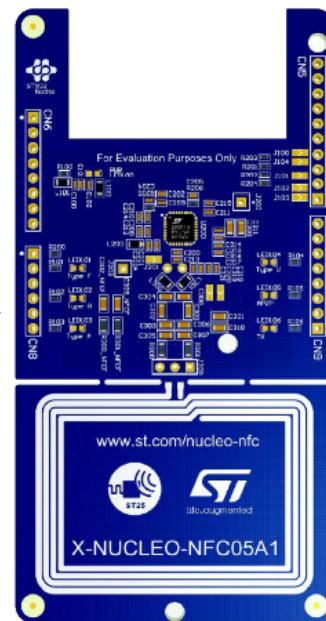
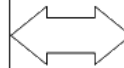
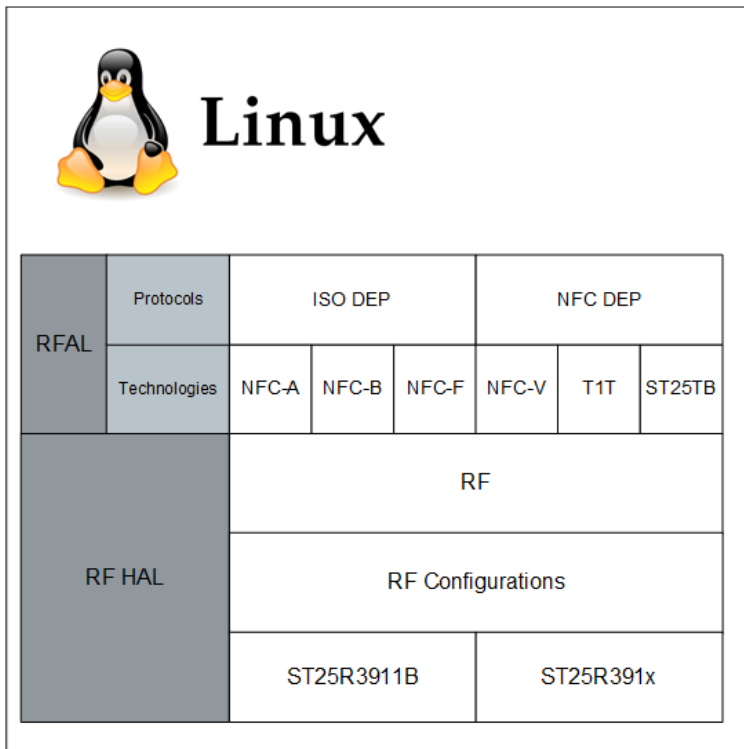


Linux® driver for the ST25R3911B and ST25R3912/14/15 high performance NFC frontends



Product status link

[STSW-ST25R009](#)

Features

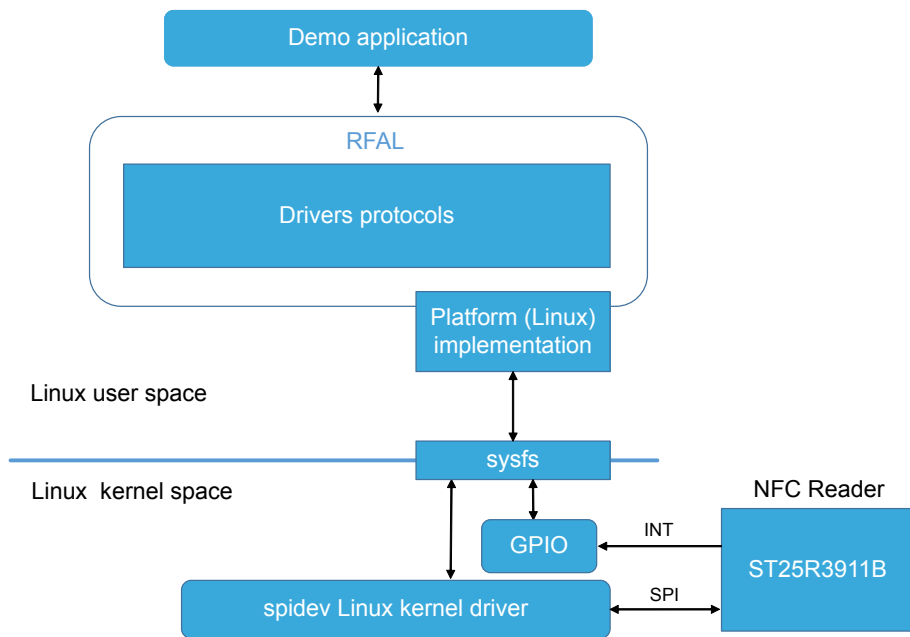
- Complete Linux user space driver (RF abstraction library) to build NFC enabled applications using the ST25R3911B/ ST25R391x high performance NFC frontends with up to 1.4 W output power
- Linux host communication with the ST25R3911B/ST25R391x high performance NFC frontends using SPI interface
- Complete 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 4
- Sample application to detect several NFC tag types and mobile phones supporting P2P
- Free user-friendly license terms

Description

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 4 Linux platform operating the X-NUCLEO-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



DT48976V1

Revision history

Table 1. Document revision history

Date	Version	Changes
01-Mar-2018	1	Initial release.
22-Mar-2023	2	Updated Features and Description .



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