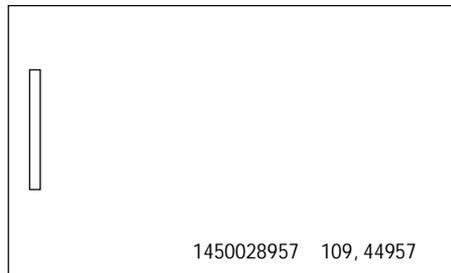


## EasyProx 125KHz Proximity Card reader

### Output Format Listing:

With ENTER	Without ENTER	Reverse data and with ENTER	Reverse data and without ENTER
1 8H-10D-E	10 8H-10D	19 8H-10D-R-E	28 8H-10D-R
2 2H-3D-4H-5D-E	11 2H-3D-4H-5D	20 2H-3D-4H-5D-R-E	29 2H-3D-4H-5D-R
3 8H-E	12 8H	21 8H-R-E	30 8H-R
4 6H-E	13 6H	22 6H-R-E	31 6H-R
5 6H-10D-E	14 6H-10D	23 6H-10D-R-E	32 6H-10D-R
6 6H-8D-E	15 6H-8D	24 6H-8D-R-E	33 6H-8D-R
7 4H-5D-4H-5D-E	16 4H-5D-4H-5D	25 4H-5D-4H-5D-R-E	34 4H-5D-4H-5D-R
8 10H-E	17 10H	26 10H-R-E	35 10H-R
9 10H-13D-E	18 10H-13D	27 10H-13D-R-E	36 10H-13D-R

### Output Format Explanation:



Refer to above picture, most EM4100 card are with this kind data printing. There are two groups data and in decimal format. Converts the first group 1450028957 to Hex is 566DAF9D, it is called 8H (8 digitals Hex data) in format list, and 1450028957 is called 10D (10 digitals decimal data). Converter the 2<sup>nd</sup> group 109, 44957 to Hex is DA, AF9D; That's 109=DA; 44957=AF9D, this format is called 2H-3D-4H-5D.

Make other format example like: 8H-10D-R. This format means to reverse 8H first then convert it to 10 digitals Decimal. In the sample data the 8H is 566DAF9D, reverse 8H data, we got D9AF6D56, then convert it to 10D is: 3652152662. Final output at 8H-10D-R is 365212662.

Remark: The format suffix with -E means after data output, a ENTER is sent;  
without suffix -E means only data is sent.

### Quick Start and trouble shooting:

To verify reader function quickly, client may plug reader into pc, and run Excel, and put the cursor on Excel window, then read sample card which is in the shipment package. If reader beeps and data is shown on window, means reader work properly.

Q: connect reader to PC, no beeps, no BLUE LED, do not reading sample card, nothing happen?

A: try on other USB port, or re-start your PC. (Host system hung up will cause this issue)

Q: when power on, reader beeps and blue LED on, read sample card but do not read my card?

A: your card is not EM4100 format, or it is EM4100 card but it was damaged already

Q: reader reads card but reading distance is too short?

A: if is reader on a metal surface (example: laptop is metal case, and reader was on laptop surface)

Q: reader beeps one time when power on, and do not read any card include sample card?

A: reader was in USB type. Re-set it into PS2 type by Plug IN/OFF or use your program to read card

## Operation Menu

Pls. read this menu carefully before installation and use of this unit

### 1. Product Profile

EasyProx is designed as an external input device to read EM4100 or compatible RFID card serial number and send the number data to host machine (PC/ Mac/Android device) via USB interface according to the specified format, total 36 formats can be selected by user.

It is widely used in many RFID application systems such as Access Control, Time Attendance, membership management, logistics, industrial process control etc.

### 2. Feature:

- a) Read EM4100 or compatible RFID card number
- b) Total 36 formats can be set with a configuration card
- c) Driver-free, supports Windows, Linux, iOS, Android
- d) Buzzer and Blue-color LED indication
- e) configurable to suit for QUERTY , AZERTY language
- f) Configurable for sending data to un-focused window
- g) in default, EasyProx is 10 digital format, send data to focused window, QWERTY keyboard.

#### A) By plug in and plug off (default)

- a.1) Run an editable software, like notepad
- a.2) Plug IN Reader to host → Plug OFF reader → Plug IN → Plug OFF → Plug IN → Plug OFF → Plug IN reader (each Plug IN /OFF should be done within 2 seconds, and total 4 times), then blue led will flash 3 times and reader in automatic setting mode and
- a.3) new format is appeared on window automatically at each second, when the demand format is appeared , plug off the reader, setting is stored and reader will work with new format when next power on.
- a.4) Set to AZERTY , when format 38 appeared, plug off the reader( or format 37 for QWERTY)
- a.5) Set to USB device, when format 40 is appeared, plug off the reader(or format 39 for PS2 type)

Remark: Set QWERTY/AZERTY or PS2/USB type will not affect output format, USB device need own program

#### B) By a setting card (additional config card is required)

Setting card can set reader work type quickly. There are 2 types cards works with EasyProx reader.

- b.1) Config card Type1: switch reader between QWERTY and AZERTY
  - b.2) Config card type2: set reader to USB device.
- Order the config card in our AMAZON ship if need.

### 3. How to use

Works as external input device (PS2 type):

Works with PC: connect reader to PC USB port; run one editable software such as Word , Excel, Notepad, or existing user software ; then read a card.

The number is shown on window at the cursor location.

Works with Mac: same as work on PC

Works with android device: an OTG adapter is required between the android device and EasyProx reader.

Works as USB device (send data to un-focused window), your own program is required.

### 4. Change the output format

Each EM4100 card is with 40bits identification numbers, and the number grouped as 10 digitals Hex data that called as 10H. In different application, specified output format of those 10H data is required, for example in Access Control system, wiegand26 is used, the wiegand26 format is 2H\_3D\_4H\_5D in EasyProx output system. That's mean, convert 2 digitals Hex data to 3 digitals decimal data, and convert other 4digitals Hex to 5 digitals decimal data.

The advantage of EasyProx reader is easy to change output, and total 36 formats can be set in 2 different way which is listed below:

### 5. Q&A

Q: Does it copy ID card?

A: Not, It reads only the serial number of the EM4100 card

Q: Any software / SDK

A: It is Human Interface Device, no any driver is required

Q: How can I use it in my program software

A: EasyProx functions as an external input device like USB keyboard, the data will appear in the focused window.

Q: I want to receive data in un-focused window in program?

A: set reader to USB model, you may receive data on your program. Email us to ask source code VB6 for reference.

Q: How to change QUERTY and AZERTY quickly

A: show the configuration card (Separated purchase) type 1 to reader to switch format between QWERTY and AZERTY.

### 6. LifeTime Warranty:

We provide high-performance product and satisfied service for every client. we provide replacement or re-found for default in 1 year.

7. Service Email: sz\_jat@163.com / www.jatsecurity.com