



HID Setting V6.2

Function Setting Firmware Update

Connectivity

Connection: ☒ COM

ComPort: COM1 Baudrate: 115200 Address: 0 [Connect](#)

Settings Dual HID Mode

Set Reader to HID Mode ☒

Working Mode: 00: HF 14443A LSB

Memory Position: 00 Data Position: 0 Data Length: 16

Memory Key(if applicable): ☒ Key A ☐ Key B Key: FF FF FF FF FF FF

Output Format: ☒ Number ☐ ASCII

HID Format: ☒ Lowercase ☐ Uppercase

LF + HF Enable

HF Data Format: 00 = 00: HF 14443A LSB

LF Data Format: 10: LF Read UID LSB of read-only tag type

LF Page Address: 00 [SET READER](#)

Prefix: Prefix1: No Prefix Prefix2: No Prefix Prefix3: No Prefix

Postfix: Postfix1: No Postfix Postfix2: No Postfix Postfix3: No Postfix

Protocol Screen [SET](#)

[CLEAR](#)

NEO2 - HID

Configuring Prefixes and Postfixes

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1 Introduction

1.1 Important Note

The function to add prefixes and postfixes to the HID output of the dual frequency RFID devices may not be possible with every firmware version.

1.2 Reference Documents

In the freely available HID Usage Tables 1.6.pdf, see chapter "10 Keyboard/Keypad Page (0x07)" starting page 89.

2 Configuration Software HID Setting

Select the prefixes and postfixes as needed with the help of the dropdown menus. Enter-Right refers to the key on the keypad. An example is shown in the second picture.

The interface shows configuration options for HID settings. The 'Prefix' section includes Prefix1 (No Prefix), Prefix2 (No Prefix), and Prefix3 (No Prefix). The 'Postfix' section includes Postfix1 (No Prefix), Postfix2 (No Postfix), and Postfix3 (No Postfix). A dropdown menu for Postfix1 is open, showing options: Keyboard [ENTER-LEFT], Keyboard [ESCAPE], Keyboard [TAB], Keyboard [SPACE], Keyboard [ENTER-RIGHT], and Keyboard #. The 'Protocol Screen' is currently empty. A 'SET' button is located to the right of the dropdowns, and a 'CLEAR' button is at the bottom right of the screen area.

Example:

The example configuration shows: Prefix1: Keyboard [ENTER-LEFT], Postfix1: Keyboard [ENTER-RIGHT], Prefix2: Keyboard [TAB], Postfix2: Keyboard #, Prefix3: Keyboard [SPACE], and Postfix3: No Postfix. The 'Protocol Screen' displays the following data:

```
>> AA 00 01 83 82 BB
<< AA 00 0A 00 00 20 20 05 20 03 18 44 01 71 BB
>> AA 00 01 86 87 BB
<< AA 00 26 00 52 38 35 35 2D 53 45 54 2D 48 46 5F 4C 46 5F 4C 45 47 49 43 20 32 30 32 32 2D 30 39 2D 31
33 20 31 36 3A 31 30 7B BB
>> AA 00 07 FE 28 2B 2C 58 32 00 BC BB
<< AA 00 02 00 80 82 BB
```

At the bottom, the version and serial number are displayed: Version: R855-SET-HF_LF_LEGIC 2022-09-13 16:10 / SN: 2020052003184401.

3 Configuration Command Description

If you need more flexibility, you can compose your control command manually. The BCC checksum is calculated after the Start of Telegram as XOR over all bytes from the Device Address to Postfix3.

3.1 Command from PC to RFID device

AA 00 07 FE 00 00 00 00 00 00 ED BB

The Bytes in Detail

AA = Start of Telegram
 00 = Device Address
 07 = Bytes of Payload (Command + Parameters)
 FE = Command Code
 00 = Prefix1
 00 = Prefix2
 00 = Prefix3
 00 = Postfix1
 00 = Postfix2
 00 = Postfix3
 ED = BCC
 BB = End of Telegram

3.2 The Reply from the RFID device to the PC (Success)

AA 00 02 00 80 82 BB

The Bytes in Detail

AA = Start of Telegram
 00 = Device Address
 02 = Bytes of Payload (Status + Error Code)
 00 = Status, 0x00 = OK
 80 = Configuration successfully changed
 82 = BCC
 BB = End of Telegram

3.3 The Reply from the RFID device to the PC (Error)

AA 00 02 01 89 8A BB

The Bytes in Detail

AA = Start of Telegram
 00 = Device Address
 02 = Bytes of Payload (Status + Error Code)
 01 = Status, 0x01 = Error
 89 = Error code, setting not possible
 8A = BCC
 BB = End of Telegram

3.4 Configuration Bytes for Prefixes/Postfixes

The value of this Byte is simply passed to the HID output. So, you can freely select any keypress as described in chapter 10 of the document on HID Usage Tables.

The firmware will only check if the value of this Byte is not allowed. In this case this Prefix/Postfix is not active. If the value of this Byte is allowed, it is passed to the USB interface as Usage ID of a keyboard.

This table shows a selection of typical values of the Prefix/Postfix configuration Bytes:

Value	Description	Designation
0x00	No Prefix/Postfix	No Prefix/Postfix

0x28	Keyboard [ENTER]	Keyboard [ENTER-LEFT]
0x29	Keyboard [ESCAPE]	Keyboard [ESCAPE]
0x2B	Keyboard [TAB]	Keyboard [TAB]
0x2C	Keyboard [SPACE]	Keyboard [SPACE]
0x58	Keypad [ENTER]	Keyboard [ENTER-RIGHT]
0xA5 - 0xAF	No Prefix/Postfix	Values not allowed.
0x32	Keyboard #	Will only work on non-US keyboards
0xDE	No Prefix/Postfix	Value not allowed.
0xDF	No Prefix/Postfix	Value not allowed.
0xE8 and above	No Prefix/Postfix	Values not allowed.

3.5 Important Note

If you want to have numbers in prefixes or postfixes, you must use the Byte values from the numerical keypad. To be able to get the special shift characters of the keyboard numbers row, the firmware automatically adds a [Shift] to values that are selecting a keyboard number.

4 Revision History

Date	Version	Description
2023-02-03	0.6	Rework as User Manual
2024-07-11	0.7	Details changed. Information about [Shift] before codes of keyboard numbers added.