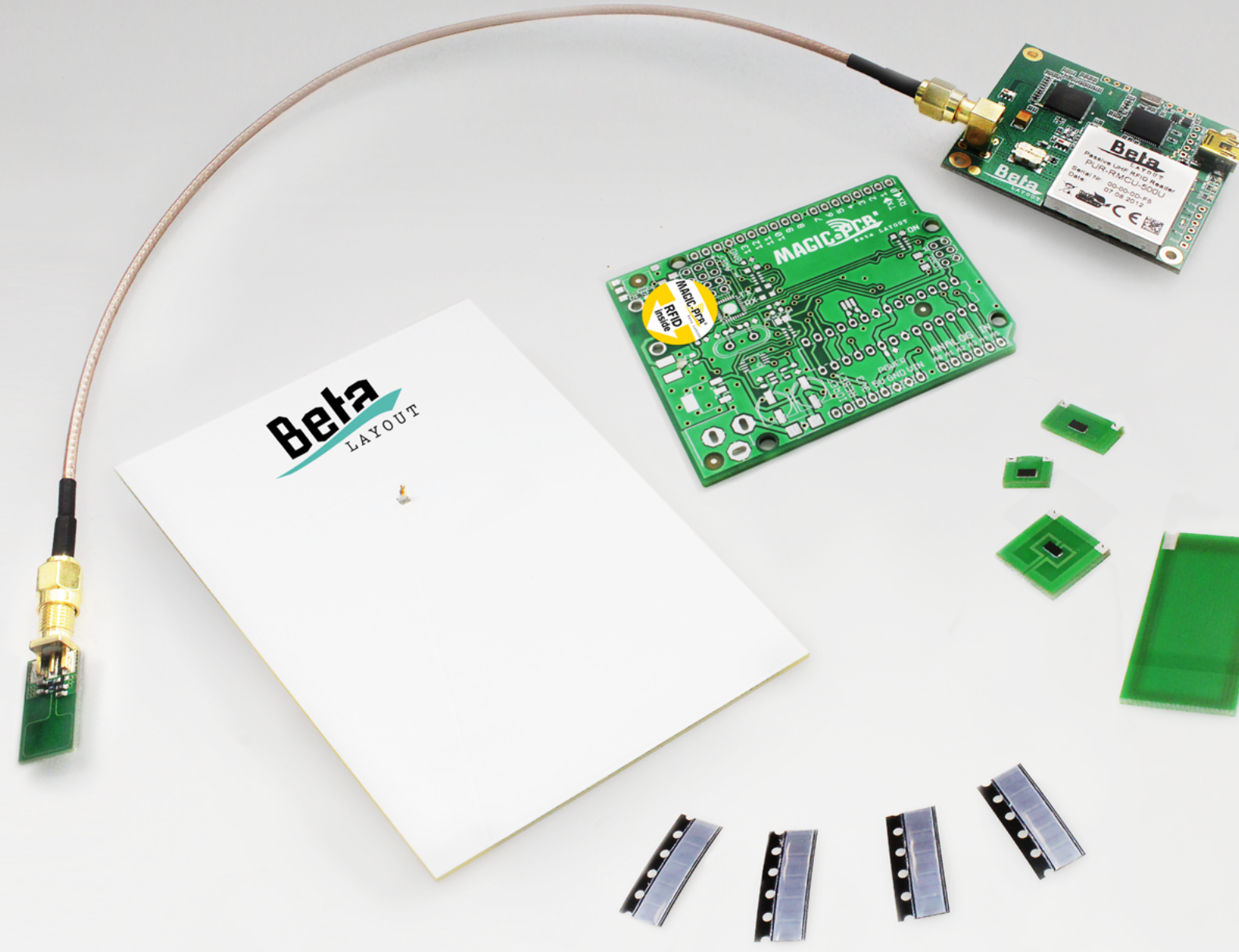
Smart Reader App Manual

with Quick Start



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1. Quick Start

First step connect Antenna with the reader.
Carefully connect the SMA-Plug into the socket - do not tilt as this can lead to a damages to the reader, subsequently establish the USB-connection.

