



- **Introduction**

RFID product development, OEM/ODM service is available.



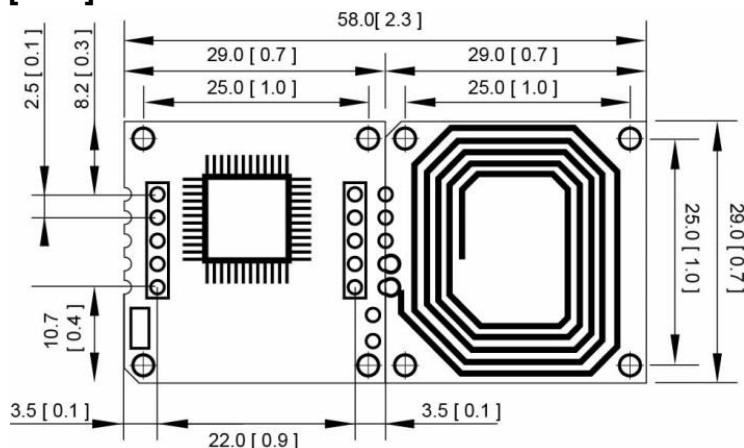
- **Features**

- Support Mifare ISO 14443A(UID).
- Support Wiegand 58bits, UART(TTL) Output.
- Antenna can be replaced upon request.
- Supply firmware modification accords to request of special function.
- High speed data transfer and high integrity.
- Comply with ROHS.
- With fixed holes around the corner.

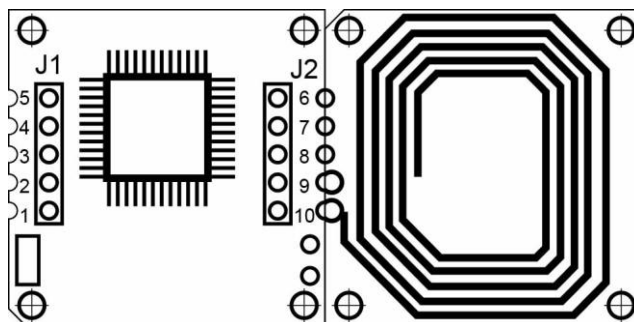
- **Specification**

RFID frequency		13.56MHz
Applicable cards		Mifare S50 / S70, Ultralight or compatible
Reading range	Card (T:0.8mm)	Max.5 cm
Output format		Wiegand 58 bits, UART(TTL)
Power input		5V DC±10%
Transmission spec.		9,600 bps N, 8, 1
Standby / Working current		37mA ±10% @ 5V DC / 42mA±10% @ 5V DC
Material		PCB only
Dimensions(L) x(W) x(H) mm/inch		58 x 29 / 2.3 x 0.7
Operating temperature		-10℃ ~70℃
Storage temperature		-20℃ ~85℃

● **Dimension: Unit: mm[inch]**



- Wire configuration



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

J2-Wiegand Output			
<div> J2 <div> 6 7 8 9 10 </div> </div>	Pin	Signal direction	Function
	6	←	Buzzer
	7	—	Data 0
	8	→	Data 1
	9	→	Antenna
	10	→	Antenna

- Data formats

Wiegand 58 bits

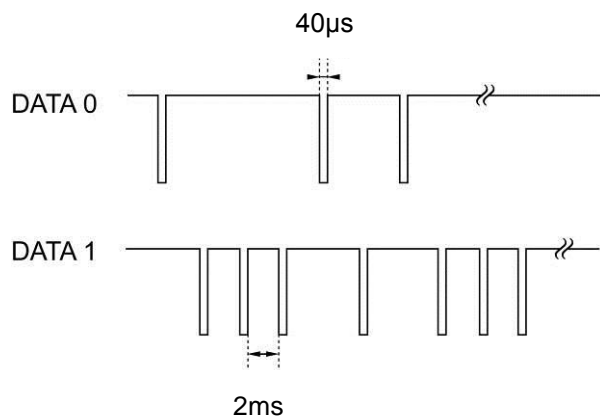
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
P	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
P	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Summed for even parity(E)																												

30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58
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
O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	P
Summed for Odd parity(O)																												

P=Start Even parity bit and stop Odd parity bit.

