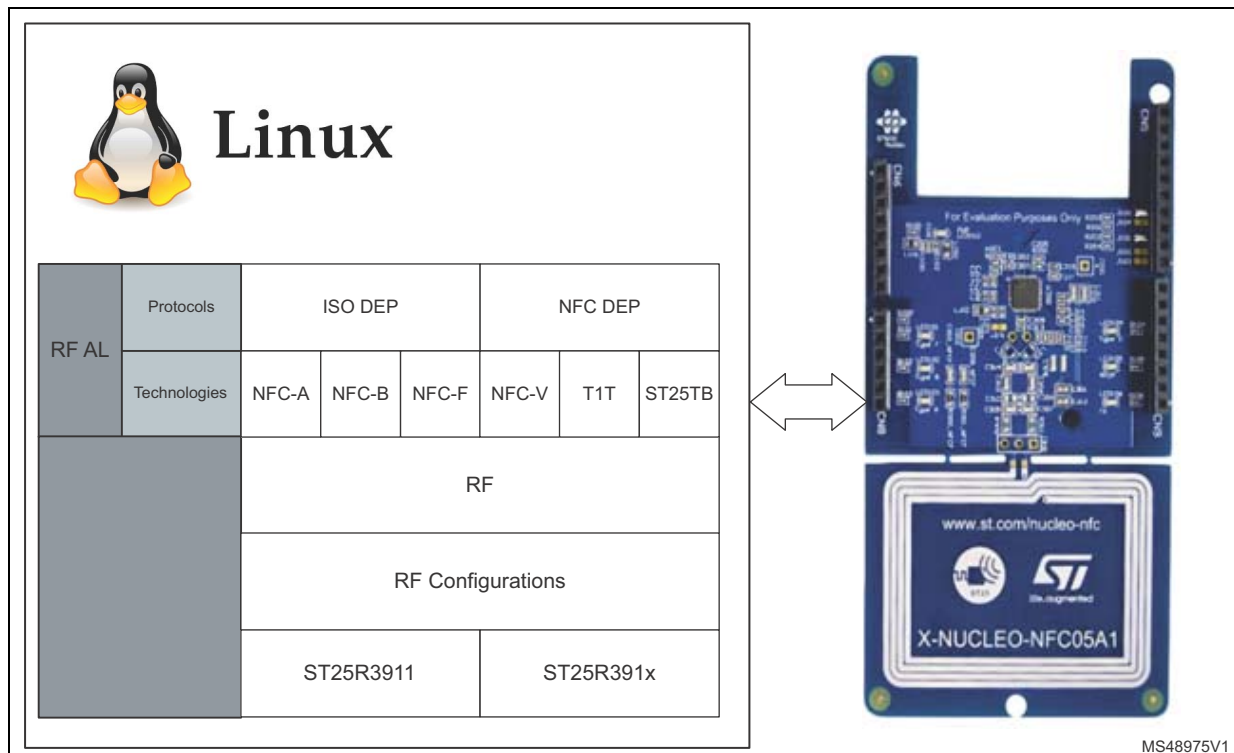


Linux[®] driver for the ST25R3911B/ST25R391x high performance NFC frontends

Data brief

Features

- Complete Linux user space driver (RF abstraction library) to build NFC enabled applications using the ST25R3911B/ST25R391x high performance NFC frontends with up to 1.4 W output power
- Linux host communication with the ST25R3911B/ST25R391x high performance NFC frontends using SPI interface
- Complete RF/NFC abstraction (RFAL) for all major technologies and higher layer protocols:
 - NFC-A (ISO14443-A)
 - NFC-B (ISO14443-B)
 - NFC-F (FeliCa)
 - NFC-V (ISO15693)
- P2P (ISO18092)
- ISO-DEP (ISO data exchange protocol, ISO14443-4)
- NFC-DEP (NFC data exchange protocol, ISO18092)
- Proprietary technologies (Kovio, B', iClass, Calypso, ...)
- Sample implementation available on the X-NUCLEO-NFC05A1 expansion board, plugged into a Raspberry Pi 3
- Sample application to detect several NFC tag types and mobile phones supporting P2P
- Free user-friendly license terms

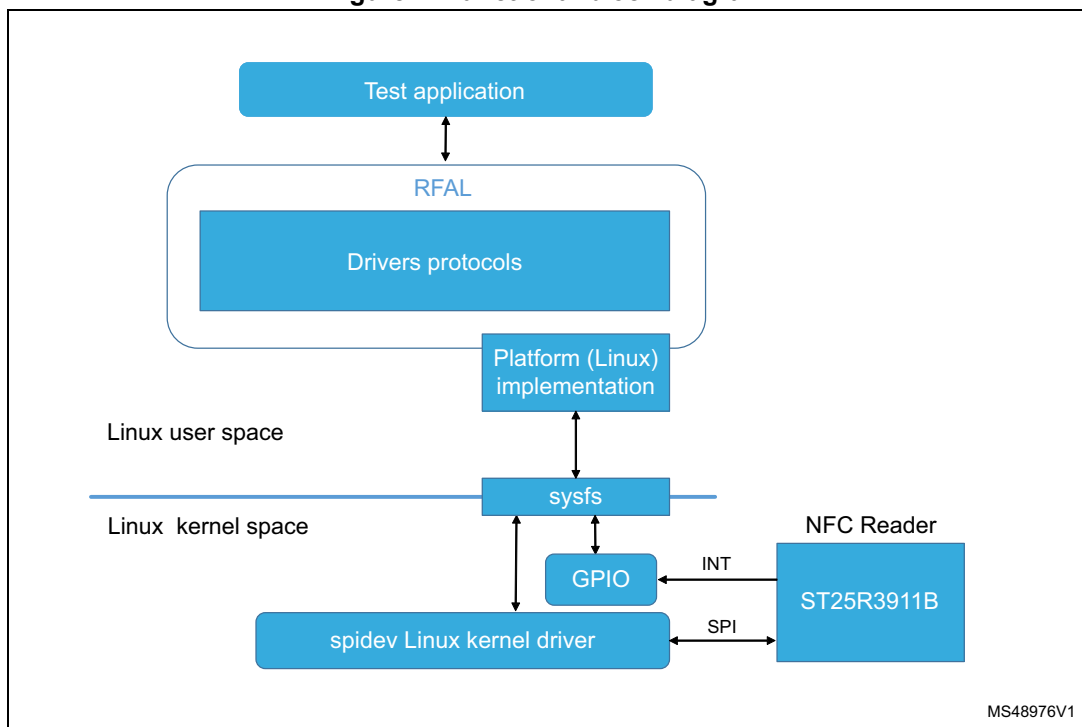


1 Description

The STSW-ST25R009 provides a complete software solution to enable fast integration of NFC functionality into Linux based systems using the ST25R3911B/ST25R391x high performance NFC frontends.

This package provides a pure user space port of the RFAL (RF Abstraction Layer) onto the Raspberry Pi 3 Linux platform operating the XNUCLEO-NFC05A1 containing the ST25R3911B high performance NFC frontend. The package contains a sample application to detect different types of NFC tags and mobile phones supporting P2P.

Figure 1. Functional block diagram



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
01-Mar-2018	1	Initial release.

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.

© 2018 STMicroelectronics – All rights reserved