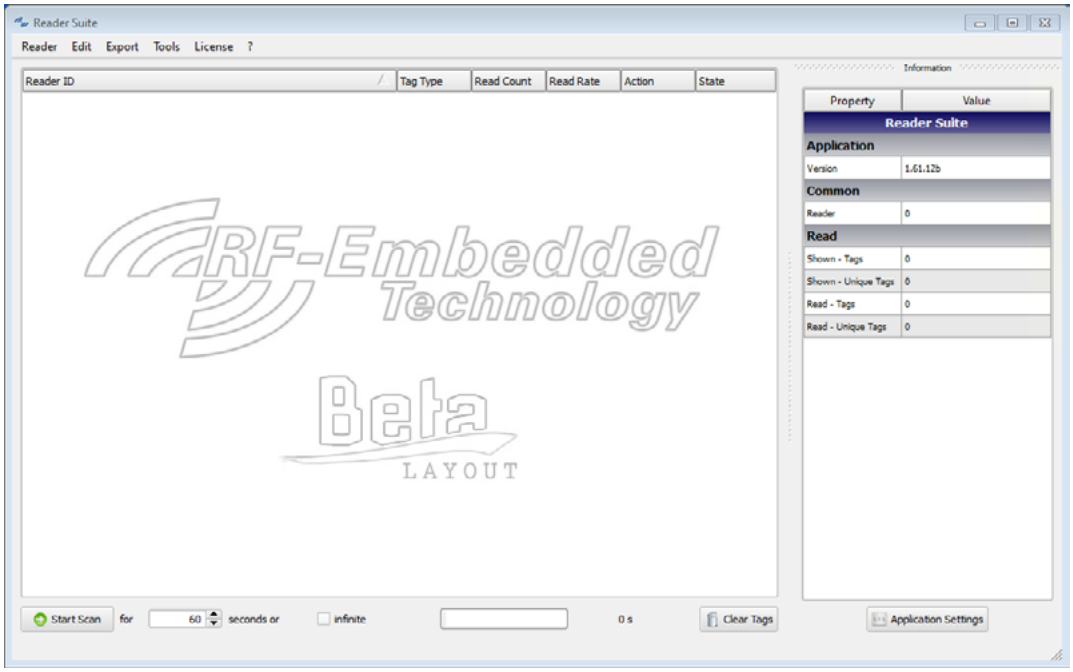
Install the Software

Reader Suite and Smart Reader App do not function when activated simultaneously.

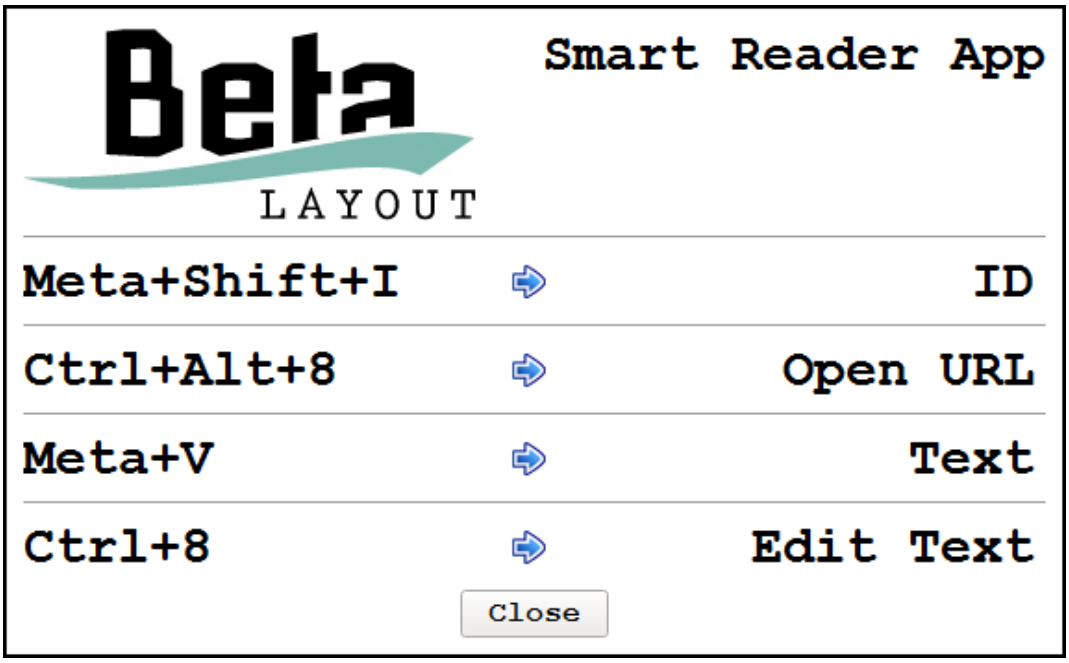
NEVER operate the Reader without the Antenna.
Damage to the power amplifier would be the result.

