ThinCloud

TC13QM1 Product

On DP32G003, CI522, 13.56M

PCB On-board antenna

# Catalogue

1. General description：

TC13QM1 module is a standard reading module, support S50 S70 card, expenditure auxiliary IO port output drive signal, support on-board buzzer. The communication interface is TTL, and the level UART interface can be converted into RS232 and RS485 interfaces through RS232 and RS485 adapboards.

2. Product pictures

TC13QM1(Onboard antenna)
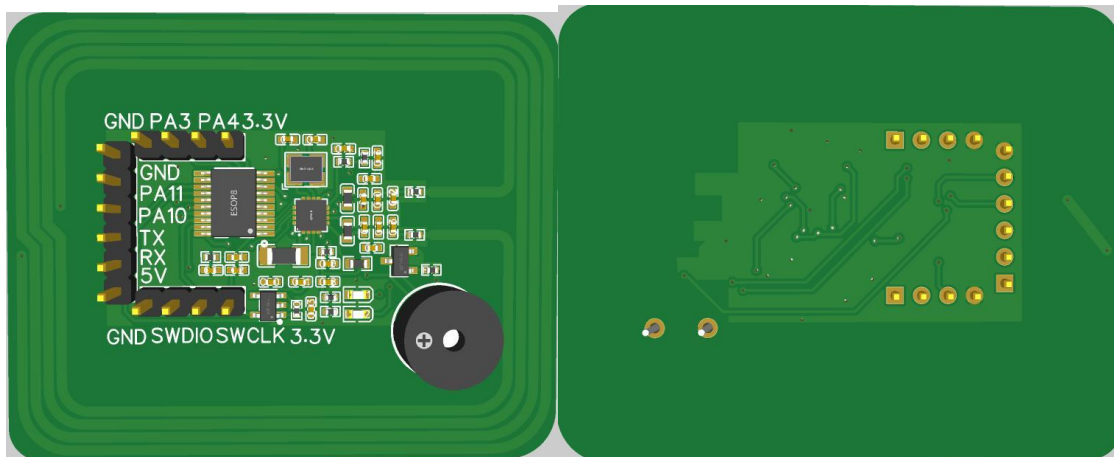
3. Performance characteristics

Card reading agreement:ISO14443-A

Support card:Mifare S50 S70

Reading and writing distance:7 -7.5Centimeters (the maximum read-write distance is related to the size of the antenna and the card antenna)

Communication interface: serial UART(Default baud rate 115200)

Rev1.0

4. Electrical parameters

Symbol	Parameter	Min	Typical	Max	Units
VCC	supply voltage		3.3		V
IDD	Power mean current	0.6	80	100	mA
IDD(P-P)	Power peak current		81.23	100.5	mA
IO VH	Auxiliary IO output at a high level	2	3.3	3.6	V
IO VL	Auxiliary IO output at a low level		0.2		V
F RFID	RF carrier frequency	13.54	13.56	13.56	MHz
Tamb	Working temperature	-25	+25	85	℃
Tstg	Storage temperature	-40	+25	+100	℃
V ESD	Electrostatic discharge (HBM manikin)		2000		V
VESD	Electrostatic discharge (CDM with electrical discharge)		500		V

5. Encapsulation size

TC13QM1(Onboard antenna)
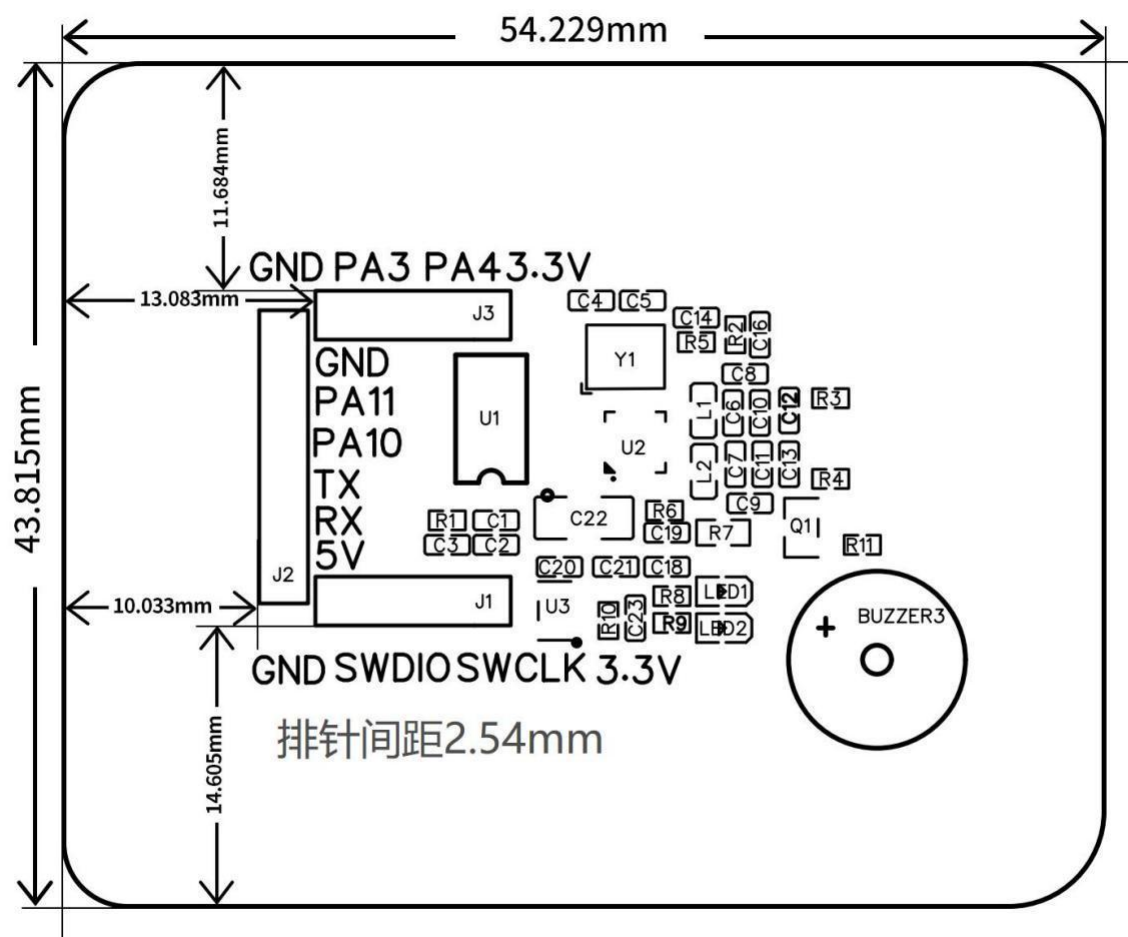
6. pin description

