

QR Code & RFID Card Reader

Applied with EM / H.I.D. / Mifare / DESFire / FeliCa / QR code / Barcode



PQ-510

RFID HF: 13.56 MHz

RFID LF: 125 KHz



QR Code



Barcode



RFID Card

Features

- It can connect off-line and on-line controller.
- Scan the Barcode or QR code to record the access events.
- Built-in buzzer for sound notification.
- Provides tamper switch.
- Ability to read multiple formats.
- With CPU watch-dog function to prevent malfunction.
- Provide OEM/ODM projects development.

Specification

RFID frequency	125KHz / 13.56MHz
Applicable cards	EM 4001, EM 4102 compatible / TEMIC 5557 / H.I.D. / Mifare S50, S70, Ultra Light, NFC Tag
Output format (Interface)	RS-232 / RS-485 / Wiegand 26/34bits
Mounting	Surface Mount
Power input	DC 12V
QR code / Barcode	Support Number / English letter / Symbol, 32 characters in total, 120 characters(Optional)
Symbologies	1D: UPC-A、UPC-E、EAN-13、ISBN10、ISBN13、EAN-8、CODE39、CODE11、CODE93、CODE128 INTERLEAVED25、INDUSTRIAL25、MATRIX25、S25、CODE 32、TRIOPTIC39、GS1_128、CODABAR、MSI、TELEPEN、RSS、GS1_DATABAR、GS1_DATABAR_LIM、GS1_DATABAR_EXP 2D: QR、MICROQR、PDF417、MICROPDF、DATAMATRIX、MAXICODE、AZTEC、CODABLOCK_F



Personal access control



Production control



Suite rental management



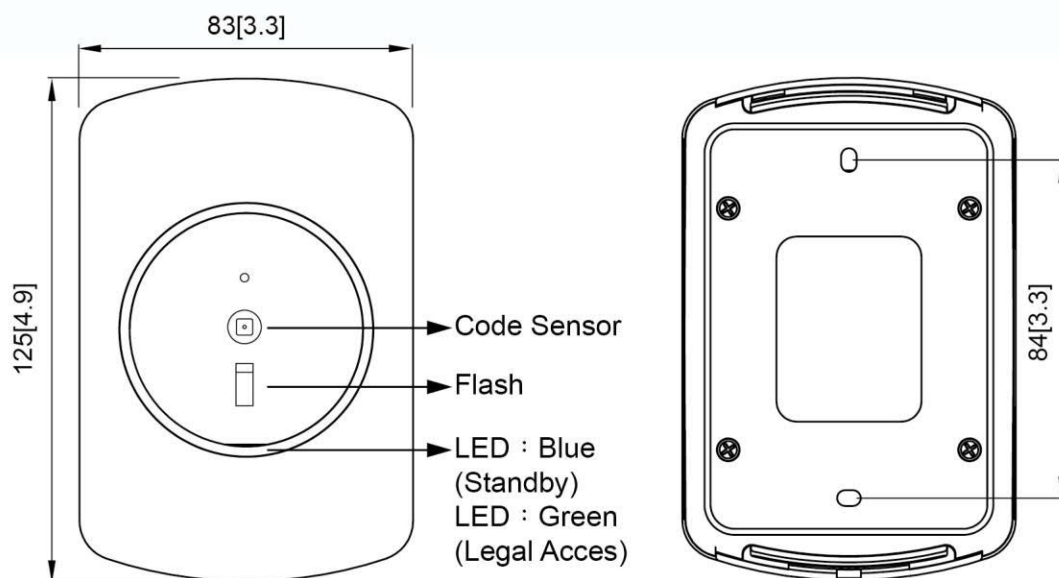
Meeting attendance

System configuration



Dimension

Unit : mm[inch]



Ordering information

- PQ-510HW** : 125KHz H.I.D. & QR Code(Barcode) proximity reader, Wiegand 26&34bits
- PQ-510H2W** : 125KHz H.I.D. & QR Code(Barcode) proximity reader, H.I.D. (Wiegand 26~37bits, Depending on card), QR code(Wiegand 26&34bits)
- PQ-510NW** : 125KHz EM & QR Code(Barcode) proximity reader, Wiegand 26&34bits
- PQ-510M0W34** : 13.56MHz Mifare & QR Code(Barcode) proximity reader, Wiegand 34bits, Read card number: in reverse
- PQ-510M0W34S** : 13.56MHz Mifare & QR Code(Barcode) proximity reader, Wiegand 34bits, Read card number: in positive
- PQ-510FM3R5** : FeliCa & ISO15693 & QR Code(Barcode) proximity reader, RS-485
- PQ-510R5** : QR Code(Barcode) reader, RS-485
- PQ-510W** : QR Code(Barcode) reader, Wiegand 26 & 34bits

