

TITLE: **EMV Test Software (SRRC) - Getting Started**

PROJECT: HF RFID Module Welljet

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1 Introduction

This document should help users to get started with the application, which can be used, to test the RFID Module Model IDT305MT.

2 Prerequisite

2.1 Hardware

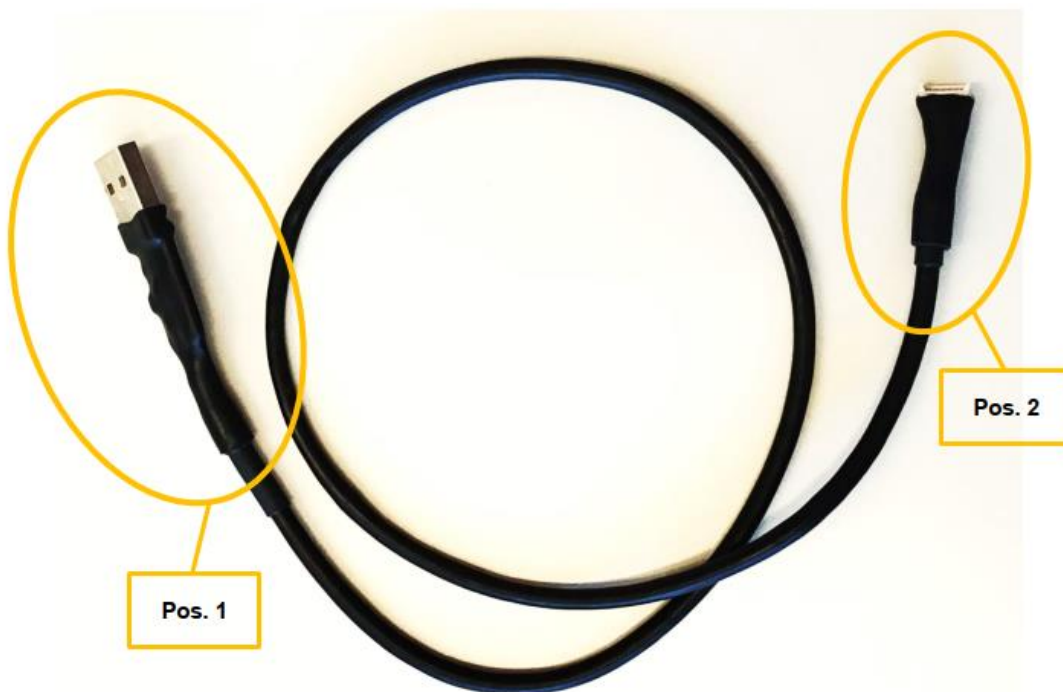
2.1.1 Module under test



Artikelnummer 191499

Frequency band (Operating) is 13.56 MHz.

2.1.2 USB-to-Serial Converter


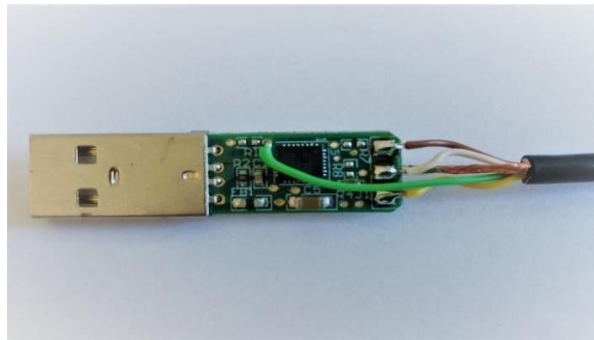
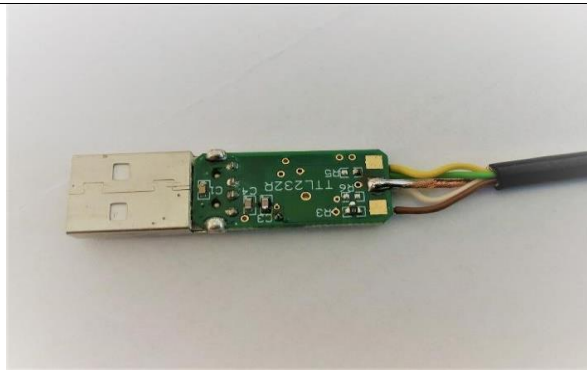


Pos. 1 USB-to-Serial Converter
 USB powered (5 V / 500 mA)
 and USB 2.0 full speed compatible

