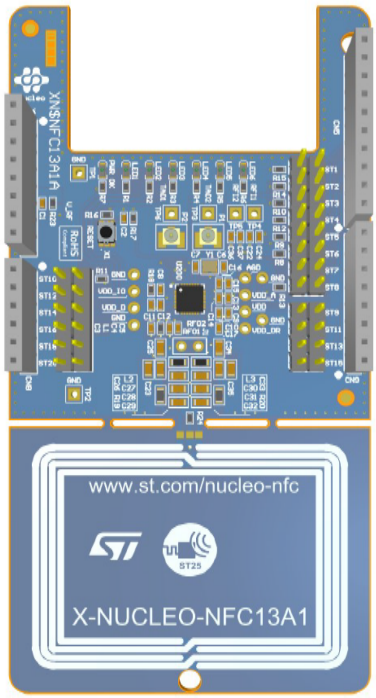
X-NUCLEO-NFC13A1

Data brief

NFC card reader expansion board based on ST25R210 for STM32 nucleos



Features

- On-board NFC card reader and host card emulation IC: ST25R210
- NFC Forum NFC-A, NFC-B, NFC-F, and NFC-V poller
- NFC Forum NFC-A, NFC-F listener
- 13.56 MHz inductive antenna, 47 x 34 mm, four turns, etched on PCB and associated tuning circuit
- Compatible with STM32 Nucleo boards for easy and quick development
- Six general-purpose LEDs
- Equipped with Arduino® UNO R3 connector
- Free comprehensive development firmware library compatible with STM32Cube and samples for ST25R210
- FCC certified
- RoHS and WEEE compliant

Description

The X-NUCLEO-NFC13A1 NFC card reader expansion board is based on the ST25R210 device.

The expansion board is configured to support all five NFC Forum tag types in reader mode.

The ST25R210 manages frame coding and decoding in reader mode for standard applications.

It supports ISO/IEC 14443 type A/B and ISO/IEC 15693 (single subcarrier only) and ISO/IEC 18092 communication protocols as well as the detection, reading and writing of NFC Forum type 1, 2, 3, 4, and 5 tags.

Integrated HF reader/NFC initiator/NFC target IC with an antenna etched on the PCB and the related tuning circuit.

Product summary	
NFC card reader expansion board based on ST25R210 for STM32 nucleos	X-NUCLEO-NFC13A1
NFC reader for industrial and consumer applications	ST25R210-ANET
High-performance HF reader/NFC initiator IC software expansion for STM32Cube	X-CUBE-NFC13
Applications	Wireless connectivity

Revision history

Table 1. **Document revision history**

Date	Revision	Changes
11-Mar-2026	1	Initial release.

IMPORTANT NOTICE – READ CAREFULLY

STMicroelectronics NV and its subsidiaries (“ST”) reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice.

In the event of any conflict between the provisions of this document and the provisions of any contractual arrangement in force between the purchasers and ST, the provisions of such contractual arrangement shall prevail.

The purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST’s terms and conditions of sale in place at the time of order acknowledgment.

The purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of the purchasers’ products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

If the purchasers identify an ST product that meets their functional and performance requirements but that is not designated for the purchasers' market segment, the purchasers shall contact ST for more information.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, refer to www.st.com/trademarks. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.