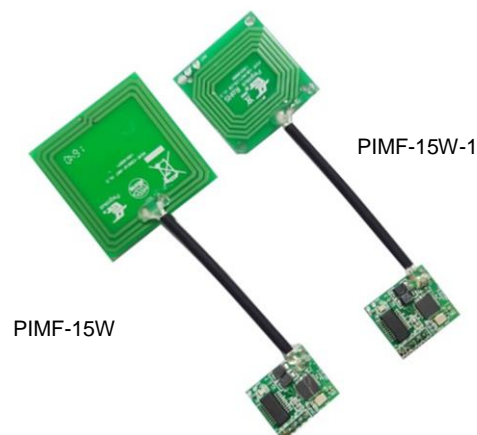


## ● Introduction

PIMF-15 is Mini Mifare 13.56MHz UID reading module(PCB size only 17x20mm) which supports Wiegand 26&34 bits 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 Wiegand 26&34 bits 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	Wiegand 26&34 bits		
Power input	DC 3.3~5.0V		
Operating temperature	-10℃~70℃		
Storage temperature	-20℃~85℃		
Reading range	Model No.		<b>PIMF-15</b>
	Card		Antenna(37x37mm)
	Mifare	T:0.8mm	<b>3.3V:</b> Max. 9cm / <b>5V:</b> Max. 7cm
		Tag	<b>3.3V:</b> Max. 4cm / <b>5V:</b> Max. 4cm
	Ultralight	T:0.8mm	<b>3.3V:</b> Max. 4cm / <b>5V:</b> Max. 5cm
	DESFire	T:0.8mm	<b>3.3V:</b> Max. 4cm / <b>5V:</b> Max. 5cm
	NFC	T:0.8mm	<b>3.3V:</b> Max. 8cm / <b>5V:</b> Max. 8cm
		Tag	<b>3.3V:</b> Max. 3cm / <b>5V:</b> Max. 4cm
Standby / Working current	Model No.		<b>PIMF-15</b>
	Power Voltage		Antenna (37x37mm)
	DC 3.3V		38mA±10% / 38mA±10%
	DC 5.0V		53mA±10% / 53mA±10%
	Model No.		<b>PIMF-15-1</b>
	Power Voltage		Antenna (29x29mm)
	DC 3.3V		36mA±10% / 36mA±10%
	DC 5.0V		55mA±10% / 55mA±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		Data 1
	4		Data 0
	5		Empty GND Wiegand 34bits, Wiegand 26bits,

● Data formats

● Wiegand 26 bits output format

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
P	E	E	E	E	E	E	E	E	E	E	E	E	O	O	O	O	O	O	O	O	O	O	O	O	P
Summed for even parity(E)													Summed for Odd parity(O)												

- P=Starts Even parity bit and stop Odd parity bit.

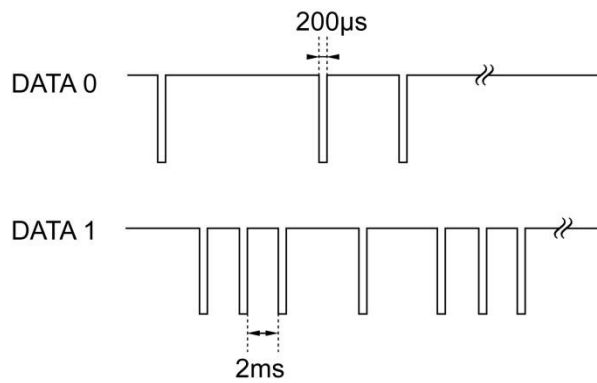
- Even parity "E" is generated by summing from bit2 to bit13; Odd parity "O" is generated by summing from bit14 to bit25.

● Wiegand 34 bits

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
P	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	P
P	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E																	
																	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	P
Summed for even parity(E)																	Summed for Odd parity(O)																

- P=Starts Even parity bit and stop Odd parity bit.

- Even parity "E" is generated by summing from bit2 to bit17; Odd parity "O" is generated by summing from bit18 to bit33.



## ● Ordering information

PIMF-15W	Mini Mifare 13.56MHz UID reading module with antenna(37x37mm), Wiegand 26&34 bits
PIMF-15W-1	Mini Mifare 13.56MHz UID reading module with antenna(29x29mm), Wiegand 26&34 bits
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.