2. Which software is suitable for which application?

Reader Suite: • Configurating and Testing



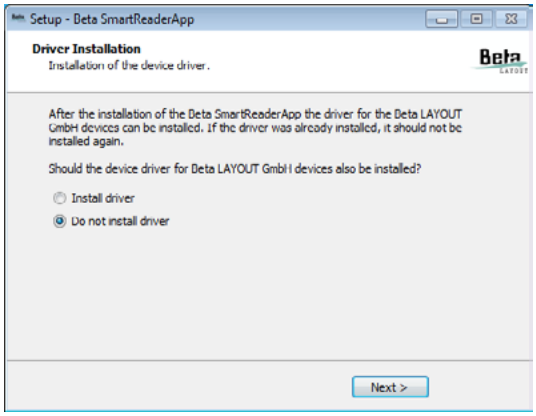
Smart Reader App: • Easy-to-use read/write of tag data
• Website linkage
• Import data into text fields of any chosen program



3. Installing the Smart Reader App

To install the Smart Reader App execute the “SmartReaderApp Setup”.

Proceed step by step through the installation and select the desired options.



On the last page, after the completion of the installation, you will be asked whether or not you want to install the driver for RF-Embedded devices.

If you are installing the Smart Reader App for the first time, you should install the driver.

If you have already installed the Smart Reader App, including the driver previously, the installation of the driver is not necessary.

4. Working with the SmartReaderApp

4.1 Connecting with the Smart Reader App

To be able to work with the SmartReaderApp, there are only two things that that need to be implemented:

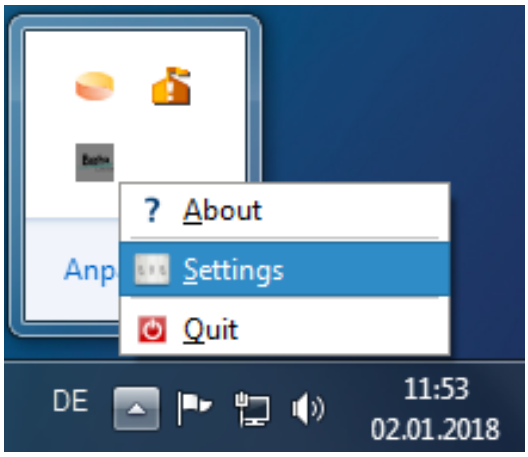
1. Start the Smart Reader App
2. Connect a USB reader

After having started the Smart Reader App, a tray icon will appear.

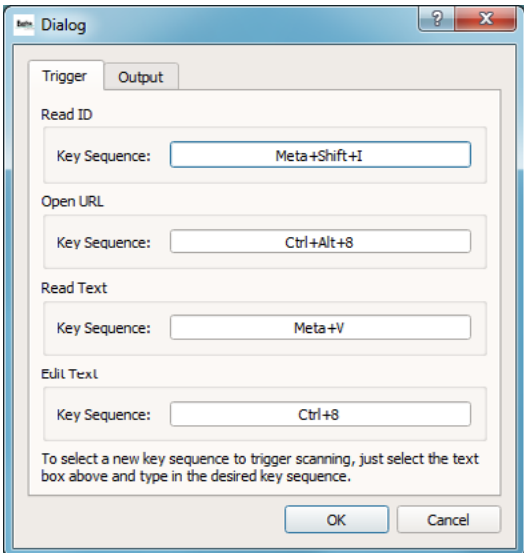
At first the icon is completely dark. In this state the Smart Reader App has not yet detected the reader.

If a reader is attached and detected by the SmartReaderApp the icon will switch to bright. In this state the application is initialized and a scan process can be started.

