CONFIGURATION OF THE BUILT-IN HID KEYBOARD EMULATION

1 Preface

By default the device is installed as another keyboard (Human Interface Device = HID). This is done automatically and does not need your intervention. Simply plug in the device and wait a few seconds.
Only if you want to configure the behavior of the device, download the SDK file package from our website and consult the rest of this document.

2 Introduction

When you plug the RFID device into your PC's USB port it operates as com port for 5 seconds.



Therefore the RFID device will appear as COM port in the "Printers and Devices" tab.

After a few seconds this symbol disappears. A moment later the device appears as keyboard. The keyboard emulation has started.



The RFID device now reads the EPC of an UHF RFID transponder and "types" the EPC once into your PC.

By default, the RFID device memorizes the latest EPC for 5 seconds (factory default setting). So when the RFID transponder remains near the RFID device it does not repeatedly type the EPC. And, if you remove the RFID transponder from the vicinity of the RFID device, it needs to be at least 5 seconds (factory default setting) remote until it will be typed in as "newly recognized".

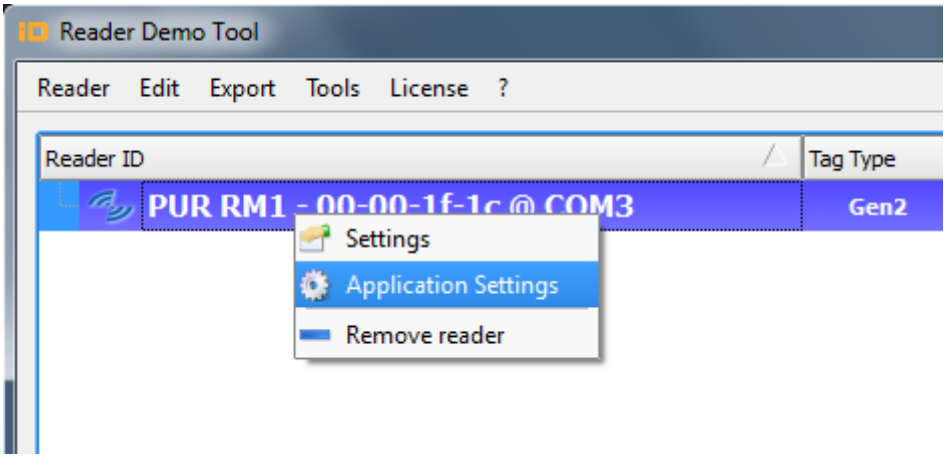
3 Connect for Configuration

Be sure to have the Reader Demo Tool as of version 1.61.33a.

3.1 Connect to the RFID Device

If you want to configure the RFID device you have to connect to it and send a command in the first seconds, while it is operating as virtual com port. The easiest way to do this is to open the Reader Demo Tool first, then plug in the RFID device and select from the menu "Reader" "add" the reader to the Reader Demo Tool.

In newer versions it will be automatically connected by the Reader Demo Tool and remains active as com port. Now you can chose "Application Settings" to access the HID keyboard emulation settings



Attenuation:	0…19 steps
Timeout:	Scan interval. Step up/down in steps of 250 ms or type in the desired value. This value will incredibly slow down operation of the RFID device. So it is recommended to leave this to the factory default setting.
Prepend Enter:	Add a carriage return before the EPC number.
Append Enter:	Add a carriage return after the EPC number.
Reset time:	The time an EPC is memorized to suppress steady typing the same number.

IMPORTANT NOTE!

Be sure to store the settings into the RFID device with "Store Settings Permanent".



The graphics show the factory default settings.

3.2 Disconnect the RFID Device

After successful configuration plug out the RFID device, close the Reader Demo Tool and plug in the RFID device again. Pls. wait 5 seconds until it switches to operate as HID keyboard device.

4 Test Procedure

- Open a word processor.
- Plug in the reader. In „devices and Printers" watch the reader switching off and the keyboard appearing.
- Place 2 UHF RFID tags with differend EPCs on opposite sides of the reader.
- Now the two EPCs should be typed in alternating.

5 Appendix: Tx Power Table

Attenuation	dBm	mW
0	+20	100
1	+19	79
2	+18	63
3	+17	50
4	+16	40
5	+15	32
6	+14	25
7	+13	20
8	+12	16
9	+11	13
10	+10	10
11	+9	8
12	+8	6
13	+7	5
14	+6	4
15	+5	3
16	+4	2,5
17	+3	2
18	+2	1,6
19	+1	1,3