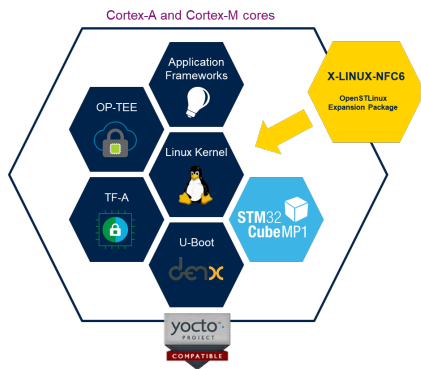# STM32 MPU OpenSTLinux software expansion package for RFAL-based NFC applications

Features

- Linux user space RFAL driver to run NFC-based applications
- Linux host communications with ST25R3916
- RFAL library for all NFC technology type cards
- Sample application available for X-NUCLEO-NFC06A1 NFC card reader expansion board to detect NFC type tag
- Ready-to-use binary image (to be flashed on the STM32MP157F-DK2 micro-SD) and source code for development on OpenSTLinux platform
- Meta layer for integration with ST Yocto distribution package

Description

X-LINUX-NFC6 is an STM32 MPU OpenSTLinux software expansion package that runs on the dual ARM® Cortex® A7-based core of the STM32MP1 Series microprocessor on the STM32MP157F-DK2 discovery kit to demonstrate RFAL-based NFC applications.

The X-LINUX-NFC6 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 ST25R3916 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-NFC6
NFC card reader expansion board based on ST25R3916 for STM32 and STM8 Nucleo Boards	X-NUCLEO-NFC06A1
High performance NFC universal device and EMVCo reader	ST25R3916
Discovery kit with STM32MP157F MPU	STM32MP157F-DK2
Applications	Edge Processing Contactless Communication NFC/RFID

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For further information contact your local STMicroelectronics sales office.

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Revision history

Table 1. Document revision history

Date	Revision	Changes
02-Nov-2021	1	Initial release.

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