

Annex no. 5

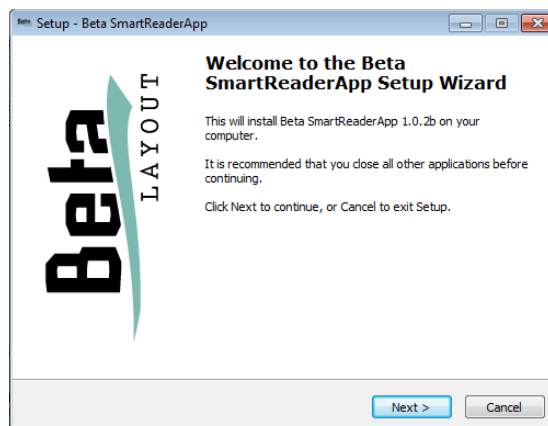
Functional Description / User Manual

Quick Start

1. **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.



2. Install the Software



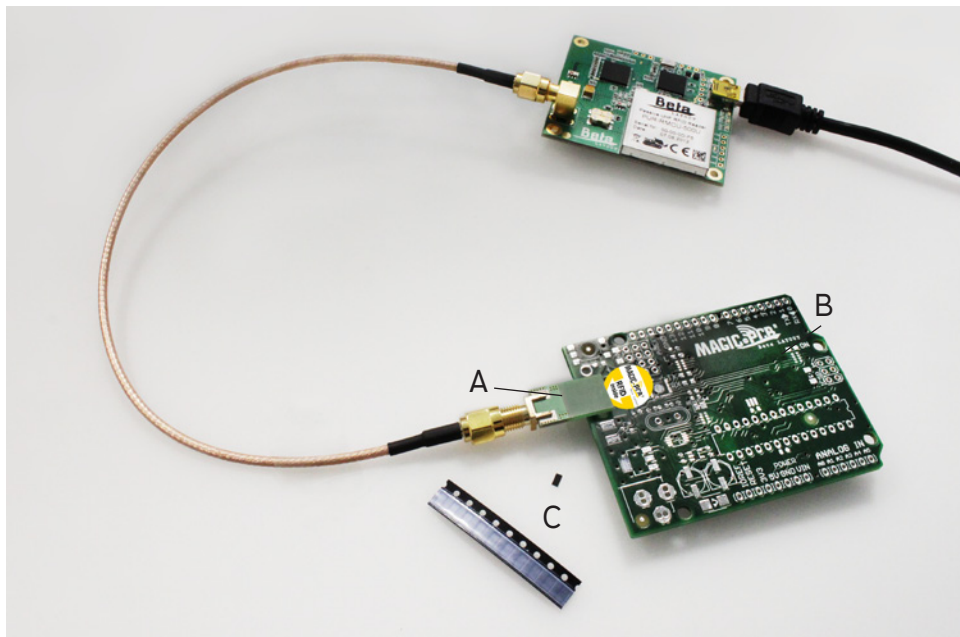
3. Reader Suite and Smart Reader App do not function when activated simultaneously.

