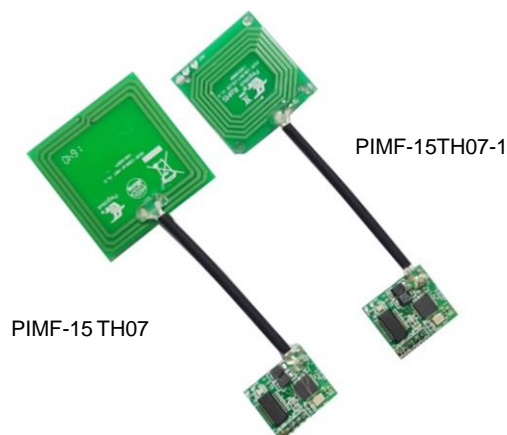


● Introduction

PIMF-15 is Mini Mifare 13.56MHz UID reading module(PCB size only 17x20mm) which supports UART(TTL) output. Only requests DC3.3~5V input.

We provide complete software/Hardware support and shorten schedule of RFID product development, provides 2 sizes of antenna for option. OEM/ODM service is available.



● Features

- Support Mifare ISO 14443A(UID), Mifare, Mifare Ultralight, Mifare DESFire, NFC Tag
- Support UART(TTL) Output.
- Antenna size (37x37mm) or (29x29mm) for option
- Supply firmware modification accords to request of special function
- With LED indicator

● Specification

RFID frequency	13.56MHz		
Applicable cards	Card		Card No.
	Mifare		4 Byte
	Mifare Ultralight		7 Byte
	Mifare DESFire		7 Byte
	NFC Tag		7 Byte
Output format	UART(TTL)		
Power input	DC 3.3~5.0V		
Operating temperature	-10℃~70℃		
Storage temperature	-20℃~85℃		
Reading range	Model No.		PIMF-15
	Card		Antenna(37x37mm)
	Mifare	T:0.8mm	3.3V: Max. 8cm / 5V: Max. 7cm
		Tag	3.3V: Max. 4cm / 5V: Max. 4cm
	Ultralight	T:0.8mm	3.3V: Max. 4cm / 5V: Max. 5cm
	DESFire	T:0.8mm	3.3V: Max. 4cm / 5V: Max. 5cm
	NFC	T:0.8mm	3.3V: Max. 7cm / 5V: Max. 6cm
		Tag	3.3V: Max. 3cm / 5V: Max. 4cm
Standby / Working current	Model No.		PIMF-15
	Power Voltage		Antenna (37x37mm)
	DC 3.3V		41mA±10% / 41mA±10%
	DC 5.0V		59mA±10% / 59mA±10%
Standby / Working current	Model No.		PIMF-15-1
	Power Voltage		Antenna (29x29mm)
	DC 3.3V		40mA±10% / 40mA±10%
	DC 5.0V		59mA±10% / 59mA±10%

● Dimension: Unit: mm[inch]

Model No.	PIMF-15	PIMF-15-1
尺寸		

● Wire configuration

<p>LED: Power and Read Status Indicators Power on: LED always on (Orange) Reading: LED shut off 1 sec.</p>	PIN	Function	
	1	○	DC 3.3~5.0V
	2	—	GND
	3	—	UART(TTL)
	4	—	X
	5	○	Empty GND
			Baud Rate 9,600 Baud Rate 19,200

● Data formats

TTL Output format

STX(02Hex)	Data	CR(0DHex)	LF(0AHex)	ETX(03Hex)
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4 Byte Output

If card no. is D49131E, card no. in reverse is 1E1349AD

STX

CR LF ETX

Hex value : 02H, 41H, 44H, 34H, 39H, 31H, 33H, 31H, 45H, 0DH, 0AH, 03H

7 Byte Output

If card no. is 8060F7A2DD5904, card no. in reverse is 0459DDA2F76080

STX

CR LF ETX

Hex value : 02H, 38H, 30H, 36H, 30H, 46H, 37H, 41H, 32H, 44H, 44H, 35H, 39H, 30H, 34H, 0DH, 0AH, 03H

- **Ordering information**

PIMF-15W	Mini Mifare 13.56MHz UID reading module with antenna(37x37mm), Wiegand 26 &34bits
PIMF-15W-1	Mini Mifare 13.56MHz UID reading module with antenna(29x29mm), Wiegand 26 &34bits
PIMF-15TH07	Mini Mifare 13.56MHz UID reading module with antenna(37x37mm), TTL, Card number: in reverse, Hexadecimal
PIMF-15TH07-1	Mini Mifare 13.56MHz UID reading module with antenna(29x29mm), TTL, Card number: in reverse, Hexadecimal

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Mifare DESFire is a registered trademark of NXP B.V.

Mifare Ultralight is a registered trademark of NXP B.V.