4.2 Settings

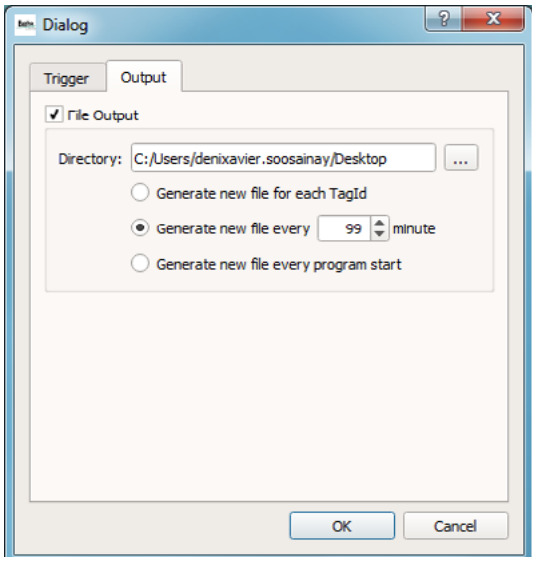


To change the settings right Click on the tray icon of Smart Reader App and then select “Settings”



In the “Trigger” tab, you can teach key combination for each functions.

Select one field and then select new key combination on your keyboard, the new key combinations will appear in the field.

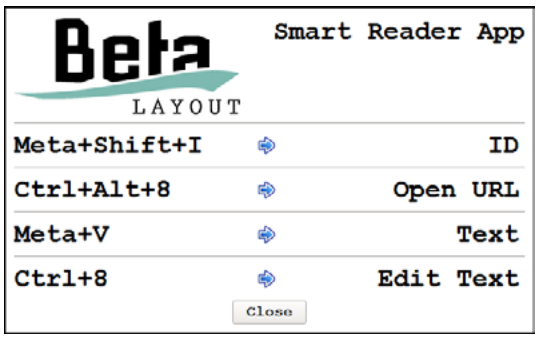


In the “Output” tab, you can change the setting of output file.

Select check box before “File Output”, if you want to save the tag details in a CSV file.

Select the output file path under “Directory”.

Select one of the radio buttons, depending on how often you like to create a new file.



New key combinations will be updated in the interface.

2.3 Read and edit tag data

Before starting a scan process, select the input field regarding, where you want the ID to be filled in. This input field can be any application field, in which text can be entered. For example Notepad, Word, Excel, Outlook, MES input masks ...

To start a scan process , it suffices to press the set key combination.
By default this key combination is: 

If the scan process is started, a progress bar appears which shows the progress of the application.

If a tag was detected successfully, the detected id is written in the selected input field.

Caution: Meta+I and Meta+o are occupied by Windows 10 for its internal function. Change the default key combinations in Windows 10 before you start using the Smart Reader App.

Meta+Shift+I ➪ **ID**

Scanning the tag

Ctrl+Alt+8 ➪ **Open URL**

A key combination connects the tag with an external URL

Meta+V ➪ **Text**

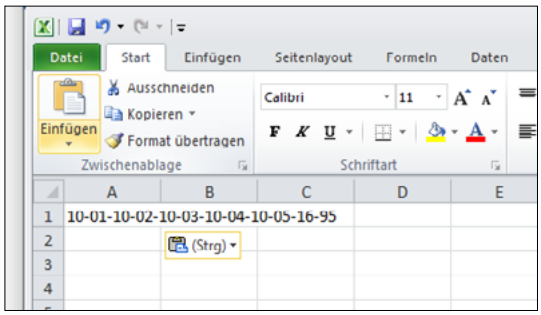
Text is read out of the tag

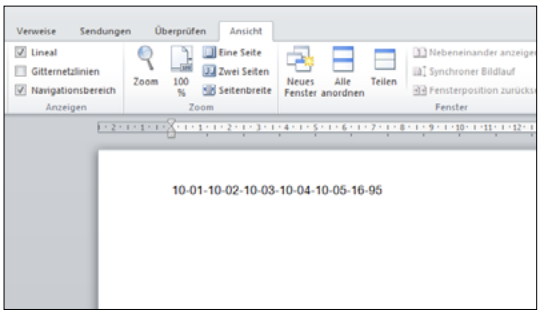
Ctrl+8 ➪ **Edit Text**

Write text on the tag

5. Using the output of the SmartReaderApp

The SmartReaderApp can simply be used, to write IDs to an input field like Word, to Excel or to any other application, which has an input field.





