

Mifare Cards USB Emulation Keyboard Reader

Mifare card USB HID Read /Writer (V2.01)

CR508AU CR608-02AU CR509U-HF

(USB HID support)



1. Mifare Standard

- 1024 bytes EEPROM, divided into 16 sectors with 64 bytes on each sector
- 100,000 write endurance cycles
- 10 years data retention
- ISO 14443 A
- 13.56MHz transponder frequency
- 106 kbit baud rate
- Bit-wise anti-collision
- Up to 10 cm operating distance
- 4 byte unique serial number
- Random number generator
- 2 bytes access key per sector

- Individual access condition for each sector
- Purse functionality

2. Technical Specification CR508 CR608-02AU CR509U-LF

- Power supply: 5V, 80-100mA
- USB Virtual Keyboard
- USB HID ,USB Virtual RS232
- Read distance of up to 60mm, depending on TAG
- Storage temperature: -40 °C ~ +85 °C
- Operating temperature: -25 °C ~ +65 °C (I)
Customer OEM ODM

3. Usb Keyboar Emulation

Mode 1 : sent out four byte card SNR Hex

Eg: 56 78 9A BC <Enter>

Mode 2 : sent out four byte change to 10 decimal

Eg: card snr is 56 78 9A BC

Sent out : 1450744508 <enter>

Mode 3 : sent out 7 byte card SNR Hex (mifare ultralight ,desfire or other 7bytes UID TypeA card)

Mode 07 6H8D

3. Usb Keyboar Emulation

Example: mifare 1k block 0 data as

BC 9A 78 56 xx xx xx xx xx xx xx xx xx xx xx xx (Block 0 Data)

Mode 1 : sent out four byte card SNR Hex

Eg: 56 78 9A BC <Enter>

Mode 2 : sent out four byte change to 10 decimal

Eg: card snr is 56 78 9A BC

Sent out : 1450744508 <enter>

Mode 3 : sent out 7 byte card SNR Hex (mifare ultralight ,desfire or other 7bytes UID
TypeA card)

Mode 4 : 0x78H change to 3Dec = 120 , 0x9A BC change to 5 Dec = 39612

Sent out : 12039612 <enter>

Mode 07 6H8D

4. Usb HID Read/Write CR509U-HID-1356

USB HID interface ,needn't install driver

Windows SDK

VC, VB , Delphi ,C# ,Java BS CS sample code

Support :

Mifare s50, s70, ultralight, mifare s50 7byte UID card

VB DEMO Form

The image shows a screenshot of a Windows application window titled "VB DEMO". The window's content is titled "MIFARE ONE DEMO". It features several input fields and controls:

- PID:
- VID:
- Index:
- Serial Number:
- KEY MODE section:
 - KEY A
 - KEY B
 -
- BLOCK (0-63):
- DATA:
- Buttons: Request, Read, Write, Halt

VC DEMO FORM

The image shows a software window titled "HID_VC" with a standard Windows-style title bar (minimize, maximize, close buttons). The window contains a form with the following elements:

- PID:** Text box containing "0508"
- VID:** Text box containing "0E6A"
- Index:** Text box containing "1"
- Serial Number:** Empty text box
- KEY:** Empty text box
- KEY Selection:** Two radio buttons labeled "KEY A" (selected) and "KEY B"
- sector:** Dropdown menu showing "0"
- block:** Dropdown menu showing "0"
- DATA:** A vertical stack of four input fields:
 - Line 1: A single wide text box.
 - Line 2: A single wide text box.
 - Line 3: A single wide text box.
 - Line 4: Three separate text boxes of equal width.
- Buttons:** Two rows of three buttons each:
 - Row 1: "CONNECT", "DISCONNECT", "REQUEST"
 - Row 2: "READ", "WRITE", "HALT"