

# JMY6281 IC Card Read/Write Module

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## User's Manual

(Revision 5.03)

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# 1 Product introduction

JMY6281 is integrated designing. The impedance between RF module and antenna was tuned by impedance analyzer. And then the module has excellent performance and stability.

JMY6281 has various functions and supports multi ISO/IEC standard of contactless card. The RF protocol is complex. 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.

JMY6281 support NFC functions: Peer to Peer; Card Mode (PICC); Reader (PCD-VCD).

## 2 Key Characteristics

- **Modules integrated antenna, excellent consistency and stability**
- **Light and slim**
- **NFC target and NFC tag support**
- **USB HID interface, convenience to use on PC**

## 3 Technical parameters

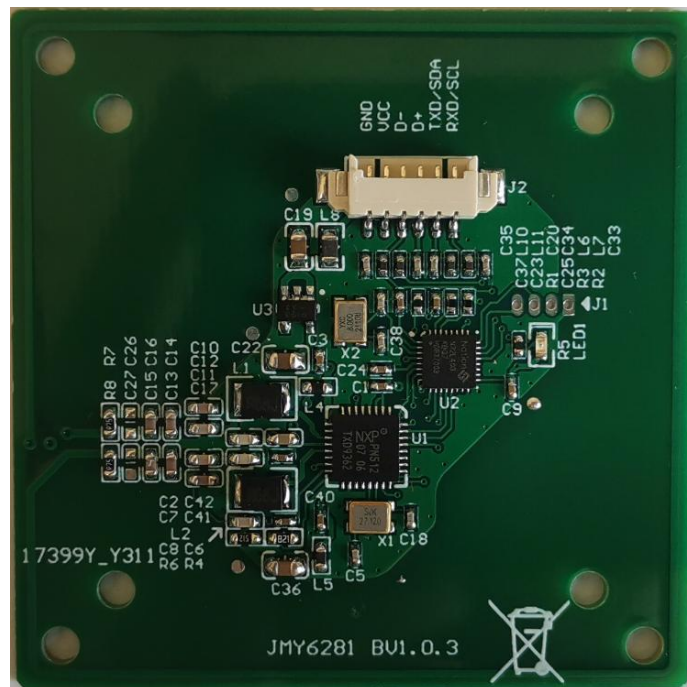
- PCD type: PN512;MF CV520/FM17580
- Working frequency: 13.56MHz
- Supported standard: ISO14443A, ISO14443B,NFC
- Card supported: see: [module function configuration table](#)
- Anti collision ability: Full function anti collision; be able to set multi-cards or single card
- Auto detecting card: Supported, default OFF, could be set
- Data FLASH: 512 Bytes
- Power supply: DC 5V ( $\pm 10\%$ )
- Interface: USB HID and UART or IIC on order
- Communication speed: IIC Max. 200Kbps  
UART 19200bps / 9600bps / 38400bps / 57600bps / 115200bps  
USB 2.0 HID class
- Max. command length: JCP04 253 bytes  
JCP05 510 bytes
- Interface level: UART / IIC: 3.3V (TTL level; 5V tolerance, by pull up)
- Power consumption: 100mA
- Operating distance: 50mm (M1 typical distance, depending on card quality)
- Dimension: 50.8mm \* 50.8mm \* 7.5mm
- Weight: About 20g
- ISP: Supported
- RoHS: Compliant



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

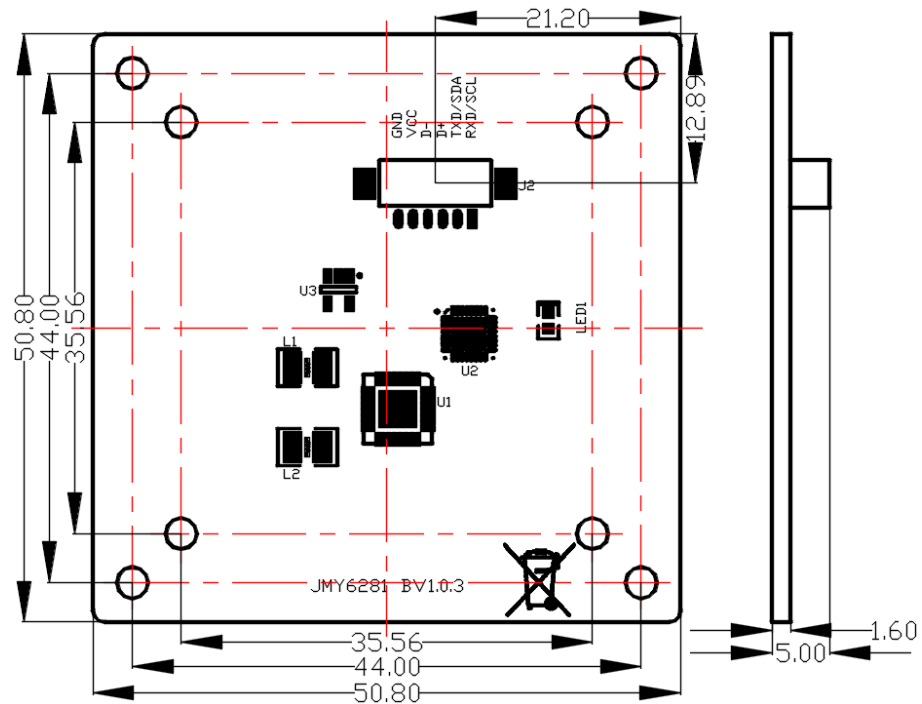
## 4 Physical parameter and pin outs

### 4.1 Photo





## 4.2 Dimension



## 4.3 Pin configurations and pin outs

PIN	Function	Type	Description
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



## 4.4 Module function configuration table

	JMY6281A	JMY6281N
PCD	MF RC522//FM17580	PN512
JCP04 Protocol	●	●
JCP05 Protocol	●	●
MIFARE 1K	●	●
MIFARE 4K	●	●
MIFARE Ultra Light	●	●
MIFARE Ultra Light C	●	●
MIFARE Mini	●	●
MIFARE DESfire	●	●
MIFARE Plus	●	●
T=CL TYPE A	●	●
SR176		●
SRI512		●
SRI1K		●
SRI2K		●
SRI4K		●
SRIX4K		●
T=CL TYPE B		●
NFC Active Initiator		●
NFC Active Target		●
NFC Passive Initiator	●	●
NFC Passive Target		●
NFC Tag		●
On Chip Data Flash	512 bytes	
IIC Interface	JMY6281AI	JMY6281NI
UART Interface	JMY6281AT	JMY6281NT
USB HID Interface	JMY6281AU	JMY6281NU

## 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](mailto:jinmuyu@vip.sina.com) to obtain the resources.

## 6 Document update record

Version	Date	Content
V5.00	June 13, 2016	initial version
V5.02	January 24, 2019	Updated copyright to 2019
V5.03	August 18, 2023	Updated copyright to 2023