

● Introduction

PIMF-18E is MF 13.56MHz UID reading module. It is power supplied via USB cable. It can provide easy ID filing by USB keyboard emulator without any driver (plug & play) and no request of external power supply. Compact design with mounting holes suitable for various integrations such as portable products.

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

● Features

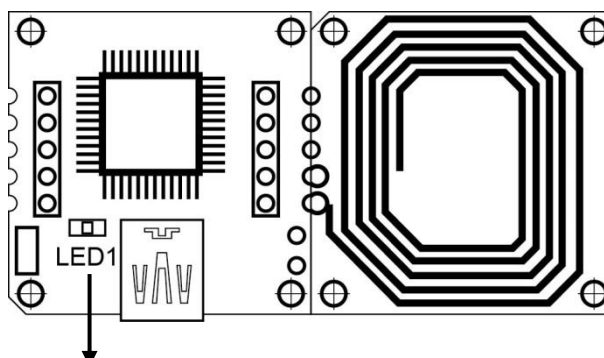
- Support Mifare ISO 14443A(UID)
- Antenna can be replaced upon request
- Supply firmware modification accords to request of special function
- High speed data transfer and high integrity
- Comply with ROHS
- With fixed holes around the corner.



※ **Note:** Please install USB driver before using the dev

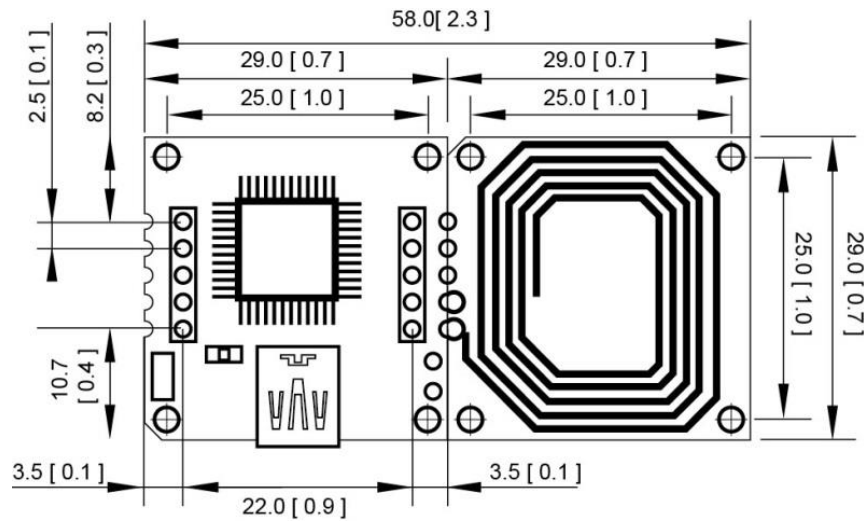
● Specification

RFID frequency		13.56MHz
Applicable cards		Mifare S50 / S70, Mifare Ultralight, Mifare DESFire, NFC Tag
Reading range	Card (T:0.8mm)	Max.4 cm
	Tag	Max.3 cm
Output interface		USB
Power input		By USB
Standby current		60mA±10% @5V DC
Working current		56mA±10% @ 5V DC
Dimensions(L) ×(W) mm/inch		58 x 29 / 2.3 x 0.7
Operating temperature		-10℃~70℃
Storage temperature		-20℃~85℃



LED1:
Standby: Orange
Card(Tag) approach to the module: LED off for 0.5 Sec.

● **Dimension: Unit: mm[inch]**



● **Wire configuration**

Mini USB Connector			
	Pin	Signal direction	Function
	1	←	+5 VDC
	2	→	D-
	3	→	D+
	4	X	X
	5	—	GND

● **Communication protocol**

STX(02Hex)	CARD ID	CR(0DHex)	LF(0AHex)	ETX(03Hex)
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If the card no. is **00027590**, you will get the following Hex value.

STX CR LF ETX
Hex value : 02H, 30H, 30H, 30H, 32H, 37H, 35H, 39H, 30H, 0DH, 0AH, 03H