Symbol	Function	Depict
GND	Power to	Power anode
3.3V	Power positive pole	Power positive pole 3.3V
5V	Power positive pole	Power positive pole 5V
PA3	Hold	Keep the IO port
PA4	Hold	Keep the IO port
PA10	Hold	Keep the IO port
PA11	Hold	Keep the IO port
SWDIO	Burning mouth	JTAG burn the data line
SWCLK	Burning mouth	JTAG burns the time clock line
TX	Module end TX	Data output feet of the module UART interface
RX	Module end RX	Data receiving foot of the module UART interface

7. Application Schematic

TC13QM1 Application schematic diagram
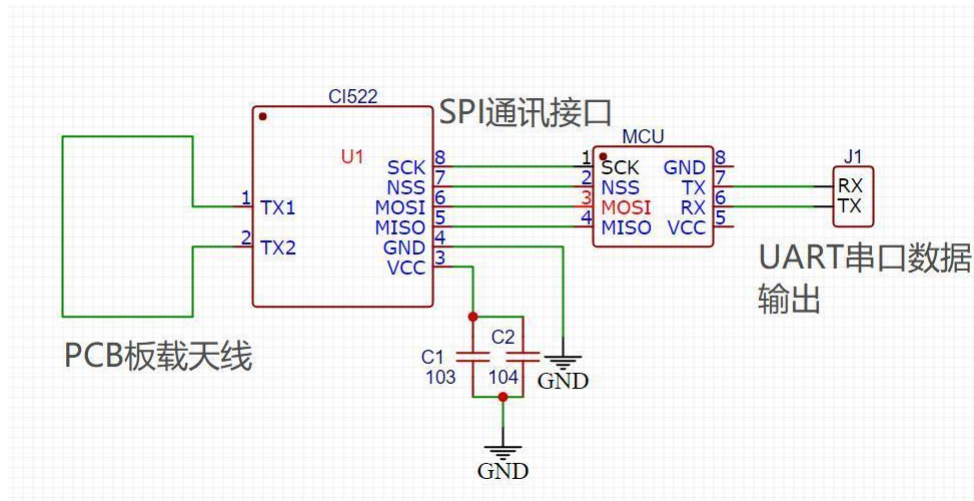
8. USB turn serial port module debugging wiring diagram
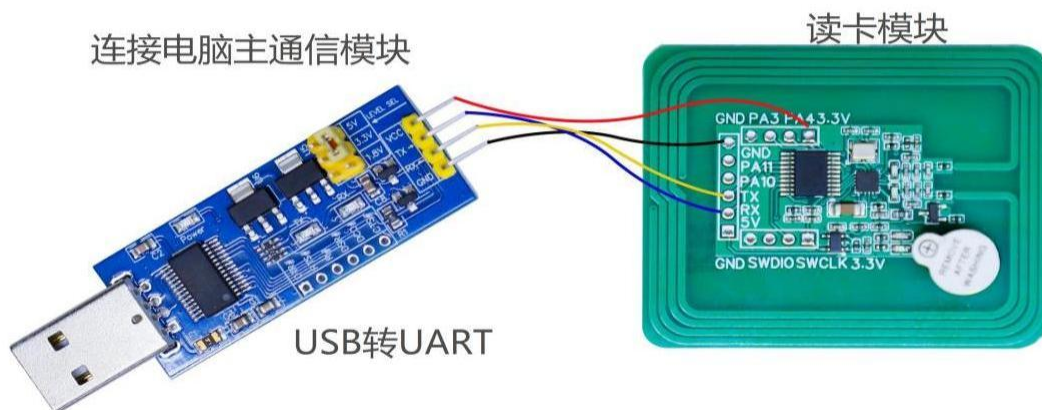
Wiring method:
The 3.3V is connected to the VCC
GND is is connected to the GND
TX come into contact with RX
RX come into contact with TX

9. Application scenarios

Access card identification
Lock card recognition
Community access control system
Hotel management access control system
Office building access control system
Security confidentiality department access control management

10. Contact us

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