FissaiD EH301 125KHz Proximity Card reader Operation Manual

EH301 is an external input device that can read EM4100 and HID 125K proximity cards ID and output it to computer or Android/iOS device via USB interface according to the specified format.

- 1 Feature:
- a) Support Card list:

HID 125KHz Proximity Card: ProxCardII(1326), ISOProxII(1386) , DuoProxII(1336), ProxKevIII(1346), ProxKev III (1346), MicroProx Tag (1391)

AWID Low frequency Card: 26-50bits format card. Prox Wafer Disc. Clam Shell Card. Key Tag Casi /GE ProxLite 125KHz proximity (not all format) ; EM4100 or EM compatible

- b) Output data at cursor location, HID USB interface, Driver-free, Supports Android & iOS device.
- c) 44 output formats for both EM & HID, raw wiegand data for HID 125K proximity cards only
- d) Turn on/off buzzer sound, configurable as QWERTY (USA) / AZERTY (Europe) keyboard layout e) Default setting: 10 digit format. With Enter, buzzer sound, QWERTY keyboard, Disable HID Raw

Works with PC: Connect reader to USB port, Green LED light, then Green LED off and reader beeps & blue led light; Run text editable program (Word, Notepad, etc.). Read card, the card number is shown on window at the cursor location.

Works with Mac: same as work on PC, (Mac needs type C /Lighting to USB adapter) Works with android device: an OTG adapter is required

3. Configuration of the reader

EH301 allows user to select output format, (include "with or without Enter" "reverse data"). Turn-ON/OFF buzzer, enable/disable HID raw data, USA/Europe keyboard layout

Config process is done through a 3-level menu system; Reader send option text to screen, user use two different read config card methods to tell reader to select or skip this option. if choice "skip", reader will go to the next option at the same level, if choice "yes", reader will save it then jump to a new option group. These 2 read config card methods are:

- ★Short read card: read config card, reader sounds 1 beep (Bi), remove the card immediately ★Long read card: read config card, reader sounds 1 beep (Bi), don't remove the card, until
- reader sounds other 2 beeps (Bi-Bi), then remove card
- -3.1 Select reader output format 1 to 11
- a) Run text editable program (suggest Excel); Plug in reader to PC till reader beeps (BLUE LED on)
- b) Read the config card, reader enters config mode (Green LED on) and start to send instruction menu on screen, then the first format menu "1 8H-10D" is shown, waiting for user choice
- c) "Long read card" will let reader save this format, and jump to next group menu
- if want not this format, use "short read card", then next format will appear on screen d) if skip all format from 1 to 11, reader will keep previous output format setting
- -3.2 Set reader parameters After format 1-11. 5 parameters can be selected, menu as below:

	5.2 Set reader parameters with format 1 11, 5 parameters can be selected, mena as below.					
ſ	12	with enter	?	Short read card= with enter	Long read card=without enter	
ſ	13	buzzer sound	?	Short read card=buzzer sound	Long read card=disable buzzer	
ſ	14	enable hid raw	?	Short read card=disable hid raw	Long read card=enable hid raw	
ſ	15	reverse data	?	Short read card=normal data	Long read card=reverse data	
ſ	16	kevboard lavout	?	Short read card=USA keyboard	Long read card=Europe keyboard	

with enter—Send "Enter" after card number: Without Enter—Only send card number Normal: card number in normal sequence; Reverse data: card number in reverse sequence; Buzzer sound: reader sound "Bi" after read card: Disable buzzer: reader is mute after read card Disable HID raw: EM/HID/AWID card data are sent as format 1-11 which is selected before: Enable HID raw: EM card follow format setting 1-11, but HID/AWID card data is sent as raw wiegand data stream(See detail for hid raw data explanation in next page)

- -3.3 Quit Config mode: (there are two ways to guit config mode)
- power off reader to guit at any time. This will not affect already saved setting of each step - guit from operation menu as below: (short read card can start config process again)

Repeat or quit config short read card = repeat long read card = quit	
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- a) After power on, if other card is read before reading the config card, reader will enter normal work mode. In normal work mode, blue LED is on. Config card will be read as normal card
- b) HID raw data format is for user who has better knowledge on RFID card and wiegand protocol. If it is enabled. Reader send 6 or 8 Byte HEX data when HID card is read according to below rule: The First 1 byte is card data bit length. others are card number data.

Example, reader sends "1A002468AC", means: Card is wiegand 26 bit data: 1A (HEX) = 26 (DEC).

002468AC (HEX) = 0000 00 00 00 0100 0110 1000 1010 1100 (BIN)

Take 26 bits data from LSB to MSB(see above), according to Wiegand26 protocol, the finial data is 0 0001 0010 0011 0100 0101 0110 0", in Hex It is 123456, group as FC and ID, it is FC= 12 (HFX) or 18 (DFC) ID=3456 (HEX) or 13398 (DEC)

c) Normal format 1-11 are listed as table helow.

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Number/ Mark	Description	Data example			
1 8h-10d	10 digits decimal	0281845676			
2 2h-3d 4h-5d	3 digits FC,5 digits ID	20440876 (FC=204 ID=40876) /WG26 format			
3 4h-5d	5 digits decimal	40876 (5 digit number is printed on card)			
4 5h-7d	7 digits decimal	827308 (7 digit number is printed on card)			
5 6h-8d	8 digits decimal	13410220			
6 7h-9d	9 digits decimal	013410220(card with 9 digit number printing)			
7 4h-5d 4h-5d	5 digits FC,5 digits ID	0430040876 (FC=04300, ID=40876)			
8 8h	4 byte Hex	10CC9FAC			
9 6h	3 byte Hex	CC9FAC			
10 10h	5 byte Hex	A710CC9FAC			
11 10h-13d	13 digits decimal	0717541384108			

4. Advanced config (add prefix/suffix in output data, or select client format for HID card) If reader output data format "1-11" does not match with HID card number printing, user may try HID card client definition format, EH301 has 22 client format options for choice. 4.1 Enter Advanced Config

4.1.1 Run text editable PC program (Excel, Note etc. / Suggest Excel): Plug in reader to PC:

4.1.2 Read config card and don't move config card when reader sound the first "Bi": till reader sound 2nd "Bi", remove the config card to start advanced config process.

4.2 Choice client format. The first menu display on window is:

Set client format? Short read card=not long read card=yes yes Long read card The first format option is appeared below:

Client format 49 "short read...= yes" or read your hid card to verify output 4291461069 yes Now, user may read HID card, the number is shown at here, if output is same as

the card printing, long read config card to save format; if not, short read card to next option. Once format is set, user may power-off reader to quit config or go to set prefix and suffix option. 4.3 Set prefix and suffix

Prefix/Suffix can be any symbol/letter/number on keyboard. They are divided in 6 groups. User need to choice a group first, then choice one character from this group. Groups list as:

1@#\$%^&*() +{}||:"~<>? -=[]\\;'`,./ ABC.... XYZ abc... xvz 1234567890

Prefix and suffix can be enabled together or only one of them

5. Other HID products on line:

P1

HID Card programmer ASIN:B07TMNZPXK : HID Card/Fob ASIN:B07QXLH7L3 / B07QXLHKDP

Download operation video & documents & question answer at www.fissaid.cn/eh301

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