

Adaptable 4 and 7 bytes UID for RFID/NFC chip



Scan the UID and result same with NFC phone

No Software Required!

Just Plug and Play!

Can detect UID cloned card

Applications:

- 1) Employee identification**
- 2) Time and attendance**
- 3) Form filter to existing software applications**
- 4) Library, Hotel, meeting attendance, visitor attendance**
- 5) Secure printing**
- 6) Point of sale**
- 7) Membership applications**

Ordering information:

Model No.: ER300L

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1. Special Features

- **Can detect UID cloned card**
- Contactless USB NFC reader
- Act as a HID keyboard device
- Supported: MIFARE®1k, MIFARE®4k, MIFARE Ultralight®, NTAG213, Desfire
- Output 4 or 7bytes of chip serial number, UID only
- No programming required
- Built in transceiver antenna
- Frequency: 13.56 MHz
- Typical time to read cards: <100ms
- Communication interface: USB
- Power supply : DC 5V, BUS power
- Dual LED indicator and buzzer
- Support OS: Windows, Mac OS, Linux, Android, iOS
- Mechanic and environmental characteristics:
 - Dimensions: 120 ×80×16 (mm)
 - Operating temperature: -10 ~50 °C
 - Storage temperature: -20~70 °C
 - Relative humidity: up to 95%
 - Weight: 100g

2. Output mode

The ER300L is a NFC reader which can read MIFARE®1k, MIFARE®4k, MIFARE Ultralight®, NTAG203 NFC tags. This reader acts as a USB HID keyboard device.

When ER300L is deployed, no software is needed. It uses standard USB drivers supplied by the operating system such as Windows, Macintosh Android and Linux .

The ER300L reader can read the supported cards and print the card's UID as 8 or 14 Chars(Hexdecimal format) and then end with "**Enter**" Key.

The output result is same with the NFC phone scanning.

If the reader detects a cloned UID card, it will beep 2 sounds but will not output data.



Example:



3. Device Connect

Plug the USB port to the PC USB port, after power on the blue led will flash, it means that the reader is ready.

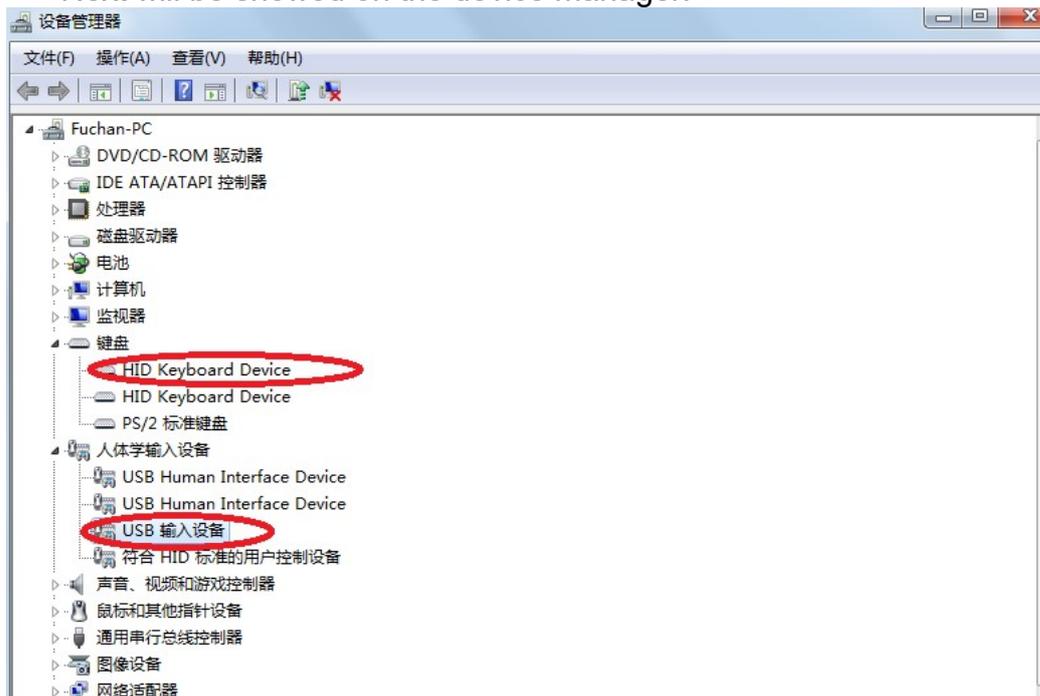


When plug the ER300L reader to the PC's USB port, the system will recognize it as HID keyboard device.



When plug th
usb port, the
know it.

Next will be showed on the device manager:



It may show different with different system.

After installation successfully, open "Excel " or other application program to read the RFID Tag and the tag's UID will be shown on the screen .

4. Electrical Characteristics

4.1 Operating Condition Range

Relative humidity: up to 95%

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
Tamb	Ambient Temperature		-10	25	50	°C
VDD	DC Supply Voltage	DVSS = 0V	4.5	5	5.5	V

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Table 1 - Operating Condition Range

4.2 Current Consumption

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
IDVDD	Supply Current	Reading card	25	30	50	mA

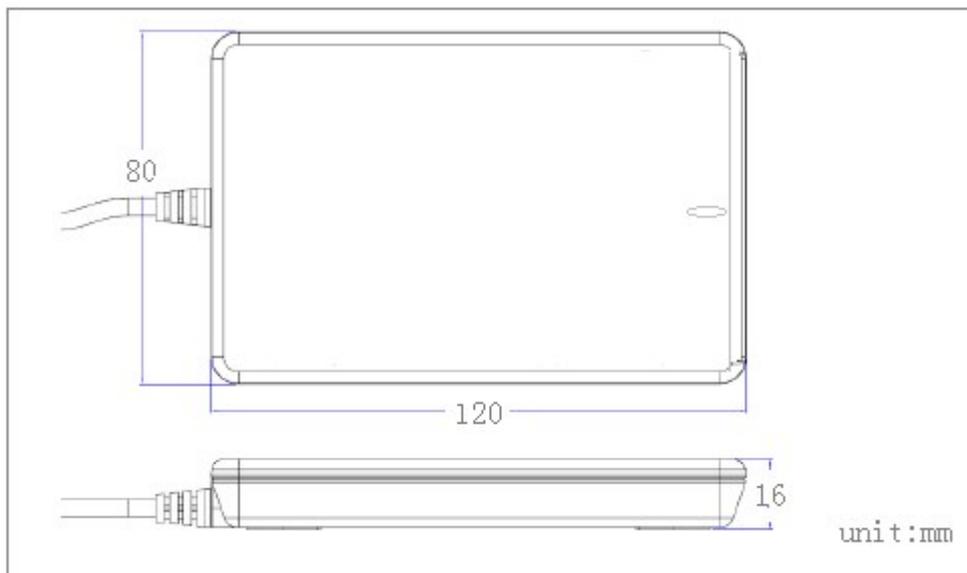
Table 2 - Current Consumption

4.3 Operating Distance

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
OD	Tag size more than 20mm	Measured from the reader bottom	16	100	110	mm

Table 3 - Operating Distance

5. Layout



6. Legal information

6.1. Disclaimers

General — Information in this document is believed to be accurate and reliable.



ER300L

NFC Reader

UserManual

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