

Dimensions

Unit: (mm / inch)

Model No.	PIEM-A series	PXEM-B series	PIEM-C series	PIEM-E series
Appearance				
Dimensions				
Model No.	PIEM-F series	PIEM-G series	PIEM-H series	PIEM-I series
Appearance				
Dimensions				
Model No.	PIHD-04 series	PXHD-12 series	PIEM-14 / PIHD-14 series	
Appearance				
Dimensions				

Introduction

- 125KHz RFID reading module series are compact size and to shorten and simplify RFID products development. Supports DC input range between 3.3~5.4V (or customized for 12V). Low power consumption and epoxy potted design suitable for integration with either portable or stationary product. The OEM/ODM is welcomed.









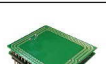


Features

- Supported dual decoding (EM 125KHz ASK & 125KHz FSK).
- Supported Multi-format(ASCII / Wiegand 26 / 34 bits / ABA(8D, 10D, 14D)).
- Selectable reading of Manchester 64 & 128 bits (encrypted) card and outputs ASCII (Optional).
- Applicable cards: EM 4001, 4100, 4102 、TEMIC 5557 or compatible.
- Transmission spec.: 9,600 bps N,8,1(15,200/19,200bps)(Optional) for ASCII data format .
- Supplies buzzer & LED signal output.
- Low cost, high performance and compact size is easy for various products development.
- Comply with ROHS.
- Comply with CE certification.

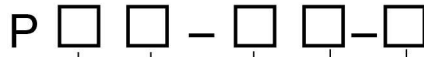
Application field

Access control / Time attendance / POS system / Logistics / Production control / Mobile handheld device

Specification

Appearance	Model No.	Dimensions (LxWxH)mm	Net weight	Reading range	With internal antenna	Supported Tag-ICs	Transmission spec.
	PIEM-A series	40.5 x 24 x 11	17g±5%	Card(T)0.8mm: 6±1cm Tag: 4±1cm Card(T)1.8mm: 8±1cm Specific card: 12±1cm	YES	EM 4001 EM 4100 EM 4102 TEMIC 5557 (ISO1785) 125K ID card or compatible.	9,600 bps, N,8,1 (UART)
	PXEM-B series	26.5 x 16.5 x 7	6g ±5%	Depending on tag size, tag type and antenna size	NO		
	PIEM-C series	40 x 40 x 10	24g±5%	Card(T)0.8mm: 7±1cm Tag: 4±1cm Card(T)1.8mm: 10±1cm Specific card: 16±1cm	YES		
	PIEM-E series	26(Diameter) x 9	9.2g±5%	Card(T)0.8mm: 6±1cm Tag: 4±1cm Card(T)1.8mm: 8±1cm Specific card: 12±1cm	YES		
	PIEM-F series	26 x 25 x 7	7g±5%	Card(T)0.8mm: 6±1cm Tag: 4±1cm Card(T)1.8mm: 8±1cm Specific card: 12±1cm	YES		
	PIEM-G series	21 x 19 x 6	4.3g±5%	Card(T)0.8mm: 5±1cm Tag: 3±1cm Card(T)1.8mm: 7±1cm Specific card: 11±1cm	YES		
	PIEM-H series	32 x 32 x 8	14.2g±5%	Card(T)0.8mm: 6±1cm Tag: 3±1cm Card(T)1.8mm: 9±1cm Specific card: 15±1cm	YES		
	PIEM-I series	23(Diameter)x 6	4.3g±5%	Card(T)0.8mm: 5±1cm Tag: 3±1cm Card(T)1.8mm: 7±1cm Specific card: 11±1cm	YES		
	PIEM-04 series	38 x 38	14g±5%	Card(T)0.8mm: 7±1cm Tag: 4±1cm Card(T)1.8mm: 10±1cm Specific card: 16±1cm	YES		
	PXHD-12 series	43.2 x 33	4.3g±5%	Depending on tag size, tag type and antenna size	NO		
	PIHD-14 series	64 x 37.5	15g±5%	Card(T)1.8mm: 7±1cm	YES		
	PIEM-14 series			Card(T)0.8mm: 3±1cm Card(T)1.8mm: 6±1cm			

