

## 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.**

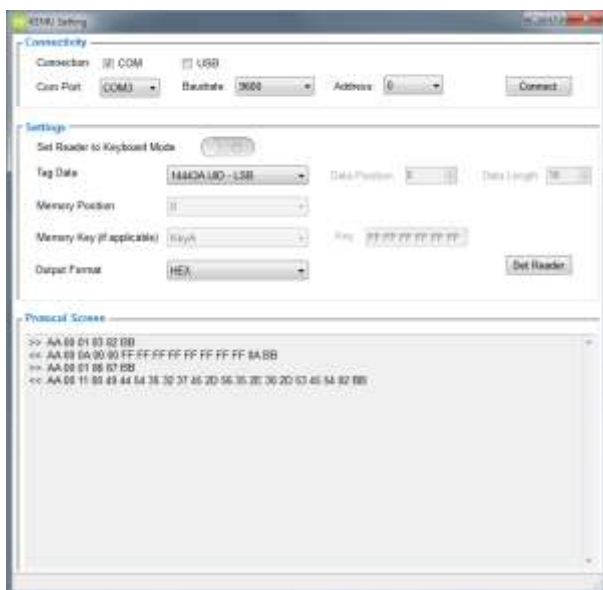
### USB Driver Installation

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.

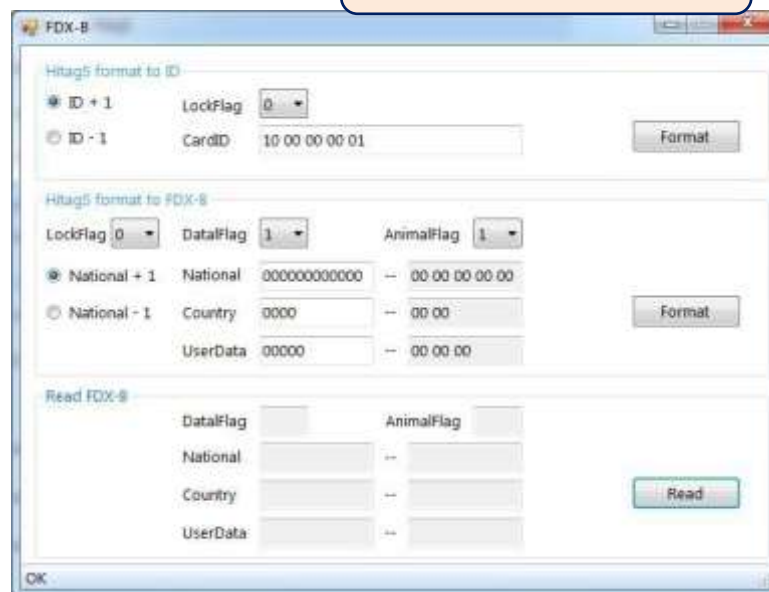
