

Linux® demonstration application for ST25R100/ST25R200

Linux						
RFAL	Protocols	ISO DEP		NFC DEP		
	Technologies	NFC-A	NFC-B	NFC-V	T1T	ST25TB
RF HAL		RF				
		RF configurations				
		ST25R100 / ST25R200				



For ST25R100



For ST25R200

DT74695

Product status

STSW-ST25R021

Features

- Linux® host communication with the readers through SPI
- Complete Linux user space driver (RF abstraction library) to build NFC enabled applications using the ST25R200 and ST25R100, multipurpose NFC/HF RFID readers
- Complete RF/NFC abstraction (RFAL) for all major technologies and higher layer protocols:
 - NFC-A (ISO14443-A)
 - NFC-B (ISO14443-B)
 - NFC-V (ISO15693)
 - ISO-DEP (ISO data exchange protocol, ISO14443-4)
 - Proprietary technologies (Kovio, B⁺, iClass, Calypso®, ...)
- Sample implementation available on the X-NUCLEO-NFC09A1 or X-NUCLEO-NFC10A1 expansion boards, plugged into a Raspberry Pi® 4
- Sample application to detect several NFC tag types and mobile phones
- Free, user-friendly license terms

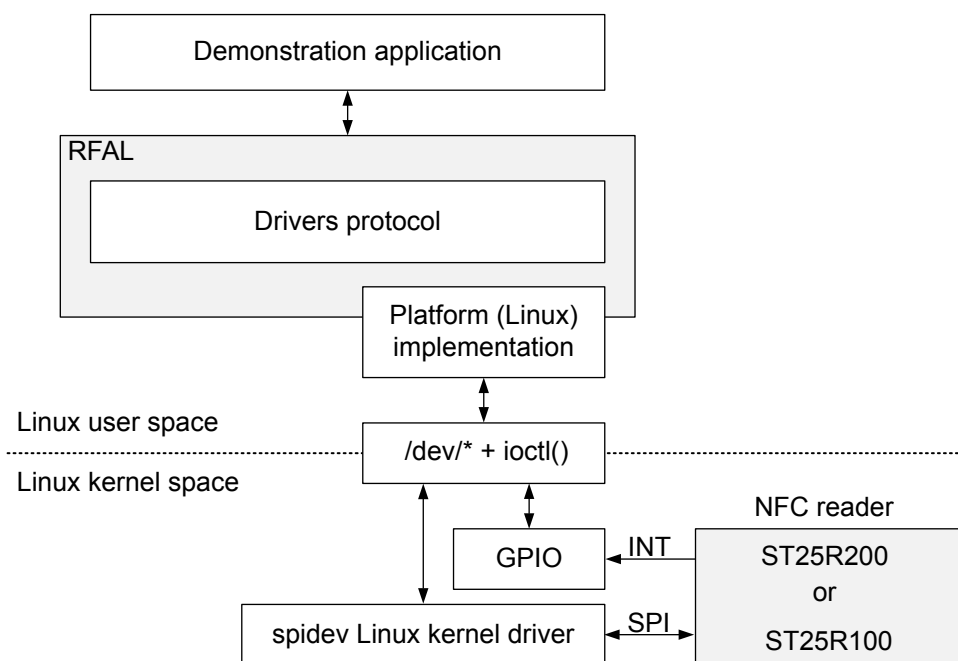
1 Description

STSW-ST25R021 provides a complete software solution to enable fast integration of NFC functionality into Linux based systems, using the ST25R200/ST25R100 multipurpose NFC/HF RFID readers.

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-NFC10A1 (containing the ST25R200) or X-NUCLEO-NFC09A1 (containing the ST25R100) boards. The package also contains a sample application to detect different types of NFC tags and mobile phones.

STSW-ST25R021 is available for free download from www.st.com.

Figure 1. Functional block diagram



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2 License

STSW-ST25R021 is delivered under the SLA0051 (MyLiberty) software license agreement.

Revision history

Table 1. Document revision history

Date	Version	Changes
03-Feb-2025	1	Initial release.



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