

### ● Introduction

PIMF-HSNW34T-IVA (with ABS enclosure) is Mifare 13.56MHz UID reading module which supports Wiegand 34 bits, UART output. Only requests DC4.5~5.4V input.

We provide complete software/Hardware support and shorten schedule of RFID product development, OEM/ODM service is available.



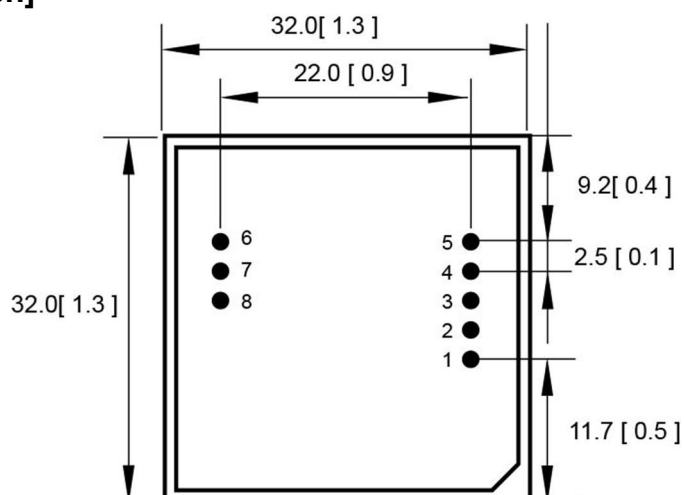
### ● Features

- Support Mifare ISO 14443A(UID)
- Support Wiegand 34 bits, UART Output.
- Supply firmware modification accords to request of special function
- High speed data transfer and high integrity
- Comply with ROHS

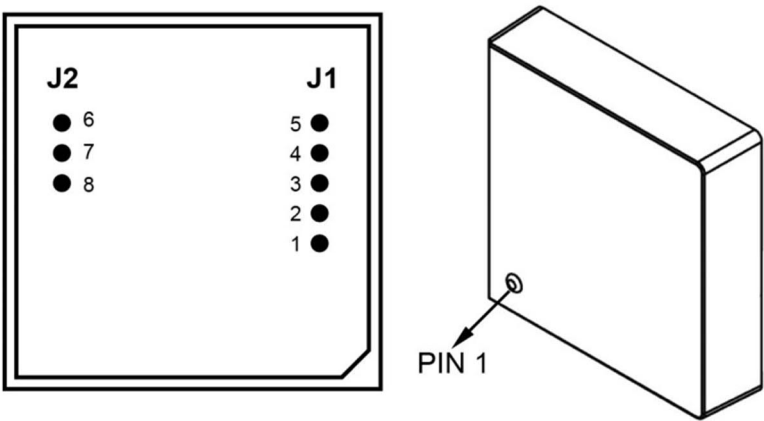
### ● Specification

RFID frequency	13.56MHz
Applicable cards	Mifare S50 / S70, Ultra Light or compatible
Reading range	Card (T:0.8mm)Max.2.5 cm
Output format	Wiegand 34 bits, UART
Power input	5V DC±10%
Transmission spec.	9,600 bps N, 8, 1
Standby / Working current	50mA±10% @5V DC / 24mA±10% @ 5V DC
Material	ABS
Dimensions(L) x(W) x(H) mm/inch	32 x 32 x 8 /1.3 x 1.3 x 0.3
Operating temperature	-10℃~70℃
Storage temperature	-20℃~85℃

### ● Dimension: Unit: mm[inch]



● Wire configuration



J1- UART Output			
J1	Pin	Signal direction	Function
5 ●	5	---	---
4 ●	4	---	---
3 ●	3	→	Tx
2 ●	2	—	GND
1 ●	1	←	+4.5~5.4V

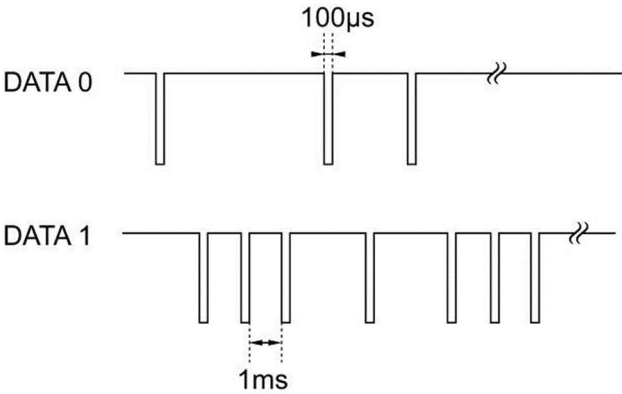
J2-Wiegand Output			
J2	Pin	Signal direction	Function
● 6	6	←	Buzzer
● 7	7	—	Data 0
● 8	8	→	Data 1

● Data formats

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.



## UART output format

STX(02Hex)	CARD ID(8 ASCII)	CR	LF	ETX(03Hex)
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If the card no. is 00318F59, you will get the following ASCII.