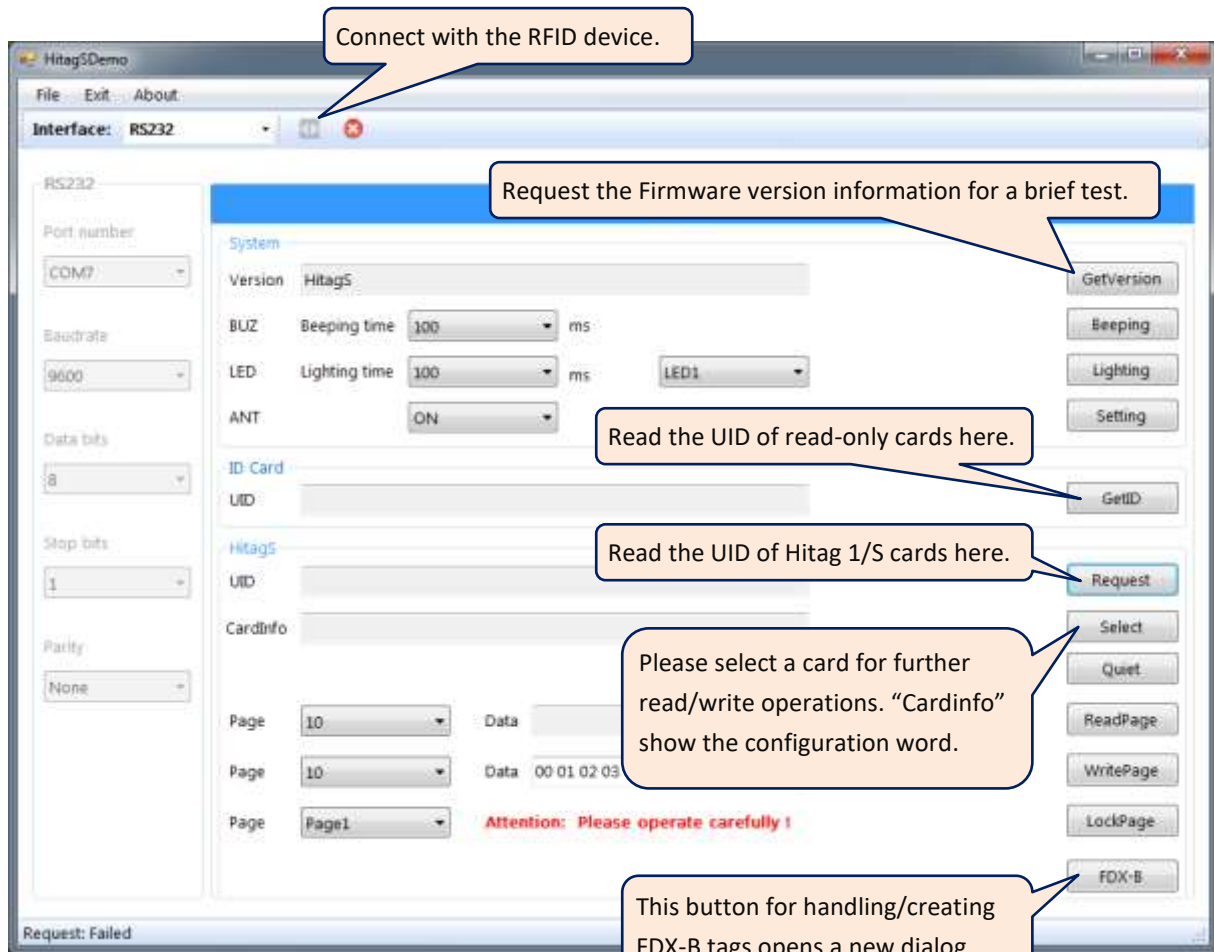
Important: In the software there's a slide switch, with which you can switch between the working modes, but it doesn't update in real time, so it doesn't show you the working mode which the reader is operating at the time!

