

ThinDCloud

TC13QM1 Product

On DP32G003, CI522, 13.56M

PCB On-board antenna

Catalogue

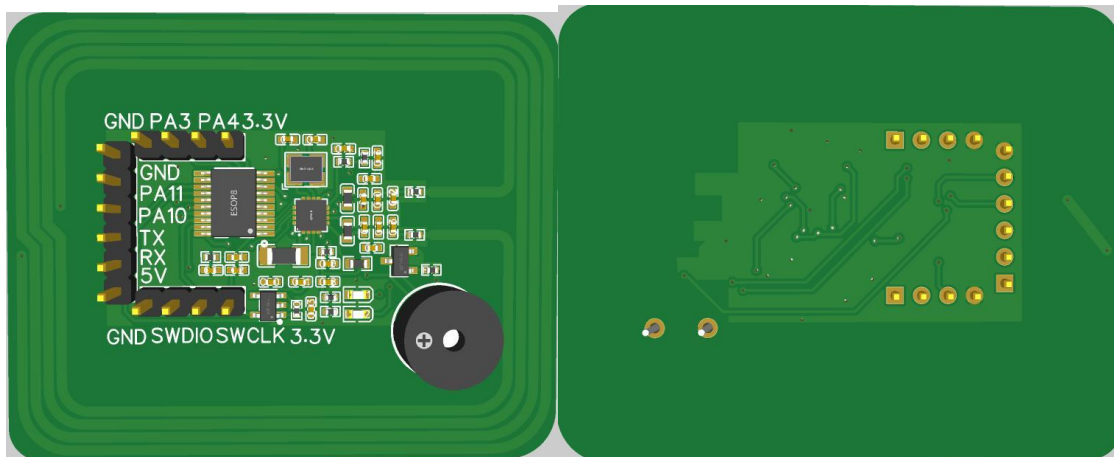
1. GENERAL DESCRIPTION:	2
2. PRODUCT PICTURES	2
3. PERFORMANCE CHARACTERISTICS	2
4. ELECTRICAL PARAMETERS	3
5. ENCAPSULATION SIZE	4
6. PIN DESCRIPTION	5
7. APPLICATION SCHEMATIC	6
8. USB TURN SERIAL PORT MODULE DEBUGGING WIRING DIAGRAM	6
9. APPLICATION SCENARIOS	7
10. CONTACT US	8

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: IS014443-A

Support card: Mifare S50 S70

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

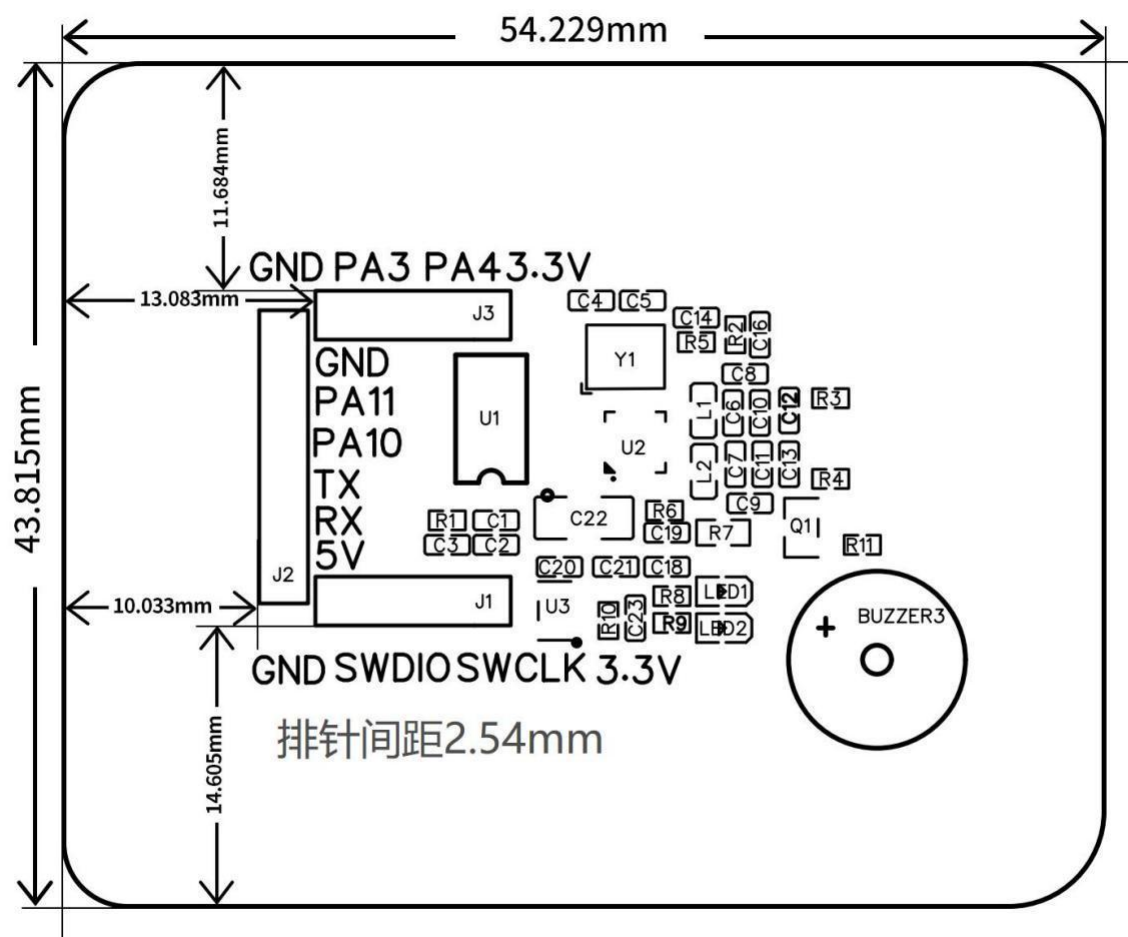
Communication interface: serial UART (Default baud rate 115200)

