

## Quick Start Guide for RFID Desktop Reader NEO2 with 2 RFID Technologies Inside

**The Baud Rate is fixed set to 9600 kbs.**

### Function Description

This RFID device can be either operated in full read/write mode or in automatic read mode with keyboard emulation. The keyboard emulation works as compatible HID\* device, so that it will operate with most common operating systems. To operate the device, you have to download one or more SDKs from our Website. The links are listed on the end of this document.

**When in keyboard emulation mode, it is not possible to do normal read/write operations.**

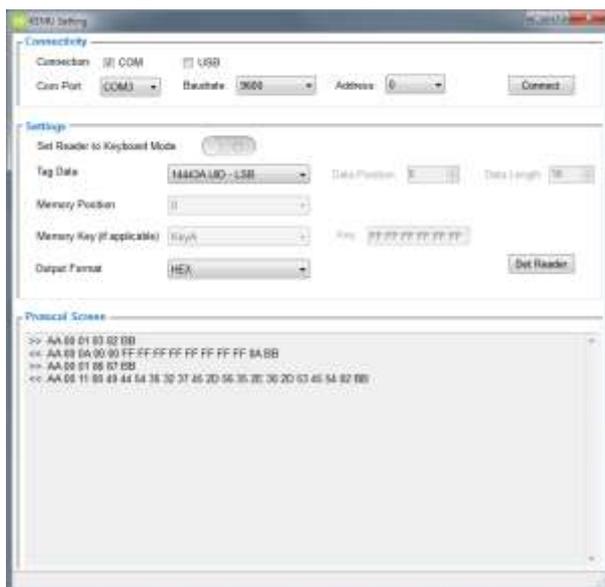
### USB Driver Installation

If the device is connected to a PC for the first time, it can take some time for automatic installation of the drivers. If this is the case, please wait until this is fully done.

Normally the USB drivers are automatically installed with Windows operating systems. In rare cases it is possible, that automatic installation fails. Then perform a manual installation of the drivers in archive file "CH341SER.ZIP".

The device contains the CoreChips SL2.1A USB Hub Controller. For this chip there is no driver needed. Internally this is connected to a CH340E single USB-TTL Converter and an STM32F103  $\mu$ C. These provide simple virtual COM-ports (VCP).

### Switching between read/write Mode and Keyboard Emulation Mode (HID\*)



You can switch between the 2 modes with the "KEMU Setting" Software.

With this software you can configure the working mode of the reader and the output.

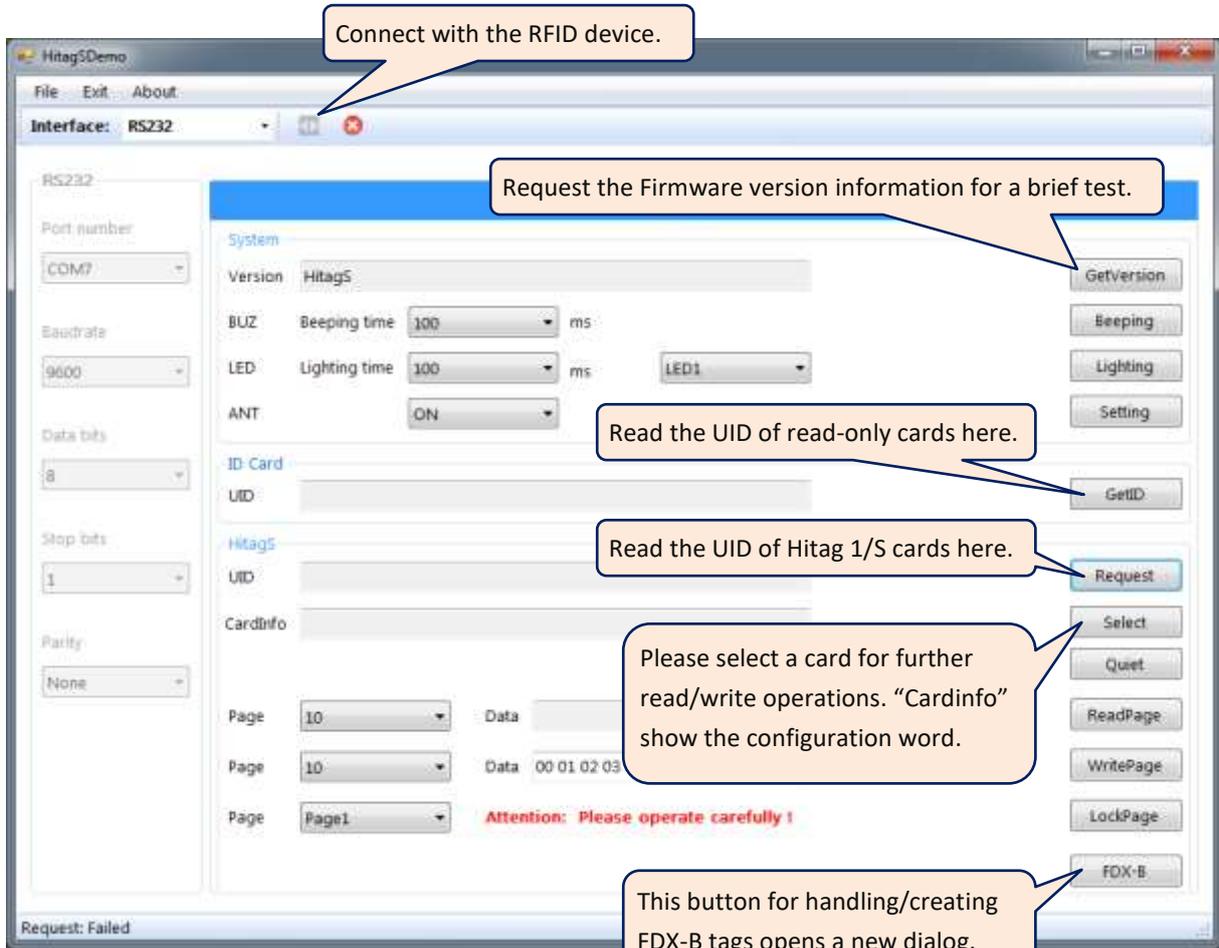
Important: In the software there's a slide switch, with which you can switch between the working modes, but it doesn't update in real time, so it doesn't show you the working mode which the reader is operating at the time!