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



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

Tab "System " is for software and device settings.

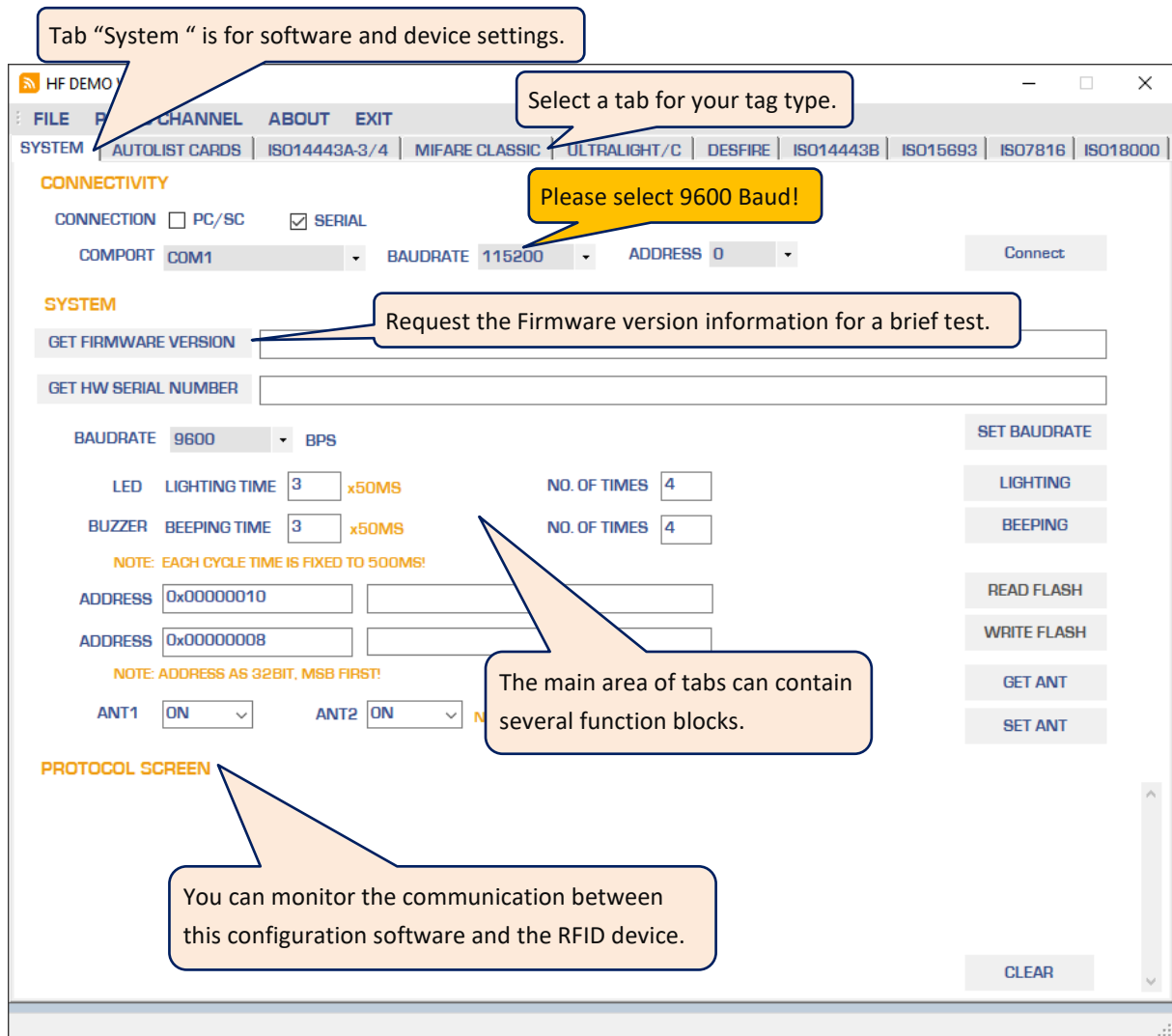
Select a tab for your tag type.

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.



The screenshot shows the 'HF DEMO' application window. The top menu bar includes 'FILE', 'CHANNEL', 'ABOUT', and 'EXIT'. Below it, a tab bar lists various tag types: 'SYSTEM', 'AUTOLIST CARDS', 'ISO14443A-3/4', 'MIFARE CLASSIC', 'ULTRALIGHT/C', 'DESFIRE', 'ISO14443B', 'ISO15693', 'ISO7816', and 'ISO18000'. The 'SYSTEM' tab is selected. The main interface is divided into several sections: 'CONNECTIVITY' with options for 'CONNECTION' (PC/SC or SERIAL), 'COMPORT' (COM1), 'BAUDRATE' (115200), and 'ADDRESS' (0); 'SYSTEM' with buttons for 'GET FIRMWARE VERSION' and 'GET HW SERIAL NUMBER'; a section for 'BAUDRATE' (9600 BPS) and 'LED'/'BUZZER' settings; and 'PROTOCOL SCREEN' at the bottom. A vertical sidebar on the right contains buttons for 'SET BAUDRATE', 'LIGHTING', 'BEEPING', 'READ FLASH', 'WRITE FLASH', 'GET ANT', and 'SET ANT'. A 'CLEAR' button is at the bottom right.

## Get Support



<mailto:support@idtronic.zendesk.com>