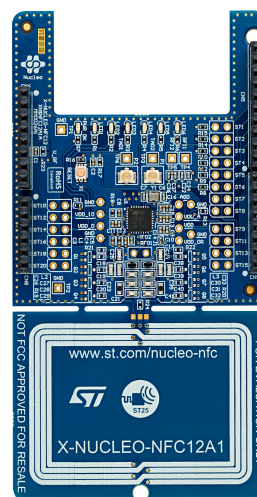
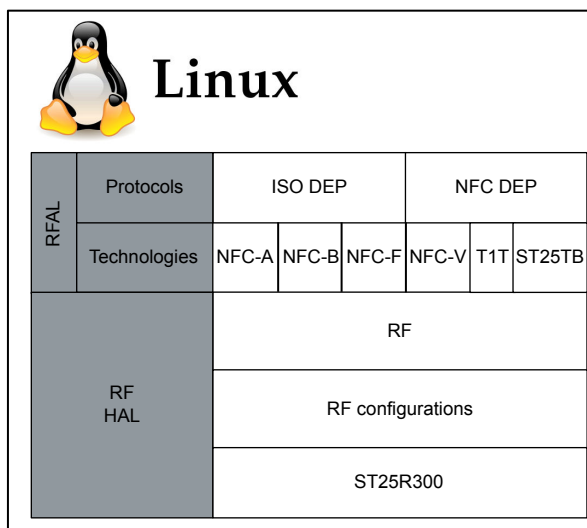


Linux® demonstration application for ST25R300



ST25R300

DT77732

Product status

STSW-ST25R024

Features

- Linux® host communication with the readers through SPI
- Complete Linux user space driver (RF abstraction library) to build NFC enabled applications using the ST25R300 device, 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-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-NFC12A1 expansion board, plugged into a Raspberry Pi® 4
- Sample application to detect several NFC tag types and mobile phones
- Free, user-friendly license terms

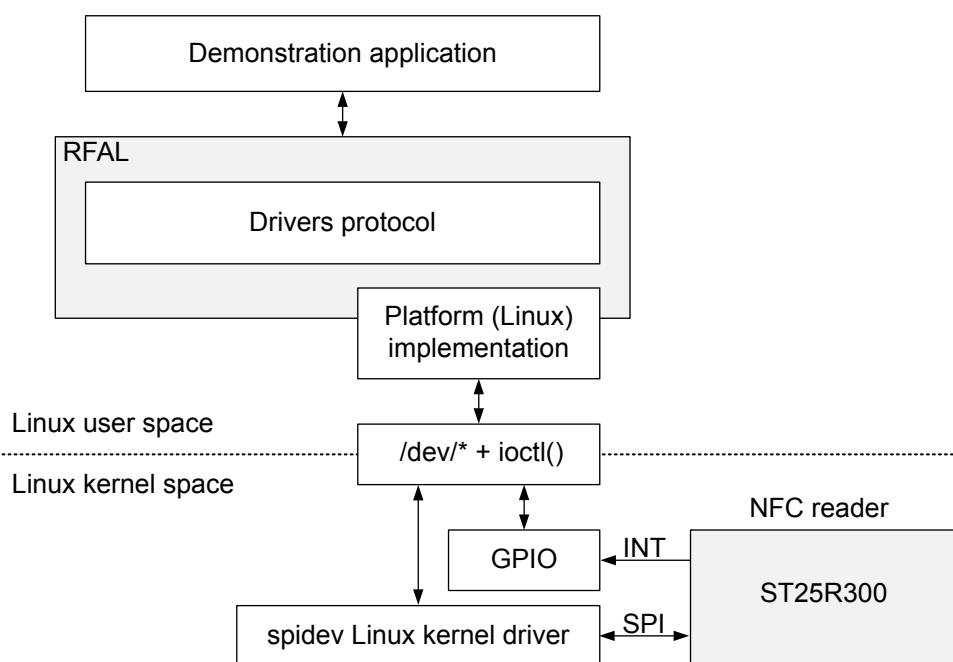
1 Description

STSW-ST25R024 provides a complete software solution to enable fast integration of NFC functionality into Linux based systems, using the multipurpose NFC/HF RFID reader.

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-NFC12A1 (containing the ST25R300) board. The package also contains a sample application to detect different types of NFC tags and mobile phones.

STSW-ST25R024 is available for free download from www.st.com.

Figure 1. Functional block diagram



DT77733



2 License

STSW-ST25R024 is delivered under the SLA0051 (MyLiberty) software license agreement.

Revision history

Table 1. Document revision history

Date	Version	Changes
05-Jun-2025	1	Initial release.



Contents

1	Description	2
2	License.....	3
	Revision history	4
	List of tables	6
	List of figures.....	7



List of tables

Table 1. Document revision history 4

List of figures

Figure 1.	Functional block diagram	2
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