



Zephyr® RTOS application for ST25 readers

Features

Product status
STSW-ST25R-ZEP

- Integrates as a module in Zephyr® containing:
 - ST25R driver and NFC stack
 - ST25 reader shield definition
 - a ready-to-build demo application
- Host communication with the ST25 reader through SPI or I²C, depending on the device.
- Support major NFC technologies and higher layer NFC protocols.
- Support of MCU boards with Arduino® UNO R3 connector such as STM32 Nucleo-64.
- Sample application to detect several NFC tag types and mobile phones.
- Free, user-friendly license terms.

1 Description

STSW-ST25R-ZEP offers a complete software solution. It helps developers quickly add NFC functionality to systems that are based on Zephyr® and that use an ST25 reader. This package includes a port of the RF abstraction layer (RFAL) for ST25 reader expansion boards such as X-NUCLEO-NFC10A1, X-NUCLEO-NFC12A1 or ST25RN300-EVAL. Additionally, it includes a sample application that detects various NFC tags and mobile phones.

The available packages for ST25R NFC readers are the following:

- STSW-ST25RZEP001 (ST25R200 and derivatives),
- STSW-ST25RZEP002 (ST25R300/ST25R500 and derivatives),
- STSW-ST25RZEP003 (ST25RN300).

Those packages are available as a free download from www.st.com.



2 License

STSW-ST25R-ZEP is delivered under the SLA0051 (MyLiberty) software license agreement.

Revision history

Table 1. Document revision history

Date	Version	Changes
31-Jul-2026	1	Initial release.



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