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	°C
Tstg	Storage temperature	-40	+25	+100	°C
V ESD	Electrostatic discharge (HBM manikin)		2000		V
VESD	Electrostatic discharge (CDM with electrical discharge)		500		V

5. Encapsulation size

TC13QM1 (Onboard antenna)

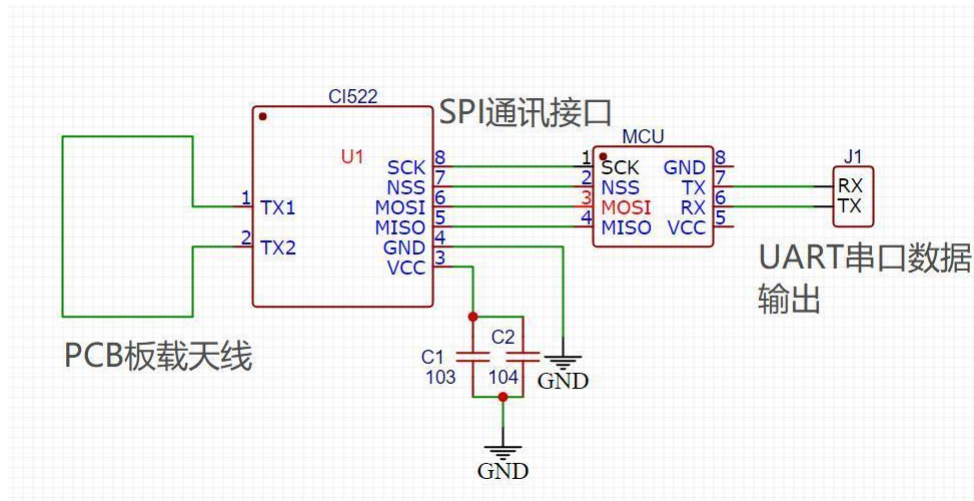


6. pin description

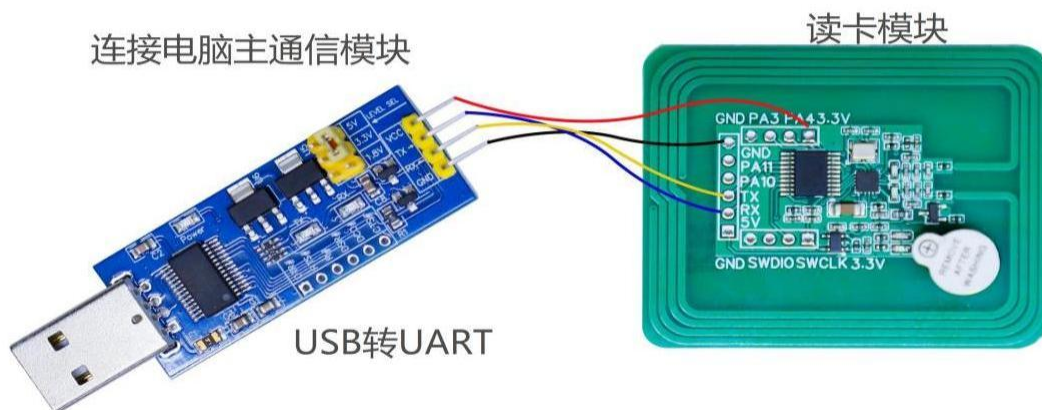
Symbol	Function	Depict
GND	Power to	Power anode
3.3V	Power positive pole	Power positive pole 3.3V
5V	Power positive pole	Power positive pole 5V
PA3	Hold	Keep the IO port
PA4	Hold	Keep the IO port
PA10	Hold	Keep the IO port
PA11	Hold	Keep the IO port
SWDIO	Burning mouth	JTAG burn the data line
SWCLK	Burning 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

SHENZHEN CITY CLOUD THINK TECHNOLOGY CO.,LTD.

Add: Room 512, Building 6, Shenzhen Bay Science and Technology Ecological Park, Shahe West Road, Yuehai Street, Nanshan District, Shenzhen

Tel: 0755-82519954

Fax: 0755-82519954

Website: www.yxkjzh.com

Email: huangzp@yxkjzh.com

Postcode: 518031

All rights reserved: SHENZHEN CITY CLOUD THINK TECHNOLOGY CO.,LTD.

SHENZHEN CITY CLOUD THINK TECHNOLOGY CO.,LTD.. (Hereinafter referred to as "CLOUD THINK") We reserve the right to change, correct, enhance, modify the CLOUD THINK Products and/or this document at any time without prior notice. Without the written permission of the Company, no unit or individual may extract, copy or disseminate the contents of this document in any form. This document may be updated from time to time due to product version upgrade or other reasons. CLOUD THINK products are not recommended for use in life-related equipment and systems, and CLOUD THINK is not responsible for any loss caused by equipment or system failure during the use of this device.