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

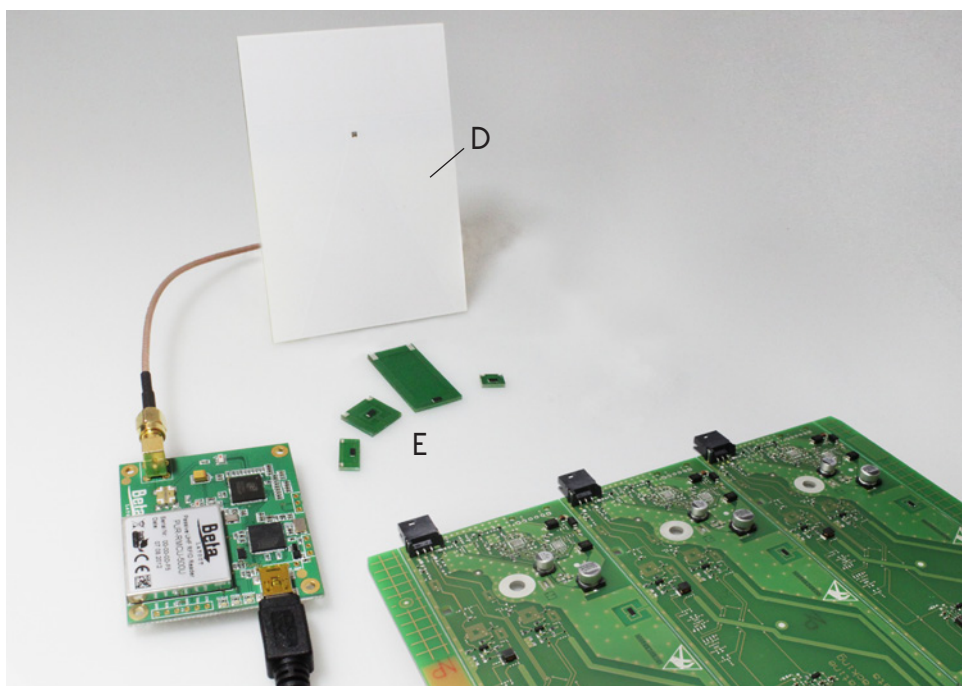


5. Which Antenna is suitable for which Transponder?

The **Near-Field-Antenna (A)** is required for the read/write of 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.



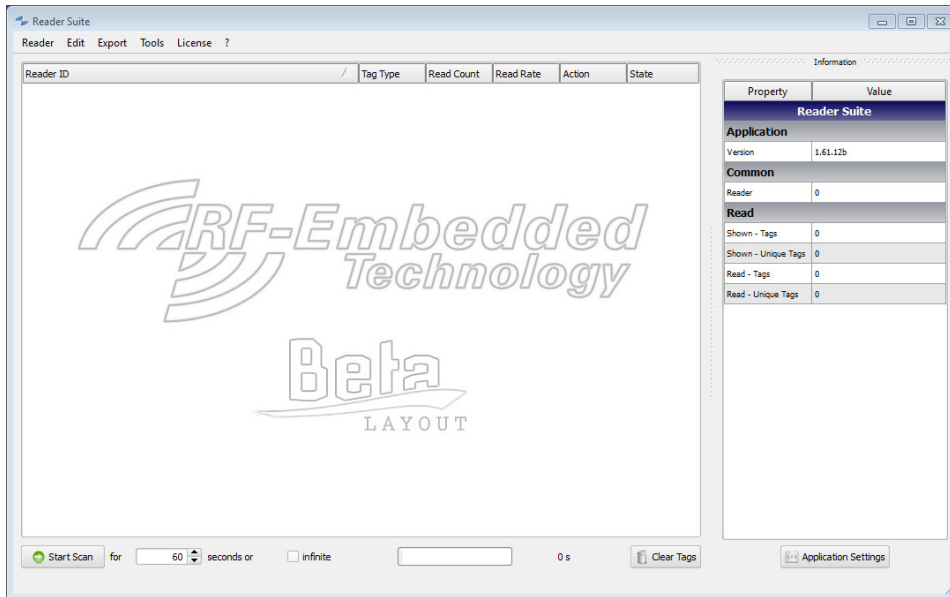
The **Mid Range Antenna (D)** is intended for the read/write of all other Transponders e. g. **Mini-PCBs of the Starter-Kit (E)**. The range covers a distance up to 1 m, dependent on the Transponder type and design.





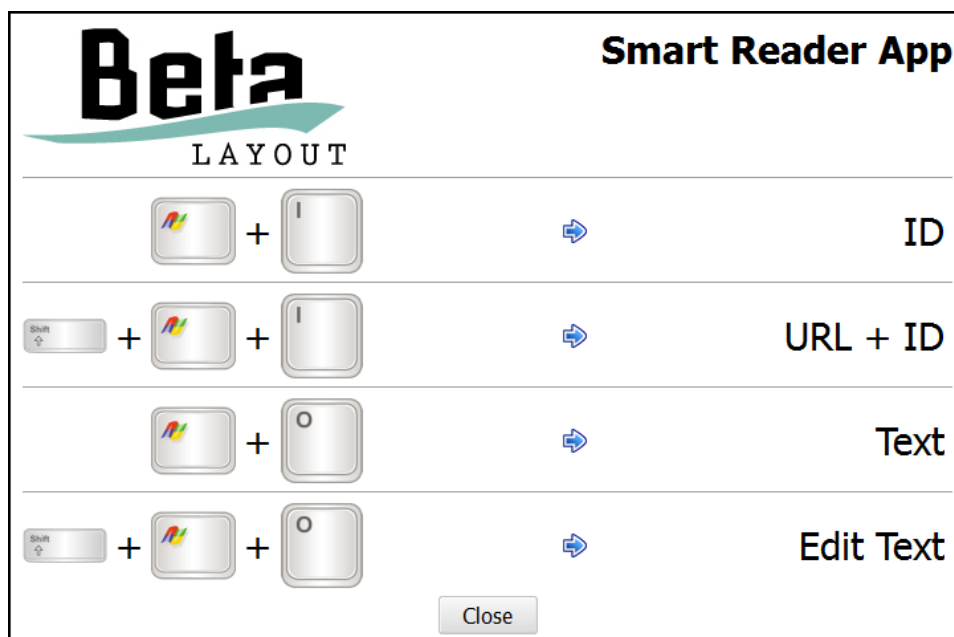
6. Which software is suitable for which application?