FTDI, TTL-232R-3V3-PCB

Pos. 2 Connector for 191730 RFID-Transceiver Assembly

Detailed Description

	<p>Connector for RFID Assembly Molex PicoBlade 53047-0610</p> <p>Cable 4x0.1mm² with shield</p>												
	<p>FTDI, TTL-232R-3V3-PCB</p> <table><tr><td>Green</td><td>+3V3</td><td>Via right side of R1</td></tr><tr><td>brown</td><td>RXD</td><td></td></tr><tr><td>white</td><td>TXD</td><td></td></tr><tr><td>yellow</td><td>+5V</td><td></td></tr></table>	Green	+3V3	Via right side of R1	brown	RXD		white	TXD		yellow	+5V	
Green	+3V3	Via right side of R1											
brown	RXD												
white	TXD												
yellow	+5V												
	<p>shield GND</p>												

2.2 Software

Reference to the manual Software User Manual HF Reader Testing Demo V4.0 (ISO14443A/B,MIFARE DESFire,ISO15693) Version 1.1.

2.2.1 Operating System

This demo is programmed basing on C# language and run under WINDOWS system.

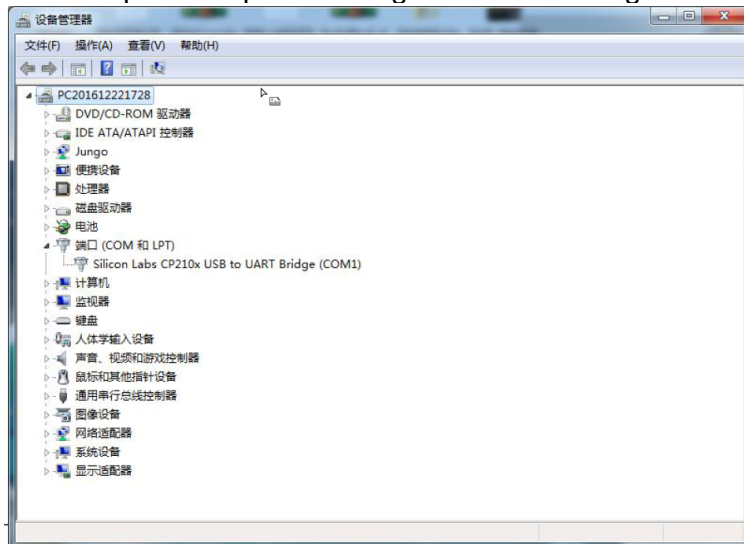
2.2.2 Test Software

The software initializes the module and can be used to send and receive messages. Created and provided by INTEGRA Biosciences AG.

2.3 Getting Started

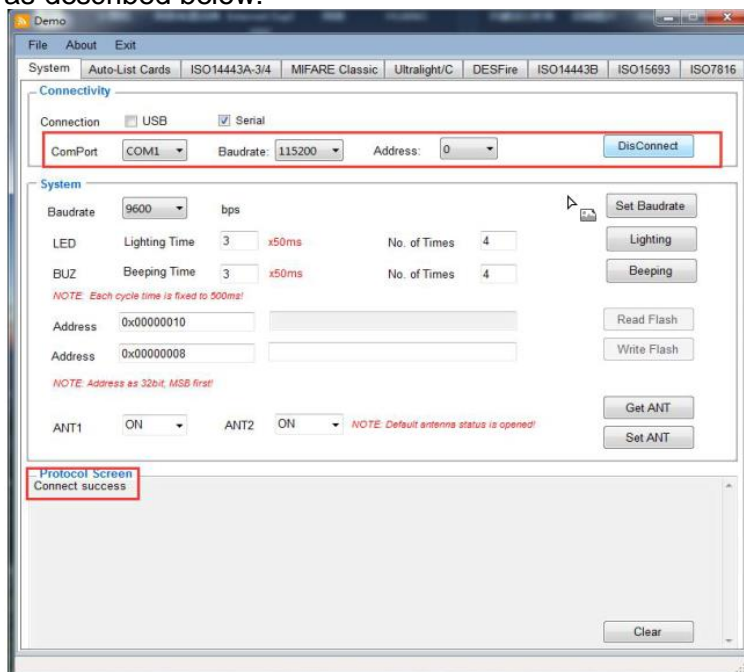
2.3.1 Connect and start module under test

1. Connect USB-to-Serial Converter with the computer.
2. Open Computer Manager--Device Manager--COM and LPT, as below:



3. Open the Test Software

Double click on the DEMO EXE file to open the demo software and enter the connection interface as described below:



Notes for Connectivity parameters:

Port number: Refer to Device Manager--COM&LPT, which on listing
 Baudrate: Default as 115200bps, available from 9600bps ~ 115200bps;
 Address: Not important

Please make sure that the above parameters are set correctly and confirm by clicking the Connect button to enter the function interface; the corresponding response will be displayed in the Log Screen field.

