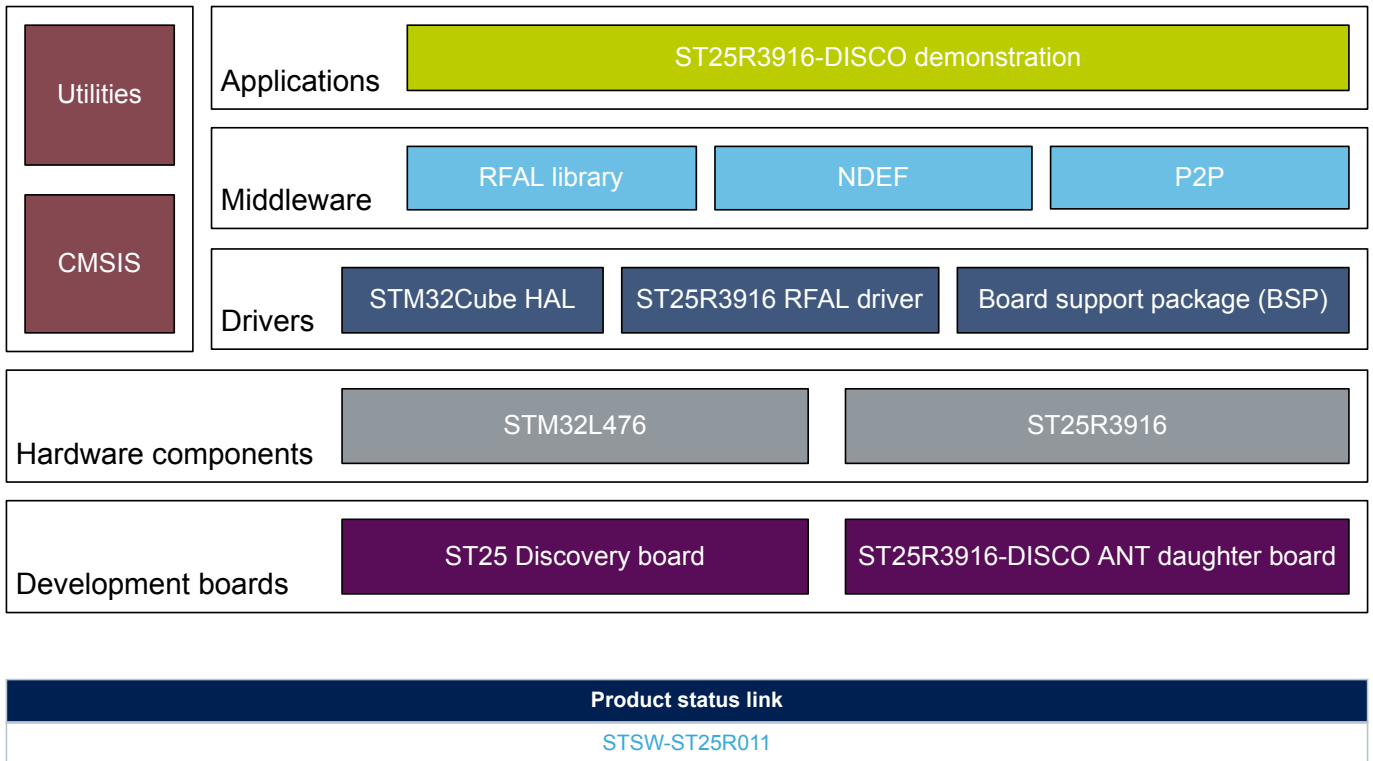


Firmware for the ST25R3916-DISCO board



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 ST25R3916 demonstrations with a PC on which the software has been installed (using [STSW-ST25R010](#), the PC software installer for ST25R3916-DISCO).

The [STSW-ST25R011](#) is available for free download from www.st.com.

Revision history

Table 1. Document revision history

Date	Version	Changes
01-Feb-2019	1	Initial release.
22-Feb-2019	2	Updated table and picture in the cover page. Updated Description .

IMPORTANT NOTICE – PLEASE READ CAREFULLY

STMicroelectronics NV and its subsidiaries (“ST”) reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST’s terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers’ products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2019 STMicroelectronics – All rights reserved