



H.I.D. read module

PXHD-CWS / PIHD-CWS series

Ver.11.1

● INTRODUCTION

The H.I.D. read module contains the 125KHz/FSK decoding circuits to read the H.I.D. compatible contactless cards or tags. We support various modules contains antenna or without antenna with Wiegand/ ASCII interfaces easy to apply various utilization.

● SPECIFICATIONS

Model No.	PIHD-CWS	PXHD-CWS
With internal antenna	●	---
Output Interface selectable	Wiegand/ASCII	Wiegand/ASCII
Access Distance	4~5 cm	Depending on tag size, tag type and antenna size
Card Type	H.I.D.	
Frequency / Modulation	125 KHz/FSK	
Transmission rate	By respective communication protocol	
Enclosure material	ABS	
Power requirement	5V,25mA	
Operating Temperature	-10℃ ~55℃	
Humidity	10% ~ 90% RH, Non condensation	
Dimension (L)x(W)x(H)mm	40 x 40 x 10	
Weight	22.4g±5%	18.6g±5%

● PIN CONFIGURATION

PIHD-CWS			PXHD-CWS		
PIN No.	Wiegand Function	ASCII Function	PIN No.	Wiegand Function	ASCII Function
1	Ground	Ground	1	Ground	Ground
2	+5VDC	+5VDC	2	+5VDC	+5VDC
3	Data 1	Data 1	3	Data 1	Data 1
4	Data 0	Data 0	4	Data 0	Data 0
5	Buzzer	Buzzer	5	Buzzer	Buzzer
6	--	TTL(To IC UART)	6	--	TTL(To IC UART)
7	Internal antenna	Internal antenna	7	External antenna	External antenna
8	Internal antenna	Internal antenna	8	External antenna	External antenna
9	--	--	9	--	--
10	---	---	10	---	---
11	---	---	11	---	---

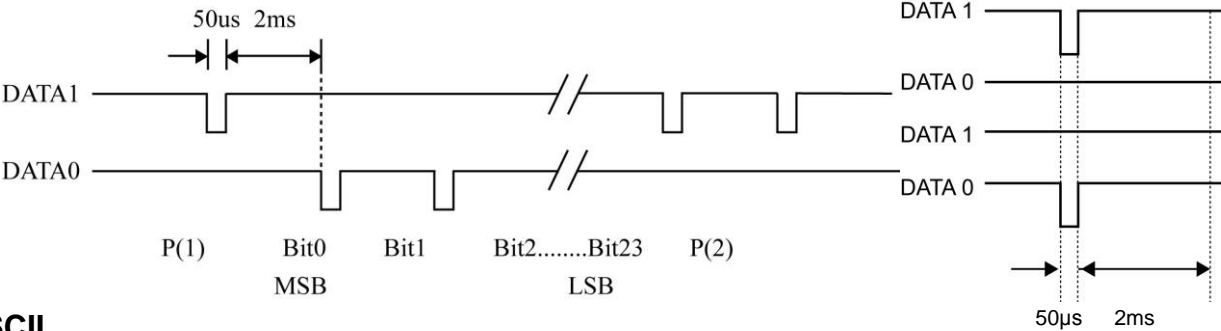
● Wiegand 26 bit(34, 35, 36, 37 bit)

Data output format

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
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	P
P	E	E	E	E	E	E	E	E	E	E	E	E													
													O	O	O	O	O	O	O	O	O	O	O	O	P
Even parity (E)													Odd parity (O)												

Wiegand Output

- (a) The output data is the last three bytes of card number (62E3086CED) 08H 6CH EDH
- (b) Bit=1 D0=1 D1=0 Bit =0 D0=0 D1=1
- (c) Output waveform



ASCII

Data output format

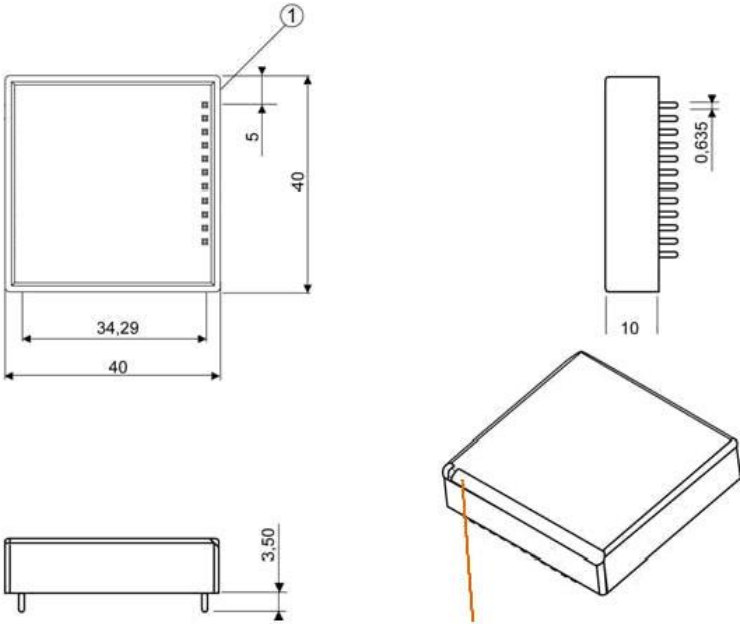
02	10ASCII Data characters	03
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The checksum is the result of the “exclusive or” of the 5 Binary data bytes the 10 ASCII data characters.

ASCII(TTL) Output

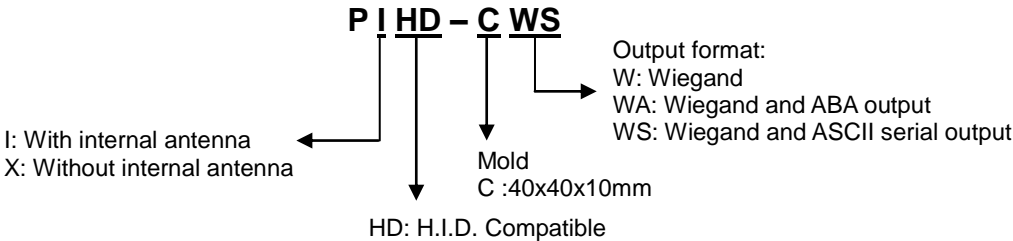
- (a) 9600 bps, N, 8, 1
- (b) Example: Card number 62E3086CED, output format as following :
10ASCII DATA, 36H,32H 45H,33H 30H,38H 36H,43H 45H,44H
(62H E3H 08H 6CH EDH)
- (c) Each Byte output waveform

OUTLOOKING



PIN1 starts in the gap.

HOW TO ORDER



Specifications are subject to change without any notice for further modification.