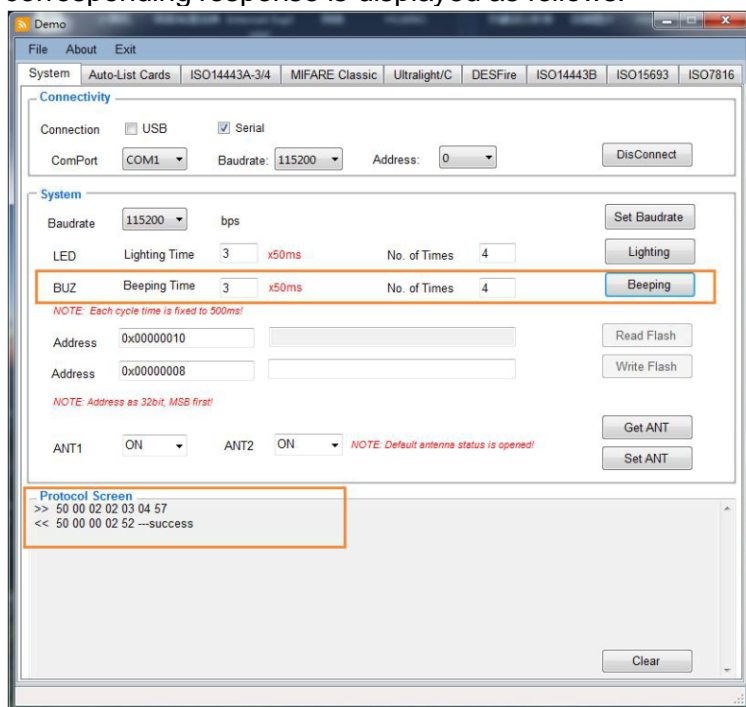
4. The next steps are different depending on which test is to be performed

2.3.2 Set Baudrate

This function can be used to provide the operation of the buzzer for a particular application. The available values include the following:

Beeping time: time length to be beeping, and the unit as 50ms
 No. Of Times: time cycle, which means how many times to be beeping during whole length

Please see below - In the box of the log screen, the corresponding command made and the corresponding response is displayed as follows:

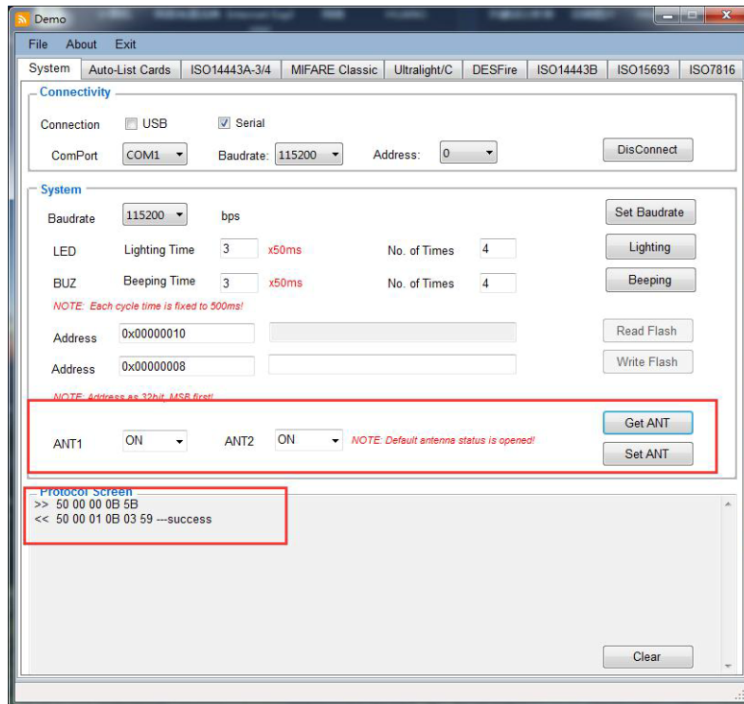


2.3.3 Set ANT

This function can be used to define which antenna is to be switched on or off if two antennas should be present.

(Note: The default status of the antenna is normally open. Please read the detailed commands for setup based on the communication protocol for different products thoroughly).

The box on the log screen displays the setup command and the correct answer.



3 Regulatory Statement

3.1 FCC statement

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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

FCC Radiation Exposure Statement

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

However, there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- FCC Radiation Exposure Statement This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

"Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment"

"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."

"This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device."

"Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) l'appareil ne doit pas produire de brouillage;
- 2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

In order to comply with FCC / ISED RF Exposure requirements, this device must be installed to provide at least 5mm separation from the human body at all times.

"Afin de se conformer aux exigences d'exposition RF FCC / ISED, cet appareil doit être installé pour fournir au moins 5mm de séparation du corps humain en tout temps."