To store the current setting into the RFID device, click on [ Set Reader ]

IMPORTANT: At the moment this software allows only configuration of HF-RFID function.

\* Human Interface Device, keyboard, mouse, graphics tablet, etc.

LF RFID Technology · Quick Overview on the Test/Demo Software



Connect with the RFID device.

Request the Firmware version information for a brief test.

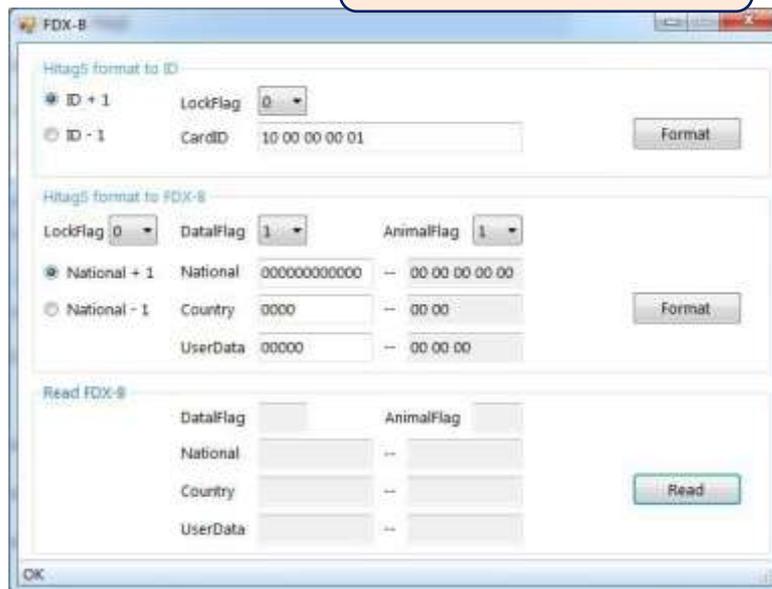
Read the UID of read-only cards here.

Read the UID of Hitag 1/S cards here.

Please select a card for further read/write operations. "Cardinfo" show the configuration word.

Attention: Please operate carefully!

This button for handling/creating FDX-B tags opens a new dialog.