6. Settings for the URL

Windows XP:
C:\Dokumente und Einstellungen\{BenutzerName}\Anwendungsdaten\Beta Layout Gmbh\SmartReaderApp.ini

Windows 7 und Windows 10:
C:\Users\{BenutzerName}\AppData\Roaming\Beta Layout Gmbh\SmartReaderApp.ini

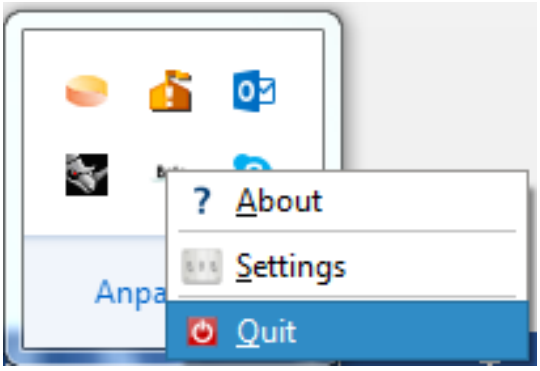
The structure is as follows:

[URL]
PreUrl=”http://www.google.de/search?q=”
PostURL=
Hex=true
StartByte=0
ByteCount=8

The composition is as follows:
URL = PreURL + ID + PostURL

The section of the ID is indicated by StartByte and ByteCount.
You can indicate 8 bytes at maximum for the ByteCount.