STX

ETX

Hex : 02H, 30H, 30H, 33H, 31H, 38H, 46H, 35H, 39H, 0DH, 0AH, 03H

## Transmission Spec.

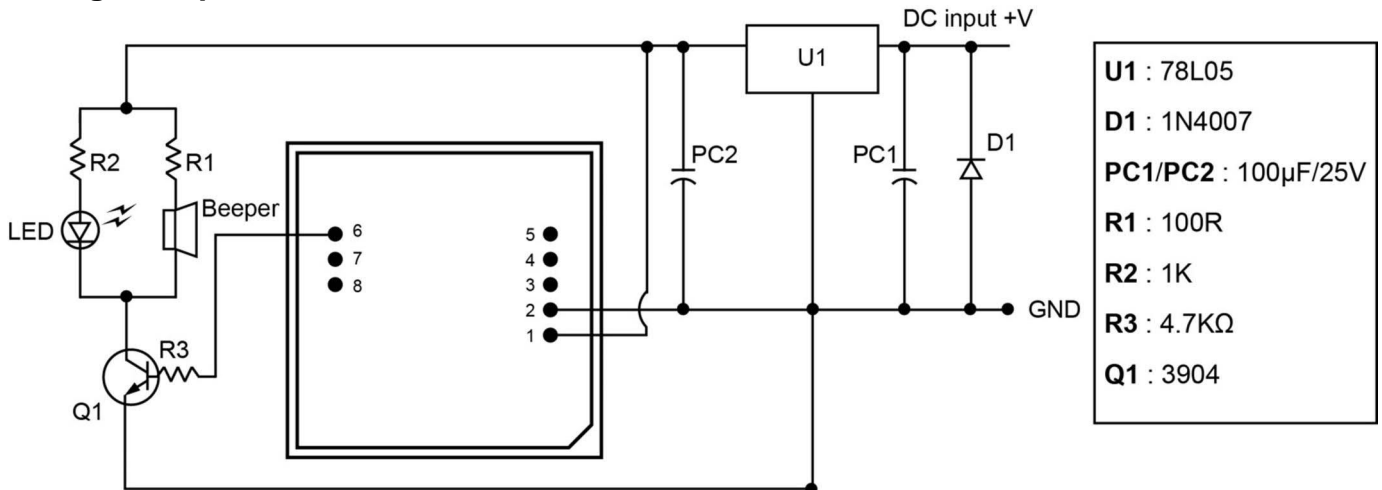
Baud rate : 9,600 bps

Parity bit : none

Data bit : 8

Stop bit : 1

## ● Wiring example



## ● Ordering information

<b>PIMF-18SN/W26T</b>	:58 x 29mm, Wiegand 26 bit, UART
<b>PIMF-18SN/W34T</b>	:58 x 29mm, Wiegand 34 bit, UART
<b>PIMF-HSN/W26T</b>	:Epoxy, 32 x 32 x 8mm, Wiegand 26 bit, UART
<b>PIMF-HSN/W34T</b>	:Epoxy, 32 x 32 x 8mm, Wiegand 34 bit, UART
<b>PIMF-18SN/W26TS</b>	:58 x 29mm, Wiegand 26 bit, UART, card number: in positive
<b>PIMF-18SN/W34TS</b>	:58 x 29mm, Wiegand 34 bit, UART, card number: in positive
<b>PIMF-HSN/W26TS</b>	:Epoxy, 32 x 32 x 8mm, Wiegand 26 bit, UART, card number: in positive
<b>PIMF-HSN/W34TS</b>	:Epoxy, 32 x 32 x 8mm, Wiegand 34 bit, UART, card number: in positive
<b>PIMF-18SN/U1D01</b>	:USB interface, 58 x 29mm, 8 digit, Decimal, 3bytes
<b>PIMF-18SN/U1D02</b>	:USB interface, 58 x 29mm, 10 digit, Decimal, 3bytes
<b>PIMF-18SN/U1D03</b>	:USB interface, 58 x 29mm, 8 digit, Decimal, 4bytes
<b>PIMF-18SN/U1D04</b>	:USB interface, 58 x 29mm, 10 digit, Decimal, 4bytes
<b>PIMF-18SN/U1D05</b>	:USB interface, 58 x 29mm, 8 digit, Decimal, 3bytes, card number: in positive
<b>PIMF-18SN/U1D06</b>	:USB interface, 58 x 29mm, 10 digit, Decimal, 3bytes, card number: in positive
<b>PIMF-18SN/U1D07</b>	:USB interface, 58 x 29mm, 8 digit, Decimal, 4bytes, card number: in positive
<b>PIMF-18SN/U1D08</b>	:USB interface, 58 x 29mm, 10 digit, Decimal, 4bytes, card number: in positive
<b>PIMF-18SN/U1H01</b>	:USB interface, 58 x 29mm, 8 digit, Hexadecimal
<b>PIMF-18SN/U1H02</b>	:USB interface, 58 x 29mm, 10 digit, Hexadecimal
<b>PIMF-18SN/U1H03</b>	:USB interface, 58 x 29mm, 8 digit, Hexadecimal, card number: in positive
<b>PIMF-18SN/U1H04</b>	:USB interface, 58 x 29mm, 10 digit, Hexadecimal, card number: in positive

※ Other customer request specifications are welcomed.

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Specifications subject to change without notice for further modification.

W-04- PIMF-HSNW34T-IVA/E