Ordering Information







I: With internal antenna X: Without internal antenna	EM: 125KHz ASK HD: 125KHz FSK	Dimensions(LxWxH)mm			W: Wiegand	Other features:
		A: 40.5x24x11 B: 26.5x16.5x7 C: 40x40x10 E: 26(Diameter)x9 F: 26x25x7	G: 21x19x6 H: 32x32x8 I: 23(Diameter)x6	PCB only: 03: 24x23mm 04: 38x38mm 12: 43.2x33mm 14: 64x37.5mm	A : ABA S : ASCII T : TTL R2: RS-232 U1: USB	LW: Micro Power Micro Power

125KHz ASK EM Series

Appearance	Model No.	Antenna		Output format(Interface)					Power	Other features	
		Internal	Require additional	Wiegand 26 bits	ABA	ASCII	TTL	RS-232			USB
	PIEM-AWAS-012A	•		•	•	•				DC 5~18V	
	PIEM-AWAS-012-5V	•		•	•	•				DC 3.3~5.4V	
	PXEM-BWS-01		•	•		•				DC3.3~5.4V	2.2nF capacitor embedded Should be pair with 700uH antenna
	PXEM-BWS-02		•	•		•				DC3.3~5.4V	3.3nF capacitor embedded Should be pair with 455uH antenna
	PIEM-CW	•		•						DC3.3~5.4V	
	PXEM-CW		•	•						DC3.3~5.4V	
	PIEM-CT	•					•			DC3.3~5.4V	
	PIEM-CWS	•		•		•				DC3.3~5.4V	
	PIEM-CWA	•		•	•					DC3.3~5.4V	
	PIEM-CWAS	•		•	•	•				DC3.3~5.4V	
	PIEM-EWS	•		•		•				DC3.3~5.4V	
	PIEM-EWS-12V	•		•		•				DC5~12V	
	PIEM-ES-840	•				•				DC3.3~5.4V	Supported Manchester 64 and 128 bits
	PIEM-FW	•		•						DC3.3~5.4V	
	PIEM-FWS	•		•		•				DC3.3~5.4V	
	PIEM-FWAS	•		•	•	•				DC3.3~5.4V	
	PIEM-FW34AS	•			•	•				DC3.3~5.4V	Supported Wiegand 34 bits
	PIEM-FWAS-LB	•		•	•	•				DC3.3~5.4V	Low Reset, normal at high voltage
	PIEM-FWAS-H	•		•	•	•				DC3.3~5.4V	High Reset, normal at low voltage
	PIEM-FWAS-12V	•		•	•	•				DC5~12V	
	PXEM-FWAS		•	•	•	•				DC3.3~5.4V	
	PXEM-FS-3.3V		•			•				DC3.3V	
	PXEM-FSCS-3.3V		•			•				DC3.3V	Checksum
	PIEH-FWAS-14H22	•			•	•	•			DC5V	Supported dual decoding (EM 125KHzASK & HC 125KHz FSK)
	PIEM-HWS-LW	•		•		•				DC 3.3~10V	Micro Power Standby current: 11~18µA Working current :12~17.2mA Supported Wiegand 34 bits
	PIEM-14R2D01	•						•		DC 5V	Decima, 8 digits, Read card number 3bytes
	PIEM-14R2D02	•						•		DC 5V	Decima, 10 digits, Read card number 3bytes
	PIEM-14R2D03	•						•		DC 5V	Decima, 8 digits, Read card number 4bytes
	PIEM-14R2D04	•						•		DC 5V	Decima, 10 digits, Read card number 4bytes
	PIEM-14R2H01	•						•		DC 5V	Hexadecimal,8 digits
	PIEM-14R2H02	•						•		DC 5V	Hexadecimal,10 digits
	PIEM-14U1TD01	•						•	•	By USB	Decima, 8 digits, Read card number 3bytes
	PIEM-14U1TD02	•						•	•	By USB	Decima, 10 digits, Read card number 3bytes
	PIEM-14U1TD03	•						•	•	By USB	Decima, 8 digits, Read card number 4bytes
	PIEM-14U1TD04	•						•	•	By USB	Decima, 10 digits, Read card number 4bytes
	PIEM-14U1TH01	•						•	•	By USB	Hexadecimal,8 digits
	PIEM-14U1TH02	•						•	•	By USB	Hexadecimal,10 digits