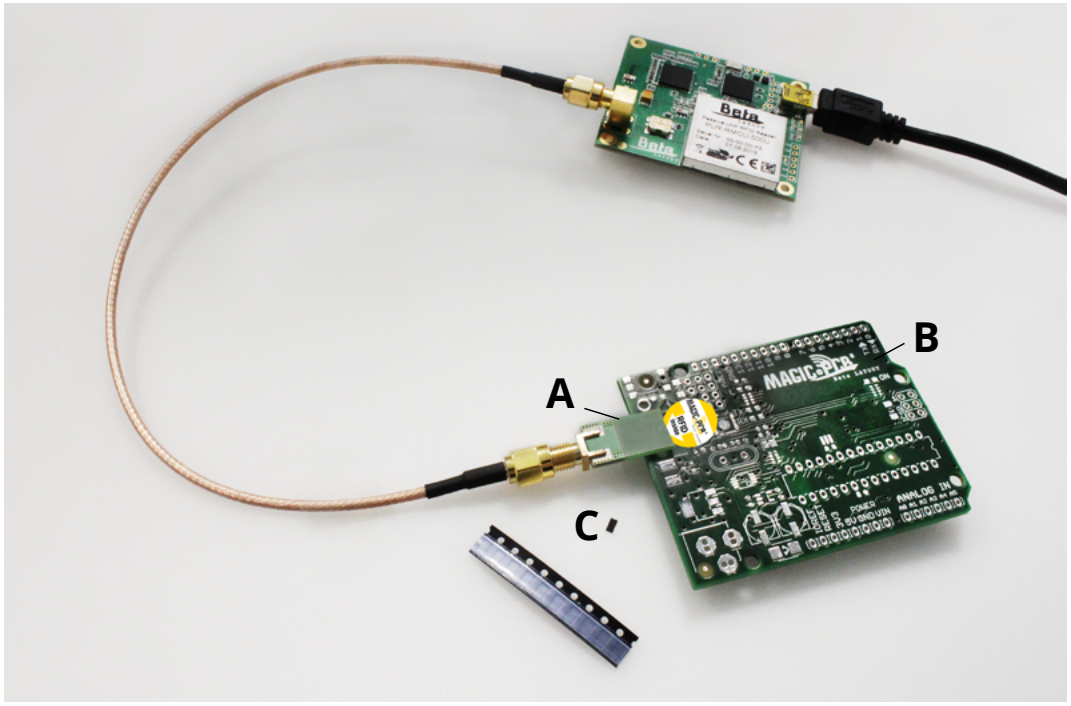
5. Quitting the Smart Reader App



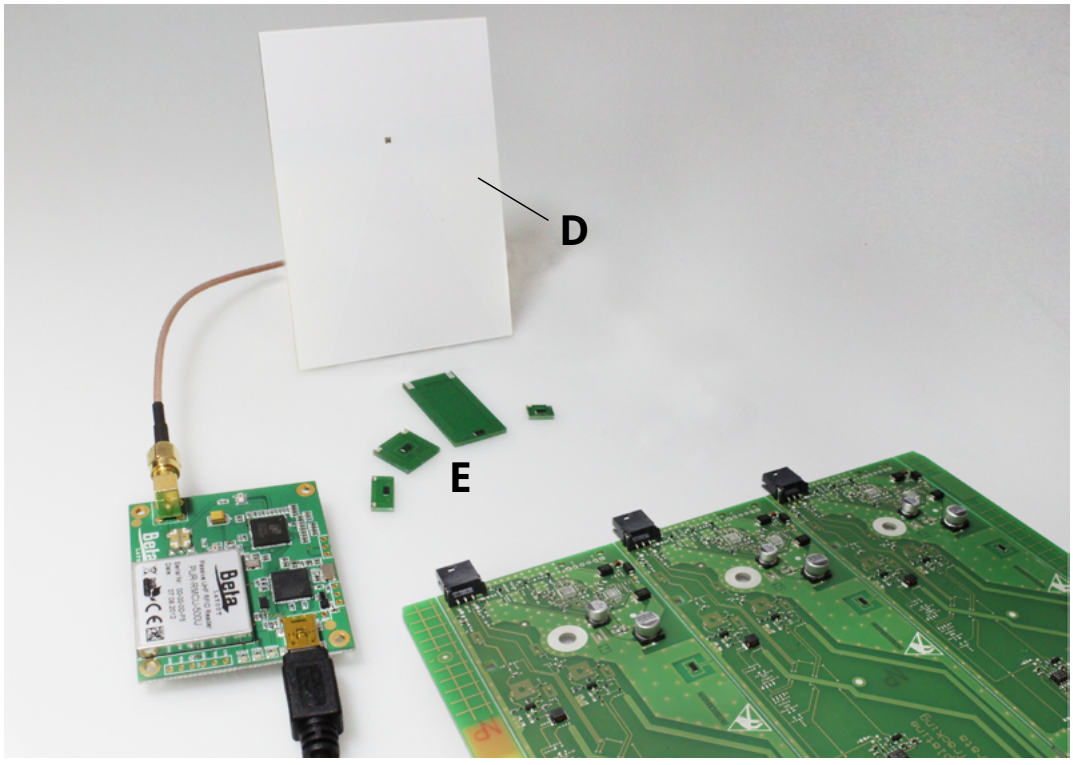
Quit the application by clicking “Quit” at the bottom on the bar in the pop-up menu.

7. Which Antenna is suitable for which Transponder?

The Near-Field-Antenna (A) is required for the read/writeof the MAGIC-PCBs (B) and of the Chips with the index -012 (C).
The range of the Near-Field-Antenna covers only a few millimeters. It is intended for chips without antenna connection.



The Mid Range Antenna (D) is intended for the read/write of all other transponders e. g. Mini-PCBs of the Starter-Kit (E). The range covers a distance up to 1 m, dependent on the transponder type and design.



8. General information

Please read this guide carefully prior to using the rfid read/write module as it contains important information on the functions, operation and maintenance of the product.

Note:
This documentation is based on the product knowledge available at the time of manufacture. The accuracy and completeness of the work in question cannot be guaranteed. Technical changes for product advancement are excluded. This documentation and the information it contains are subject to copyright and cannot be reproduced either in full or in part or distributed to third parties without the written consent of the publisher.

1.1 Warranty and liability

Our “General sales and delivery conditions” are always applicable.
Beta LAYOUT excludes any warranty or liability claims for personal and material damages caused by one or more of the following:

• inappropriate use,

• incorrect assembly, setup or operation,

• failing to observe information, requests or warnings in the operating instructions,

• unauthorised structural modifications to the equipment,

• improperly carried out maintenance or repairs.

Any damage caused by failing to follow the operating instructions will render the guarantee/warranty null and void. We accept no liability for consequential damages arising from the above.

9. Safety

2.1 Intended use

This product can only be used with antennas (RK-10384 or RK-10244) to communicate (read/write) with UHF-RFID chips.

Using it for any purpose other than the above will lead to product damage, and inappropriate use is also associated with hazards such as short circuits, fire, electric shock etc. The product must not be changed or modified in any way.

This product complies with all legal, national and European requirements.