EasyMF 13.56M smart RFID Card reader

Operation Menu

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

1. Product Profile

EasyMF is designed as an external input device to read Mifare 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 Miafre S50,S70, UL, Desfire 4 BYTE card number
b) Total 28 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) Configurabel for sending data to un-focused window
g) in default, EasyMF is 10 digital format, send data to focused window, QWERTY keyboard.

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 Mifare card is with 32 bits 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 EasyMF 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 EasyMF reader is easy to change output, and total 28 formats can be set in 2 different way which is listed below:

A) By plug in and plug off (default)

a.1) Run an editable software, like notepad

a.2) Plug IN Reader to host **à** Plug OFF reader **à** Plug IN **à** Plug OFF **à** Plug IN **à** Plug OFF **à** Plug IN reader (each Plug IN /OFF should be done within 2 seconds, and total 4 times), then Green led will on 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 F appeared, plug off the reader(or format E for QWERTY)

a.5) Set to USB device, when format USB is appeared, plug off the reader(or format PS2 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 EasyMF 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.

5. Q&A

Q: Does it copy MF card?

A: Not, It reads only the serial number of the Mifare 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: EasymF 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

EasyMF 13.56M SAMRT RFID Card reader

Output Format Listing:

With Enter	Without Enter	Reverse data and with ENTER	Reverse data and without ENTER
01 8H-10D-E	08 8H-10D	15 8H-10D-R-E	22 8H-10D-R
02 6H-2H3D-4H5D-E	09 6H-2H3D-4H5D	16 6H-2H3D-4H5D-R-E	23 6H-2H3D-4H5D-R
03 8H-E	10 8H	17 8H-R-E	24 8H-R
04 6H-E	11 6H	18 6H-R-E	25 6H-R
05 6H-8D-E	12 6H-8D	19 6H-8D-R-E	26 6H-8D-R
06 6H-10D-E	13 6H-10D	20 6H-10D-R-E	27 6H-10D-R
07 8H-4H5D-4H5D-E	14 8H-4H5D-4H5D	21 8H-4H5D-4H5D-R-E	28 8H-4H5D-4H5D-R
29 E	30 F	31 USB	32 PS2

Remark: -E means with enter after card number, -R means reversed card number

Format 29 E is QWERTY ; Format 30 F is AZERTY

Format PS2: data received in focused window, like excel or word

Format USB : data send via HID USB interface, can receive data in un-focused window, in this mode, need own program to receive data, email to sz_jat@163.com for demo/ source code reference.

Output Format Explanation:

Refer to data sheet, most Mifare S50/S70 cards are with 4 byte serial number and Ultralight/Desfire are with 7 byte CSN. EasyMF reads the 4 byte CSN for all of them. Total 4 byte data in Hex is called 8H (8 digitals Hex data) in format list, and it can be transfer to 10 digital decimal data, It is called 10D (10 digitals decimal data). So, EasyMF reader will send card number in different format according to the setting.

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. Finial 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 Mifare card , or it is Mfiare 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