Applicable cards	Output Interface	Numeral system	Code	Read card number						Output card number format			CheckSum	
				In reverse Note 1	In positive Note 1	2bytes	3bytes	4bytes	5bytes	8 digits	10 digits	14 digits		
N: 125KHz ASK EM	R2:RS-232 R5:RS-485 U1:USB	D:Decimal	01				●			●				
			02				●				●			
			03					●		●				
			04					●			●			
			05						●			●		
		H:Hexadecimal	01						●					
	02								●					
	A:ABA	D:Decimal	01							●				
			02								●			
			03									●		
W:Wiegand	26: 26bit, 34: 34bit <42/44/64 bits(Optional)>													
M0/M1/M8: 13.56MHz Mifare (Ultralight, NFC Tag,) MD: 13.56MHz Mifare DESFire (Ultralight, NFC Tag) F: 13.56MHz Mifare & FeliCa (Ultralight, NFC Tag)	R2:RS-232 R5:RS-485 U1:USB	D:Decimal	01	●			●			●				
			02	●			●				●	●		
			03	●				●		●		●		
			04	●				●			●			
			05		●		●			●		●		
			06		●		●				●			
			07		●			●		●				
			08		●			●			●			
			09	●		●						●		
			10		●	●						●		
		H:Hexadecimal	01	●						●				
			02	●							●			
			03		●					●		●		
			04		●						●			
			05	●						●			●	
			06	●							●			●
			07	●								●		●
			08		●								●	
	A:ABA	D:Decimal	01	●							●			
			02		●						●			
			03	●								●		
			04		●							●		
			01	●							●			
			02		●						●			
W:Wiegand	26: 26bit, 34: 34bit, 58:58bit <42/44/64 bits(Optional)>													
H: 125KHz FSK H.I.D.	R2:RS-232 R5:RS-485 U1:USB	D:Decimal	01				●	●		●				
			02				●	●			●			
		H:Hexadecimal	01							●				
			02								●			
	A:ABA	D:Decimal	01							●				
			02								●			
		H:Hexadecimal	01							●				
			02								●			
	W:Wiegand	26&34bit <32、35、36、37、40、42、48bit (optional)>												

Note 1

Ex.: Card UID(Card No. in positive, Hexadecimal) : 7C 90 E0 65

	Hexadecimal		Decimal (10 digits)	Decimal (10 digits)	Decimal (8 digits)
Card No. in positive	7C 90 E0 65	→	2089869413	31888 , 57445	14457445
			7C 90 E0 65 ↓ 2089869413	7C90 E065 ↓ 31888 57445	90 E065 ↓ 144 57445
			Code: D08	Code: D10	Code: D05
Card No. in reverse	65 E0 90 7C	→	1709215868	26080,36988	22436988
			65 E0 90 7C ↓ 1709215868	65E0 907C ↓ 26080 36988	E0 907C ↓ 224 36988
			Code: D04	Code: D09	Code: D01

※ **U1** : Plug & Play, USB, keyboard emulation(without any PC driver)※ **U3** : Serial port emulator thru USB interface※ **M0** : Reading Mifare UID (Serial No.)**M1** : Mifare sector number assigned by Pegasus for specific customer.
(with proprietary key)**M8** : Reading card number from Mifare block 8 by factory defaulted key.※ **M2** : For Mifare read/write application (customized firmware),**U2**: USB, Reader/Writer (with software)

※ Standard RS-232 output format: <STX>000043090892<CR><LF><ETX>

※ Standard RS-485 output format: <STX>000043090892<CR><LF><ETX>

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MIFARE DESFire is a registered trademark of NXP B.V.
FeliCa is a trademark of Sony Corporation.**PONGEE INDUSTRIES CO., LTD.**

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We reserve the right to change the specification without prior notice or obligation!