Even parity "EP" is generated by summing from bit2 to bit29 (Indicated by "E")

Odd parity "OP" is generated by summing from bit30 to bit57 (Indicated by "O")



UART output format

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

STX CR LF ETX

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

Transmission Spec.

Baud rate : 9,600 bps

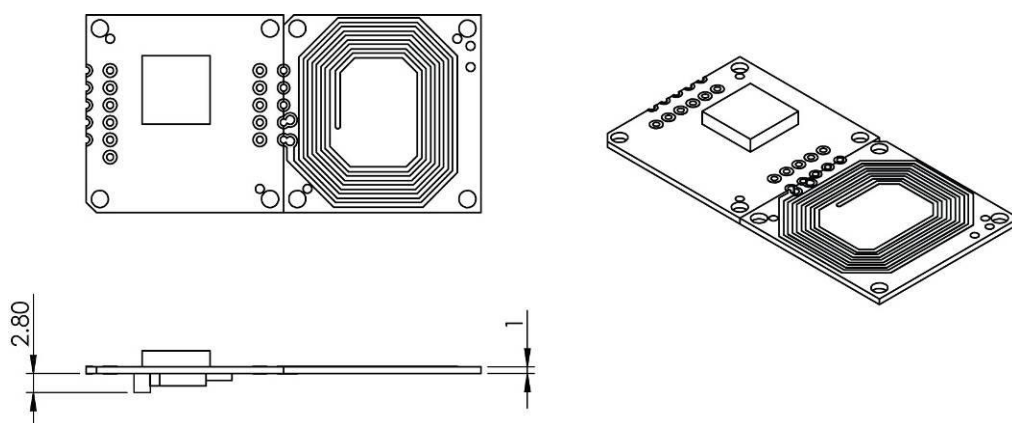
Parity bit : none

Data bit : 8

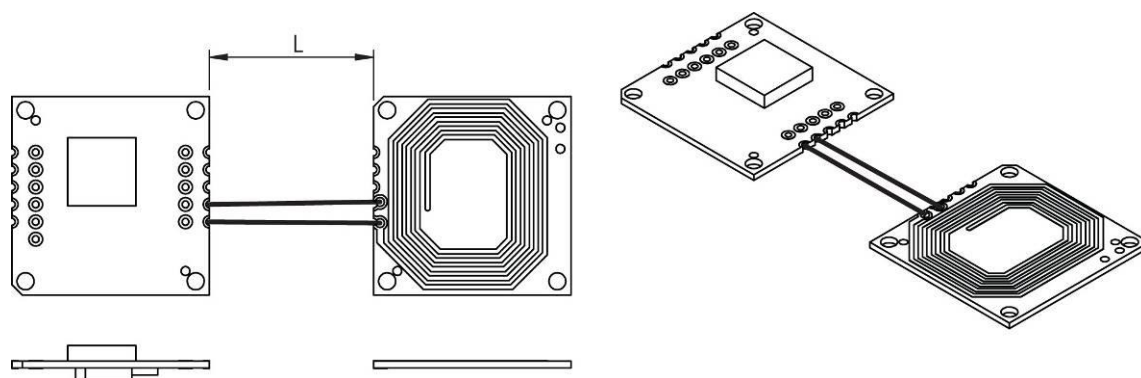
Stop bit : 1

● Application

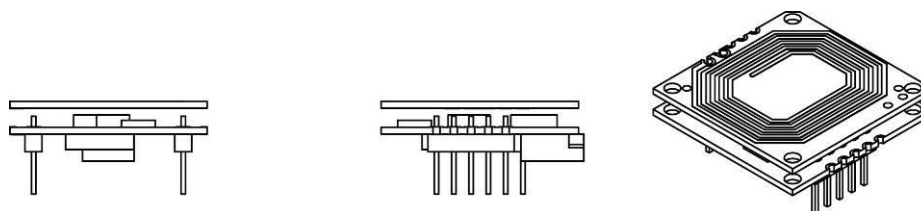
Type A



Type B



Type C



● Ordering information

PIMF-18N01W58T : 58 x 29mm, Wiegand 58 bit, UART(TTL)

PIMF-18N01W58TS : 58 x 29mm, Wiegand 58 bit, UART(TTL), 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-18N01/E