB HID communication ports. JMY6011 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 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 Key Characteristics

- Modules integrated antenna, excellent consistency and stability
- Light and slim
- RF protocol in accordance with EMV2010

3 Technical parameters

- PCD type: NXP RC663
- Working frequency: 13.56MHz
- Supported standard: ISO14443A, ISO14443B, ISO15693
- Card supported: see: [module function configuration table](#)
- 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
- Data FLASH: 512 Bytes
- Power supply: DC 5V ($\pm 10\%$)
- Interface: UART, IIC or USB HID on order
- Communication speed: IIC Max. 200Kbps
UART 19200bps / 9600bps / 38400bps / 57600bps / 115200bps
USB 2.0HID
- Max. command length: JCP04 253 bytes
JCP05 510 bytes
- Interface level: UART / IIC: 3.3V (TTL level; 5V tolerance, by pull up)
- Power consumption: 150mA
- Operating distance: 90mm (M1 typical distance, depending on card quality)
- Dimension: 60mm*60mm*5.7mm
- Weight: About 20g
- ISP: Supported
- RoHS: Compliant



- Operating temperature: -25 to +85 °C
- Storage temperature: -40 to +125 °C

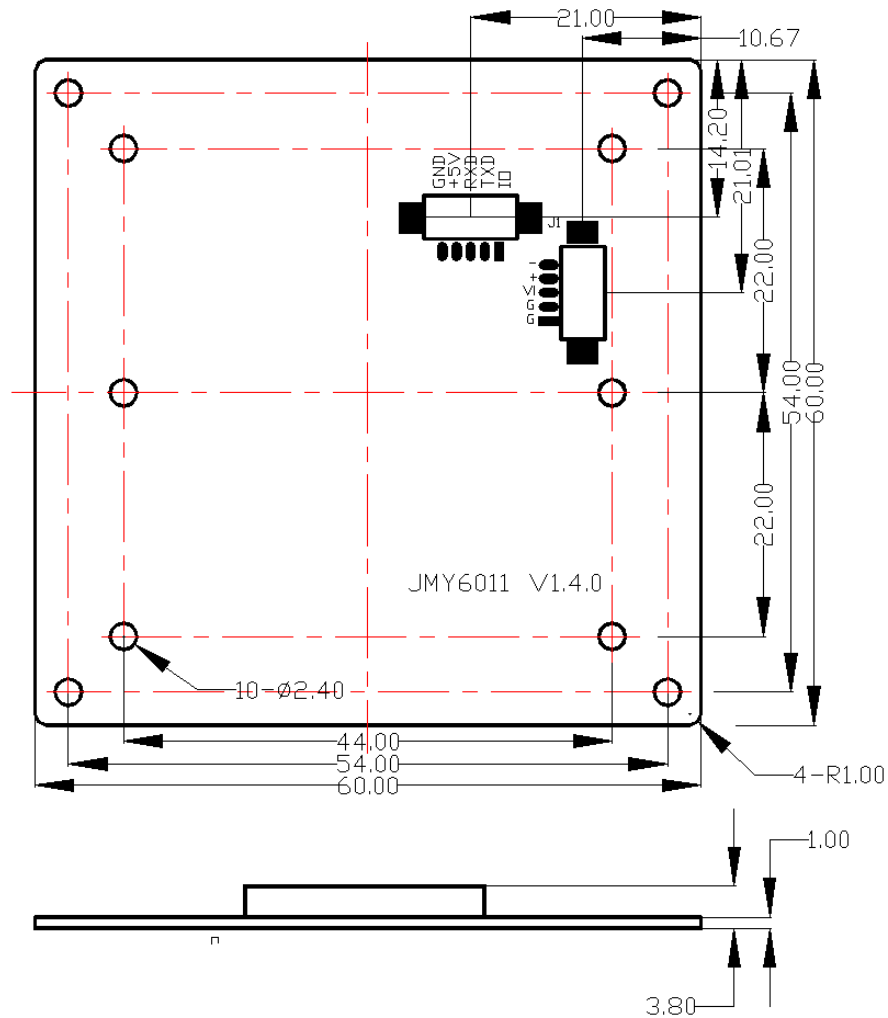
4 Physical parameter and pin outs

4.1 Photo





4.2 Dimension



4.3 Pin configurations and pin outs

| PIN | Function | Type | Description |
|-----|-----------|---------------|------------------------|
| J1 | | | |
| 1 | IO | Output | Card present indicator |
| 2 | TXD / SDA | Input /Output | UART TXD / IIC SDA |
| 3 | RXD / SCL | Input | UART RXD / IIC SCL |
| 4 | VCC | Power | VCC |
| 5 | GND | Power | GND |
| J2 | | | |
| 1 | GND | Power | GND |
| 2 | GND | Power | GND |
| 3 | VCC | Power | VCC |



| | | | |
|---|----|---------------|--------|
| 4 | D+ | Input /Output | USB D+ |
| 5 | D- | Input /Output | USB D- |
| | | | |

4.4 Module function configuration table

| | JMY6011H |
|---|-----------|
| PCD | RC663 |
| JCP04 Protocol | ● |
| JCP05 Protocol | ● |
| | |
| MIFARE 1K | ● |
| MIFARE 4K | ● |
| MIFARE Ultra Light | ● |
| MIFARE Ultra Light C | ● |
| MIFARE Mini | ● |
| MIFARE DES fire (Discrete instructions) | ● |
| 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 Passive Initiator | ● |
| On Chip Data Flash | 512 bytes |
| IIC Interface | JMY6011HI |
| UART Interface | JMY6011HT |
| USB Interface | JMY6011HU |



5 Operate the module

The physical interfaces of module are various. But the data link layer protocols are in accordance with JCP04 & JCP05. Please reference “JMY600 series general communication protocol manual.pdf”. 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 on to our website: <http://www.jinmuyu.com> to download or mail to jinmuyu@vip.sina.com to obtain the resources.