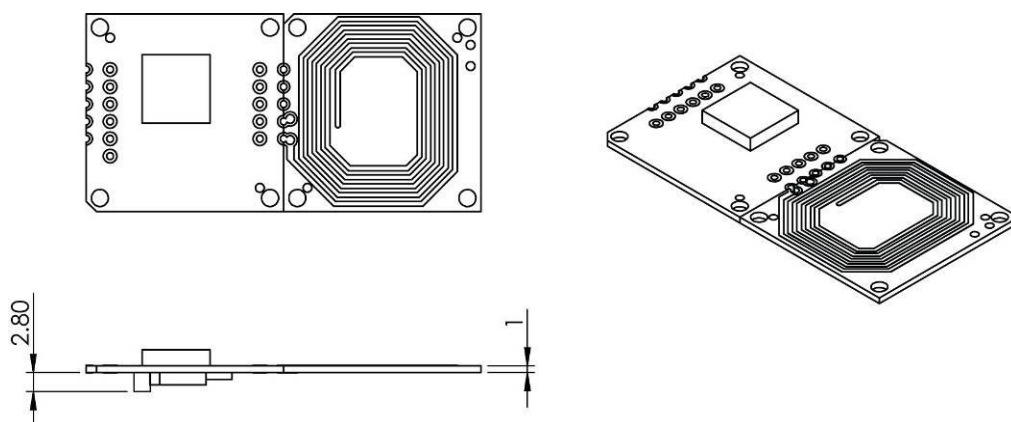
If the card no. is **8035150A436D04**, you will get the following Hex value.

STX CR LF ETX
Hex value : 02H, 38H, 30H, 33H, 35H, 31H, 35H, 30A, 41H, 34H, 33H, 36H, 44H, 30H, 34H, 0DH, 0AH, 03H

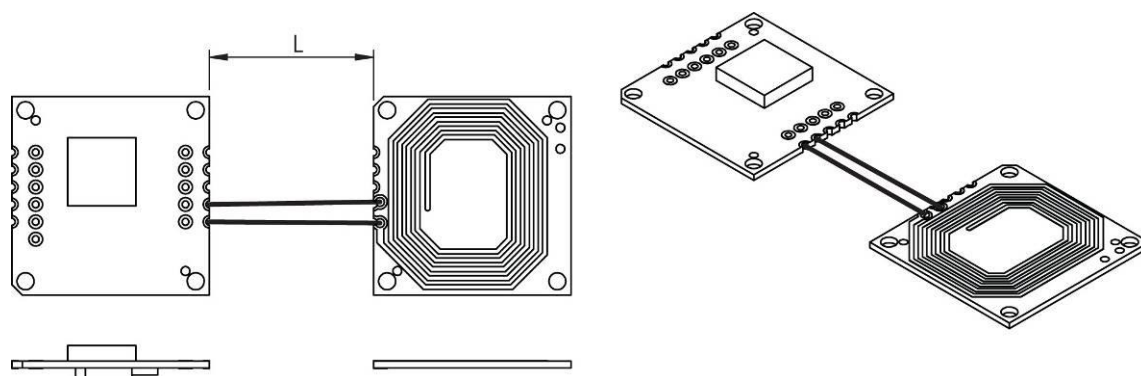
Transmission Spec.

Baud rate : 9,600 bps
 Parity bit : none
 Data bit : 8
 Stop bit : 1

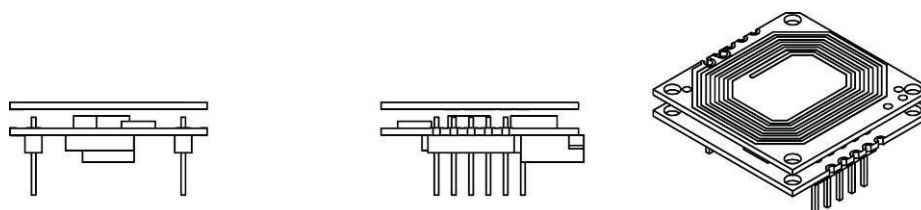
- **Application**
Type A



- Type B**



- Type C**



- **Optional accessories:**
30cm USB Cable (R-12-USB-MINI-300BU)

● Ordering information

PIMF-18EU1D01	: 8 digit, Decimal, 3bytes
PIMF-18EU1D02	: 10 digit, Decimal, 3bytes
PIMF-18EU1D03	: 8 digit, Decimal, 4bytes
PIMF-18EU1D04	: 10 digit, Decimal, 4bytes
PIMF-18EU1D05	: 8 digit, Decimal, 3bytes, card number: in positive
PIMF-18EU1D06	: 10 digit, Decimal, 3bytes, card number: in positive
PIMF-18EU1D07	: 8 digit, Decimal, 4bytes, card number: in positive
PIMF-18EU1D08	: 10 digit, Decimal, 4bytes, card number: in positive
PIMF-18EU1H	: Hexadecimal
PIMF-18EU1HS	: Hexadecimal, card number: in positive

U1 Series	: Plug & Play, USB interface, keyboard emulation(without any PC driver)
U3 Series	: Serial port emulator thru USB interface

※ Other customer request specifications are welcomed

Mifare is a registered trademark of NXP B.V.

Specifications subject to change without notice for further modification.

W-04-PIMF-18EU3H/E