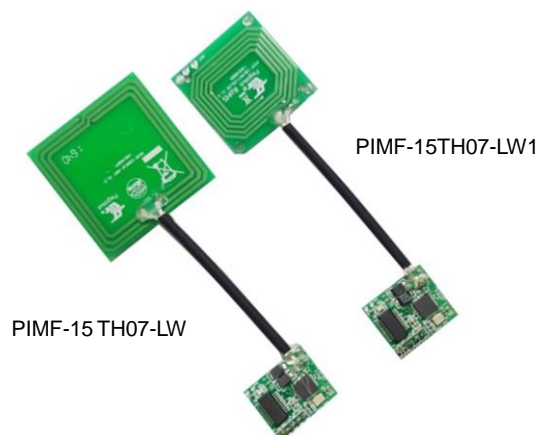


● Introduction

PIMF-15 is Micro Power Mini Mifare 13.56MHz UID reading module(PCB size only 17x20mm) which supports UART(TTL) output. Only requests DC3.2~5.3V 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	4 Byte	
	Mifare DESFire	4 Byte	
	NFC Tag	4 Byte	
Work up time	1.8 sec.(Can be customized)		
Transmission Spec.	9,600 bps		
Output format	UART(TTL)		
Power input	DC 3.2~5.3V		
Operating temperature	-20℃ ~80℃		
Storage temperature	-40℃ ~85℃		
Reading range	Model No.	PIMF-15TH07-LW	PIMF-15TH07-LW
		Antenna(37x37mm)	Antenna(29x29mm)
	Mifare Card	3.2V: Max. 7.0cm / 5.3V: Max. 7.0cm	3.2V: Max.1.5cm / 5.3V: Max. 3.5cm
	Ultralight Card	3.2V: Max. 6.0cm / 5.3V: Max. 5.5cm	3.2V: Max. 3.0cm / 5.3V: Max. 3.0cm
	DESFire Card	3.2V: Max. 4.0cm / 5.3V: Max. 5.0cm	3.2V: Max. 0.01cm / 5.3V: Max. 0.5cm
	NFC Card	3.2V: Max. 7.0cm / 5.3V: Max. 6.0cm	3.2V: Max. 2.5cm / 5.3V: Max. 3.0cm
Standby / Working current	Model No.	PIMF-15TH07-LW	PIMF-15TH07-LW 1
		Antenna (37x37mm)	Antenna (29x29mm)
	DC 3.2V	< 0.5mA / 10~19mA	< 0.5mA / < 45mA
	DC 5.3V	< 0.5mA / 10~19mA	< 0.5mA / < 90mA

● Dimension: Unit: mm

Model No.	PIMF-15TH07-LW	PIMF-15TH07-LW1
Dimensions		

● Wire configuration

<p>LED: Power and Read Status Indicators Power on: LED shut off Reading: LED on (Orange)</p>	PIN	Function	
	1		DC 3.2~5.3V
	2		GND
	3		UART(TTL)
	4	---	X
	5	---	X

● Data formats

TTL Output format

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

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

STX

CR LF

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

- **Ordering information**

PIMF-15W-LW	Mini Mifare 13.56MHz UID reading module with antenna(37x37mm), Wiegand 26 &34bits
PIMF-15W-LW1	Mini Mifare 13.56MHz UID reading module with antenna(29x29mm), Wiegand 26 &34bits
PIMF-15TH07-LW	Mini Mifare 13.56MHz UID reading module with antenna(37x37mm), TTL, Card number: in reverse, Hexadecimal
PIMF-15TH07-LW1	Mini Mifare 13.56MHz UID reading module with antenna(29x29mm), TTL, Card number: in reverse, Hexadecimal

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