Hitag5 format to ID

ID + 1 LockFlag 0

ID - 1 CardID 10 00 00 00 01

Format

Hitag5 format to FDX-B

LockFlag 0 DataFlag 1 AnimalFlag 1

National + 1 National 000000000000 -- 00 00 00 00 00

National - 1 Country 0000 -- 00 00

UserData 00000 -- 00 00 00

Format

Read FDX-B

DataFlag -- AnimalFlag --

National -- --

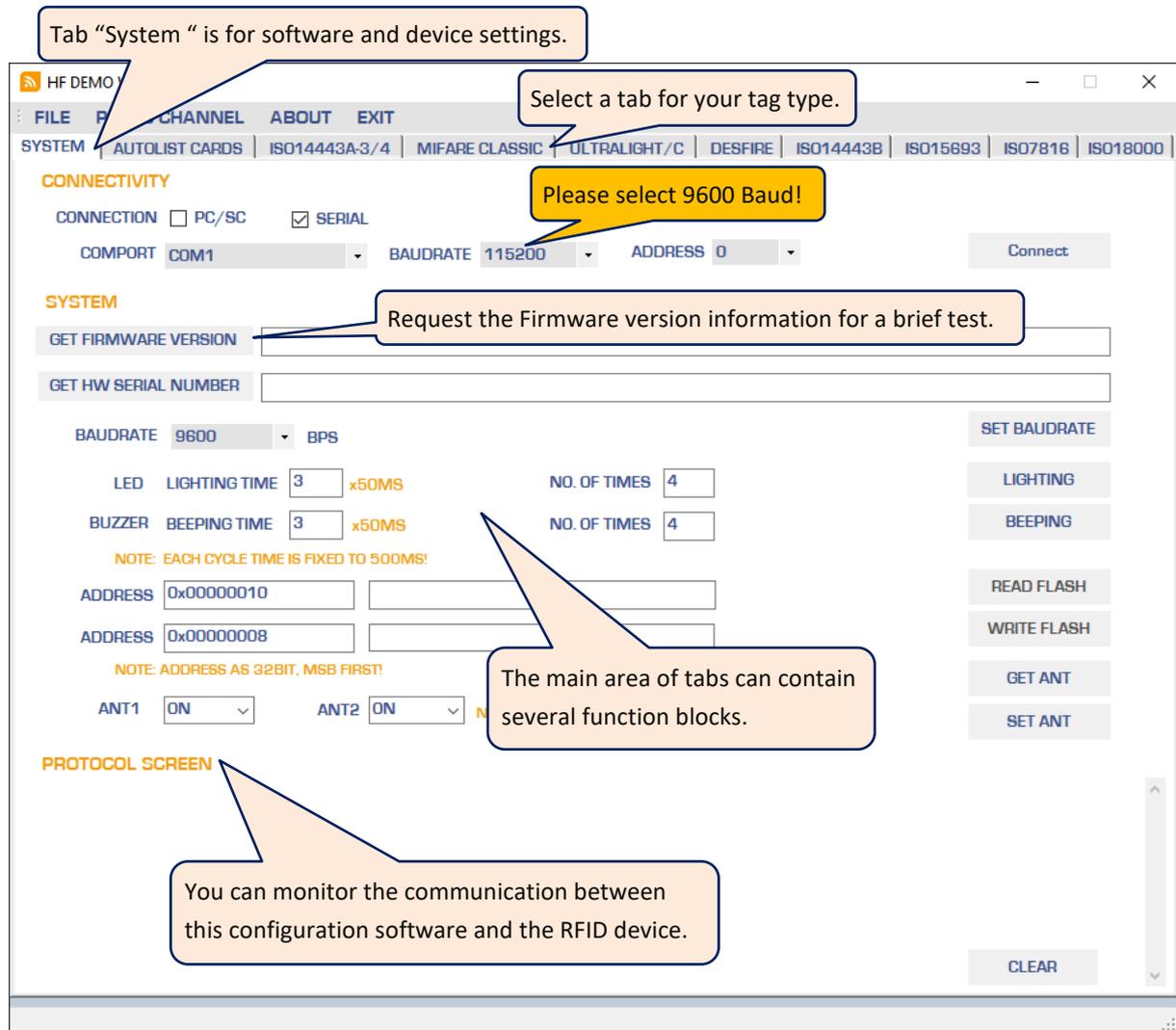
Country -- --

UserData -- --

Read

OK

## DESFire RFID Technology · Quick Overview on the Test/Demo Software



Tab "System " is for software and device settings.

Select a tab for your tag type.

Please select 9600 Baud!

Request the Firmware version information for a brief test.

The main area of tabs can contain several function blocks.

You can monitor the communication between this configuration software and the RFID device.

HF DEMO

FILE CHANNEL ABOUT EXIT

SYSTEM AUTOLIST CARDS ISO14443A-3/4 MIFARE CLASSIC ULTRALIGHT/C DESFIRE ISO14443B ISO15693 ISO7816 ISO18000

CONNECTIVITY

CONNECTION  PC/SC  SERIAL

COMPORT COM1 BAUDRATE 115200 ADDRESS 0 Connect

SYSTEM

GET FIRMWARE VERSION GET HW SERIAL NUMBER

BAUDRATE 9600 BPS SET BAUDRATE

LED LIGHTING TIME 3 x50MS NO. OF TIMES 4 LIGHTING

BUZZER BEEPING TIME 3 x50MS NO. OF TIMES 4 BEEPING

NOTE: EACH CYCLE TIME IS FIXED TO 500MS!

ADDRESS 0x00000010 READ FLASH

ADDRESS 0x00000008 WRITE FLASH

NOTE: ADDRESS AS 32BIT, MSB FIRST!

ANT1 ON ANT2 ON GET ANT SET ANT

PROTOCOL SCREEN

CLEAR

## Get Support