125KHz FSK Series

Appearance	Model No.	Antenna		Output format(Interface)						Power	Other features
		Internal	Require additional	Wiegand 26/34 bits	ABA	ASCII	RS-232	TTL	USB		
	PIHD-CR2	•					•			DC 5V	
	PIHD-CW	•		•							
	PIHD-CT	•						•			
	PIHD-CWA	•		•	•						
	PIHD-CWS	•		•		•					
	PIHD-CWAR2	•		•	•		•				
	PIHD-CWAS	•		•	•	•					
	PIHD-CWAT	•		•	•			•			
	PXHD-CW		•	•							
	PXHD-CWS		•	•		•					
	PXHD-CWAS		•	•	•	•					
	PIHD-04W	•		•							
	PXHD-12W-LW		•	•						DC 4~9V	Micro Power Standby current:10~15 μA Working current:21.3~23.8 mA
	PIHD-14R2D01	•					•			DC 5V	Decima, 8 digits, Read card number 3 / 4bytes
	PIHD-14R2D02	•					•			DC 5V	Decima, 10 digits, Read card number 3 / 4bytes
	PIHD-14R2H01	•					•			DC 5V	Hexadecimal,8 digits
	PIHD-14R2H02	•					•			DC 5V	Hexadecimal,10 digits
	PIHD-14U1D01	•							•	By USB	Decima, 8 digits, Read card number 3 / 4bytes
	PIHD-14U1D02	•							•	By USB	Decima, 10 digits, Read card number 3 / 4bytes
	PIHD-14U1H01	•							•	By USB	Hexadecimal,8 digits
	PIHD-14U1H02	•							•	By USB	Hexadecimal,10 digits

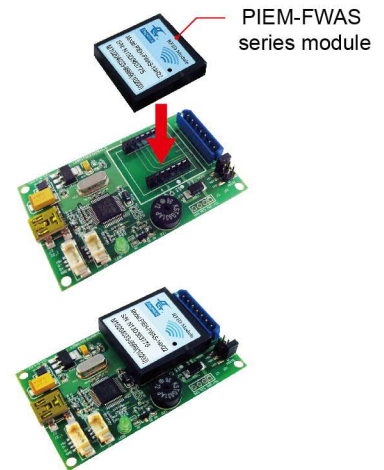
125KHz EM Module Starter Kit

Introduction

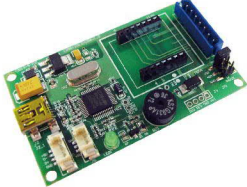
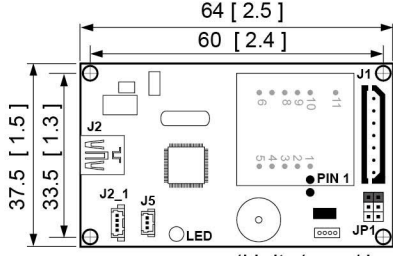
- 125KHz ASK EM starter kit module support multi-cable wiring connection (7 pin, 3 pin, Mini USB cable) convert into multi-interface output for testing. (Wiegand, ABA, RS-232, USB)
- It helps to shorten and simplify RFID products development schedule compared with PIEM-FWAS series module.

Features

- With indicating power & status LED.
- With buzzer for sound warning.
- Supporting multi-cable wiring connection (7 pin, 3 pin, Mini USB cable) convert into multi-interface output for testing.
- No need to install driver. (keyboard emulator).
- Compact size.
- With 4 fixed holes around the corner.



Specification

Appearance	Model No.	Dimensions	Power input	Output format(Interface)
	PXEM-F-SDK	 <p>64 [2.5] 60 [2.4] 37.5 [1.5] 33.5 [1.3]</p> <p>(Unit: (mm / inch))</p>	DC 5V	Wiegand, ABA, RS-232, USB