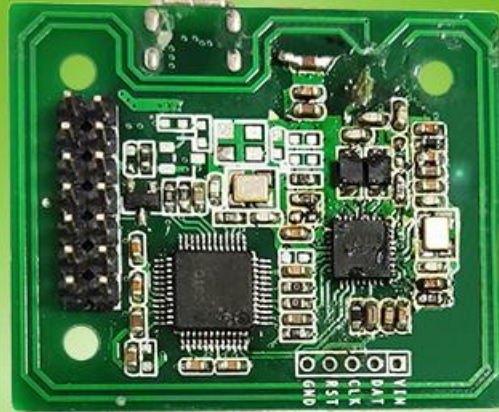


ICM451 Series

IC Module



Overview

ICM451 module is a 13.56MHz long-distance national secret algorithm card reader module. It adopts a dedicated non-contact communication chip with stable performance and powerful functions. Comply with ISO/IEC14443A, ISO/IEC15693 international standards, support SM7 algorithm contact PSAM card operation, ensure high system security. The module provides TTL and USB interface options, and adopts antenna integrated design, which integrates small size, ease of use and reliability. Can be customized according to customer requirements, widely used in access control system, school management, community management, membership management, asset management, anti-counterfeiting control and other fields.

Models

Models	Interface	Voltage	Cards type
ICM451_V2.02(M267)	TTL、USB	5V	Get UID of S50, S70, Mifare ultralight、CPU (FM1208) card, DESFire card, NTAG213/NTAG216 card、national secret algorithm card

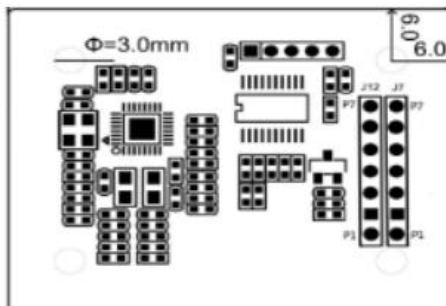
Features

- ◇ Antenna integrated, easy to install;
- ◇ Adopt non-contact communication chip, stable performance and good compatibility;
- ◇ Support ISO/IEC14443A, ISO/IEC15693 protocol, can connect to software demonstration;
- ◇ Various communication interfaces are available: TTL、 USB;
- ◇ Provide demo software and secondary development kit.;
- ◇ Online upgrade and configuration of module card reading parameters through software.

Specifications

Params	Description
Protocol	ISO/IEC14443A, ISO/IEC15693
Frequency	13.56MHz
Baud rate	9600 - 115200bit/s (optional, default 115200bit/s)
Power	DC5V (±5%)
Working current	<100mA
Communication Interface	TTL, USB
module embedding	2.54mm pitch pins
Operating distance	0~50mm (Depends on work environments and card types)
Operating temperature	-10℃~+70℃
storage temperature	-20℃~+80℃
Working humidity	15%~90%
size	44mm×36.6mm×11.9mm (tolerance: ±3mm)
Extra functions	Support online upgrade firmware through serial port or USB. Configure the module card reading parameters through DEMO.

Size



Pin definition

Pin No.	Name	Description
J7		
P1	RES	Reset
P2	VCC	Power
P3	S-D	SAM data
P4	S-R	SAM reset
P5	BUZ	Buzzer
P6	GND	Ground
P7	USB+	USB+
J12		
P1	CLK	SAM clock
P2	VCC	Power 3.3V
P3	RX	UART serial port receiver/I2C interface SDA/Wiegand interface DATA1
P4	TX	UART serial port transmit/I2C interface SCL/Wiegand interface DATA0
P5	LED	LED
P6	GND	Ground
P7	USB-	USB-

TEL: +86-0755-29062099-8018

For more contact methods and product information, please visit our website: www.zkradio.com

Note: The pictures and content above are for reference only. Due to the updating of products, ZKRadio will not be responsible for any disputes caused by the discrepancy between the actual and the specifications. The copyright belongs to ZKRadio Electronic Technology Co., Ltd.



Public WeChat



website