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<u>125kHz USB RFID ID Card Reader Writer Instruction</u></u>



Introduction:

RFID (Radio Frequency Identification) is a technology that uses electromagnetic fields to identify objects in a contactless way; it is also called proximity identification. There are 2 elements in **RFID** communications: the **RFID** module (or reader/writer device) and an **RFID** card (or tag).

Card: composed by coupling components and chip, every tag has only electronic coding, adhere to the target object identifier

Reader: equipment used to read (sometimes can write) tag information, can be designed for handheld or stationary.

203-ID-RW is desktop readers are smart modules without touching based on international standard agreement ISO14443A, It's very easy to Secondary development by this device. High capability, anti-jamming, small size and good quality, which brings more convenience.



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Packing List:

- 1 x Card Reader/Writer
- 1 x USB Cable
- 5 x IC Cards (125kHz Read Write)
- 5 x Key Fob (125kHz Read Write)
- 1 x CD

Specification:

- Model : USB-203
- **Frequency** : 125kHz

• Supported Card/Tag: EM4100/EM4001/EM4102, TK4100, EM4305, T5577, T5557, T5566 or compatible ISO cards/tags

- Size : 9.5cm×6cm×1.2cm
- Colour : Black
- Interface : USB
- **Power SupplyDC** : 5V
- **Operating Distance** : 0cm-3cm (related to the card or the environment)
- Weight : 32 gram
- Cable length : 1m
- Material of reader : Plastics
- **Operating System** : Win XP, Win 7, Win8 & Win 10
- Indicators : Buzzer & LED (Red, Green & Yellow)



Guide:

(A). Setup the RFID Reader & Writer with PC:

- 1. Connect the RFID reader writer to computer using the provided USB cable. Note that the reader may install driver automatically when connected to PC.
- 2. Insert the CD given into PC and Open the **ID-RW-NO-Drive-EN.exe** application. A New application window will pop up as step number 3 below.
- 3. Program Description.





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(B). Reading Card ID using the Reader and provided Software:

- 1. Connect the RFID Reader & Writer to PC and Open **ID-RW-NO-Drive-EN.exe** application / software provided, same as earlier step (A) above.
- 2. Place the 125kHz RFID Read/Write Card on the Reader.



 On ID-RW-NO-Drive-EN application / software click on Connect button. After the reader Status show 'Reader connection is successful' click on Read Card, the card ID will be displayed.

🖳 ID-RW		— — X
Status 1 Conne-	Disconnect	Status : Reading Success
Number Format		🦳 Analog USB keyboard
© 10H	65007496E4	Lock card operation
● 8H> 10D	0007640804	Card number incremented
© 6H> 8D	07640804	Read Card
◎ 2Н + 4Н	116 , 38628	Write Card
File	elete Auto Write	Stop Write Clear



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(C). Writing Card ID using the Reader and provided Software

- 1. Connect the RFID Reader & Writer to PC and Open **ID-RW-NO-Drive-EN.exe** application / software provided, same as earlier step (A) above.
- 2. Place the 125kHz RFID Read/Write Card on the Reader.



3. On **ID-RW-NO-Drive-EN** application / software click on **Connect** button. After the reader Status show **'Reader connection is successful'.** Fill in the 10H box with the new ID that want to be changed. Click on **Write Card** to start writing new value to Card.

🖳 ID-RW		
Status Conr	1 Disconnect Rea	tus : ding Success
Number Format	2	🦳 Analog USB keyboard
🔘 10Н	222222222	Lock card operation
● 8H> 10D	0572662306	🔲 Card number is incremented
© 6H> 8D	02236962	ReadCard
◎ 2Н + 4Н	034 , 08738	Write Card
File	Delete Auto Write	Stop Write Clear

4. If the reader was successfully written the new value to the card, the **'Write Successful'** text will be displayed and you may check the card by repeating Step (B).



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🖳 ID-RW		
Status		
Com	Disconnect	Status : rite successful
Number Format		🦳 Analog USB keyboard
🔘 10Н	111111111	Lock card operation
● 8H> 10D	0286331153	🔲 Card number is incremented
© 6H> 8D	01118481	Read Card
© 2H + 4H	017 , 04369	Write Card
File	Delete Auto Write	Stop Write Clear

Re-check values after changing:-

ID-RW		
Status		
Conne	Disconnect	Status : Reading Success
Number Format		🦳 Analog USB keyboard
© 10Н	111111111	Lock card operation
⊗ 8H> 10D	0286331153	Card number is incremented
© 6H> 8D	01118481	Read Card
⊚ 2н + 4н	017 , 04369	Write Card
File	Delete Auto Write	Stop Write Clear



(D). Change to Automatic Reader Mode:

1. Connect the RFID Reader & Writer to PC and Open **ID-RW-NO-Drive-EN.exe** application / software provided, same as earlier step (A) above.



2. On **ID-RW-NO-Drive-EN** application / software click on **Connect** button. After the reader Status show '**Reader connection is successful**' check the **Analog USB Keyboard** option box. Next, click on Read Card the reader LED indicator should flashing.

💀 ID-RW		
Status Conne	Disconnect	Status : 2 Reading success
Number Format		✓ Analog USB keyboard
🔘 10Н	6500750E6F	Lock card operation
⊗ 8H> 10D	0007671407	Card number is incremented
© 6H> 8D	07671407	Read Card
🔘 2Н + 4Н	117 , 03695	3 Write Card
File D	elete Auto Write	Stop Write Clear

3. Open any text writing software (example: Notepad, Excel, Word & WordPad) and click on area you want to write it.



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🗍 Untitled - Notepad	X
File Edit Format View Help	
0007640804 0007640804 0007671407 0007640804	*
0007640804 0007671407	
	-
<	►

4. Place the any 125kHz cards or Tags to get the card ID.



5. Click disconnect to stop using automatic reader mode.

Applications:

- Access Control
- Parking Systems
- Prepaid Parking
- Ticketing
- Time and Attendance
- Admission Control
- POS system