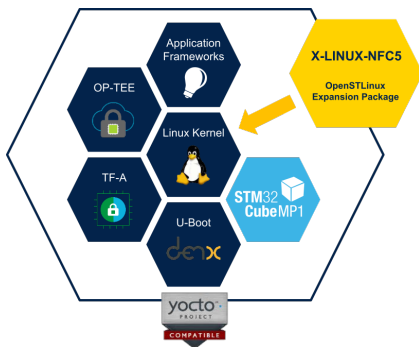


STM32 MPU OpenSTLinux software expansion package for RFAL-based NFC applications



Features

- Linux user space RFAL driver to run NFC-based applications
- Linux host communications with [ST25R3911B](#)
- RFAL library for all NFC technology type cards
- Sample application available for [X-NUCLEO-NFC05A1](#) NFC card reader expansion board to detect NFC type tag
- Ready-to-use binary image (to be flashed on the [STM32MP157F-DK2](#) microSD) and source code for development on Yocto-based OpenSTLinux platform
- Meta layer for integration with ST Yocto Distribution Package

Description

X-LINUX-NFC5 is an STM32 MPU OpenSTLinux software expansion package that runs on the ARM® Cortex® A7-based core of the STM32MP1 microprocessor on the STM32MP157F-DK2 discovery kit to demonstrate RFAL-based NFC applications.

The X-LINUX-NFC5 includes sample NFC applications and Radio Frequency Abstraction Library (RFAL) that provides a common interface to make the upper software layers independent of the lower level devices.

This package can be used to develop and evaluate NFC-based applications for different NFC tag type technologies using the RFAL library.

The software package supports all the [ST25R3911B](#) lower-layer protocols and some higher layer protocols to abstract RF communication.

An example application is also part of this software package for evaluation. The source can be ported to any Linux platform.

Product summary	
STM32 MPU OpenSTLinux software expansion package for RFAL-based NFC applications	X-LINUX-NFC5
NFC card reader expansion board based on ST25R3911B for STM32 and STM8 Nucleos	X-NUCLEO-NFC05A1
High performance HF reader/NFC initiator with 1.4 W supporting VHBR and AAT	ST25R3911B
Discovery kit with STM32MP157F MPU	STM32MP157F-DK2
Applications	Edge Processing Contactless Communication NFC/RFID

Revision history

Table 1. Document revision history

Date	Version	Changes
19-Oct-2020	1	Initial release.
11-Nov-2020	2	Updated cover page image.
18-Nov-2020	3	Updated cover page features.
05-Jul-2021	4	Added STM32MP157F-DK2 discovery kit compatibility information.

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