Reader Suite: • Configuring and Testing



Smart Reader App:

- Easy-to-use read/write of tag data
- Webseite linkage
- Import Data into text fields of any chosen Program



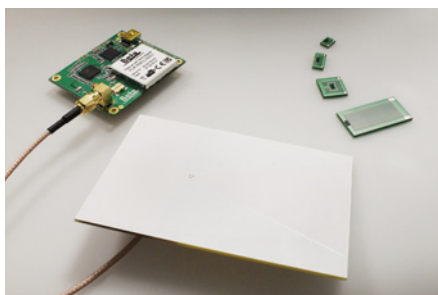
7. Setting up the RFID-Tags

The default example demonstrates how easy it is to link a Webapplication to the chip-memory.

The individual PCB production site appears, by executing the Smart Reader App and using the Shift+WIN+I key combination.

A description how to run any chosen Webapplication you will find in the Smart Reader App manual.

The default data remains on the embedded RFID-Tag until it is overwritten.



MAGIC PCB

RFID TAG

EPC	00-E2-00-60-03-12-23-9C-27-00-00-00
Hersteller	NXP
Modellnummer	UCode EPC G2XM
Speichergröße	64 Bytes

PROJEKT

Projektname	EuroBoard_LED
Ihre Kundennummer	18896
Auftragsnummer	LI-201109/13501
Auftrag angenommen am	05.09.2011
Erster Arbeitstag am	06.09.2011
Versandtermin	09.09.2011
Jobnummer	Diese Angabe ist nur für E-Service bindend. 054975
WATCH"ur"PCB®	



IHRE ANSPRECHPARTNER

Sachbearbeiter

Sabrina Helmrich



Camoperator

David Doren



BESTELLHISTORIE

Anzahl	Beschreibung	Netto EUR	Brutto EUR
8	PCB-POOL Prototyp doppelseitig	360.43	360.43
• Länge in mm: 62 • Breite in mm: 67 • Dateiname: EuroBoard_LED • Dateiformat: EAGLE • Lieferzeit: 4 Arbeitstage (AT) • Die Fräs- bzw. Ritzkostenpauschale beträgt 12.31 EUR und ist im ausgewiesenen Preis enthalten. • Basismaterial: FR4, 35µmCu, 1,6mm • Stoppleck: ja, beide Seiten identisch - Der Preis enthält die Kosten für den Stoppleck in Höhe von 17.44 EUR • Bestückungsdruck: ja, nur BS - Der Preis enthält die Kosten für den Bestückungsdruck in Höhe von 17.44 EUR • Oberfläche: Ormecon® - partielle chem. Verzinnung für superflache Pads • Min. Leiterbahnstärke / -abstand: >= 0.150mm (6mil) • Min. Bohrendurchmesser: >= 0.3mm (12mil) • Möchten Sie Überlieferungen zum halben Preis kaufen, wenn vorhanden? ja - Die Kosten hierfür betragen pro Stück 6.52 EUR und sind im hier ausgewiesenen Preis NICHT einkalkuliert. • Möchten Sie, dass wir Ihre Leiterplatte einem elektrischen Test unterziehen? nein • Free Stencil: ja • Pünktlich oder kostenlos - Liefen wir diesen Artikel nicht pünktlich, stellen wir ihn auch nicht in Rechnung!			
Warenwert PCB-POOL in EUR		360.43	360.43

EIGENE FELDER

Feldname 01:	Feldwert 01:
Feldname 02:	Feldwert 02:
Feldname 03:	Feldwert 03:
Feldname 04:	Feldwert 04:
Feldname 05:	Feldwert 05:
Feldname 06:	Feldwert 06:
Feldname 07:	Feldwert 07:
Feldname 08:	Feldwert 08:
Feldname 09:	Feldwert 09:
Feldname 10:	Feldwert 10:
Speichern	



Declaration of Conformity for USA

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Usually this is followed by the following FCC caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Sec. 15.21 Information to user:

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

Special advice for wearers of cardiac pacemakers: Although this device doesn't exceed the valid limits for electromagnetic fields you should keep a minimum distance of 20 cm between the device and your cardiac pacemaker and not stay in the immediate proximity of the device's antenna for any length of time.

The following information has to be mount outside on the housing of the host device:

Contains: FCC ID: PTSPUR500BETA