

## ST25 embedded NFC library for ST25 reader and tag products

### Features

- Collection of middleware to build advanced NFC enabled applications such as:
  - NFC poller
  - NDEF reader writer
  - FreeRTOS poller
  - Proprietary active peer-to-peer
- Support for ST25 tag and dynamic tag features
- ST25 fast transfer mode (for ST25 readers and dynamic tags)
- Available for all ST25R NFC readers
- Easy portability across different platforms (MCUs/RTOSs/OSs)
- Free, user-friendly license terms

Product status
STSW-ST25R-LIB

### Description

The ST25 embedded NFC library ([STSW-ST25R-LIB](#)) provides a collection of middleware and their associated examples that can be reused when developing an application with ST25R reader and ST25 dynamic tag products.

The available packages for ST25R NFC readers are STSW-ST25RLIB001 (ST25R3911B series), STSW-ST25RLIB002 (ST25R3916/ST25R3916B series), STSW-ST25RLIB005 (ST25R300/ST25R500 series), STSW-ST25RLIB004 (ST25R100/ST25R200 series), STSW-ST25RLIB003 (ST25R95).

Examples run on the NUCLEO-STM32L476RG with the following ST25R expansion boards: X-NUCLEO-NFC05A1 for ST25R3911B, X-NUCLEO-NFC06A1 for ST25R3916, X-NUCLEO-NFC08A1 for ST25R3916B, X-NUCLEO-NFC09A1 for ST25R100, X-NUCLEO-NFC10A1 for ST25R200, X-NUCLEO-NFC12A1 for ST25R300, and X-NUCLEO-NFC03A1 for ST25R95.

The ST25FTM examples also run on the NUCLEO-STM32L476RG with the X-NUCLEO-NFC04A1 and X-NUCLEO-NFC07A1 expansion boards for ST25DV-I2C dynamic tag. The associated firmware is provided in all the STSW-ST25R-LIB packages.

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## 1 General information

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The software runs on STM32 microcontrollers, based on Arm® cores.

*Note:* Arm is a registered trademark of Arm Limited (or its subsidiaries) in the US and/or elsewhere.



### 1.1 Ordering information

Software and documentation are available on [www.st.com](http://www.st.com).

## 2 License scheme

The STSW-ST25R-LIB packages are delivered under the MyLiberty software license agreement (SLA0052). The software components provided in this package come with different license schemes, as shown in the following table:

**Table 1. Software component license agreements**

Software component	Owner	License
Project applications	STMicroelectronics	Proprietary
RFAL middleware	STMicroelectronics	Proprietary
NDEF middleware	STMicroelectronics	Proprietary
ST25TAGS middleware	STMicroelectronics	Proprietary
ST25FTM middleware	STMicroelectronics	Proprietary
ST25R common	STMicroelectronics	Proprietary
Board support package (BSP)	STMicroelectronics	<a href="#">BSD-3-Clause</a>
FreeRTOS middleware	Amazon.com, Inc.	<a href="#">MIT open source</a>
HAL STM32L4	STMicroelectronics	<a href="#">BSD-3-Clause</a>
STM32L4xx CMSIS	STMicroelectronics	<a href="#">Apache License 2.0</a>
Cortex <sup>®</sup> -M CMSIS	Arm Limited	<a href="#">Apache License 2.0</a>

## Revision history

**Table 2. Document revision history**

Date	Version	Changes
31-Jul-2020	1	Initial release.
11-Nov-2020	2	Updated: <ul style="list-style-type: none"><li>• <a href="#">Section Features</a></li><li>• <a href="#">Section Description</a></li><li>• <a href="#">Table 1. Software component license agreements</a></li></ul>
12-Nov-2024	3	Updated: <ul style="list-style-type: none"><li>• <a href="#">Section Description</a></li></ul>
08-Apr-2025	4	Updated RPNs in <a href="#">Section Description</a>

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