Firmware for the ST25R3916-DISCO board

Features

- Reader / writer demonstration
  - Tag inventory, read and write
  - All NFC standard protocols supported
  - Dynamic power output
  - NFC Forum NDEF messages
- Card emulation demonstration
  - NFC Forum Type 4A Tag emulation (all tag types supported in USB mode)
  - NFC Forum NDEF messages
  - Possibility to be written by a reader or by a smartphone
- Peer to peer (P2P) demonstration
  - Initiator and target roles
  - Active and passive modes
  - NFC Forum NDEF messages
  - Message reception from a peer device (reader or smartphone)
- Automatic antenna tuning demonstration
  - Configures variable capacitances to get the best performance from the antenna
  - Fast and fully automated algorithm
- USB mode: control of the device with a PC to run the full set of ST25R3916 demonstrations
- Based on STM32Cube™ software libraries and methodologies
Description

The STSW-ST25R011 package contains all source files to compile firmware for the ST25R3916-DISCO board. The firmware includes the RFAL driver for the ST25R3916 high performance NFC universal device and EMVCo reader, running on a STM32L476 microcontroller.

The STSW-ST25R011 package is built on top of STM32Cube™ software libraries and methodology, and provides several examples of the capabilities of the ST25R3916 device.

The USB mode features allows the user to run the full set of the ST5R3916 demonstrations with a PC on which the software has been installed (using STSW-ST25R010, the PC software installer for ST25R3916-DISCO).

Revision history

Table 1. Document revision history

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Changes</th>
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</thead>
<tbody>
<tr>
<td>01-Feb-2019</td>
<td>1</td>
<td>Initial release.</td>
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<tr>
<td>22-Feb-2019</td>
<td>2</td>
<td>Updated table and picture in the cover page. Updated Description.</td>
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