

# ST25 NFC READER+TAG SOLUTION



Enhance user experience and gain insights into consumer habits



Implementing ST25 NFC Reader+Tag solution offers innovative ways of engaging users and provides new functionalities for multiple applications.

As consumer demand for innovative products and shopping experiences grows, businesses can leverage smart devices and digital interaction to distinguish their products and gain insights into customer preferences through a comprehensive approach.

For manufacturers, using NFC technology in supply chain flows results in an increase in process efficiency and optimized costs.

To answer these market needs, ST provides ST25 NFC readers and tags, which can be implemented together to design an advanced, integrated Reader+Tag NFC solution. ST offers its support and expertise to enable a robust and secure integration.

## KEY USE CASES

- Accessory recognition
- Brand recognition
- Fast pairing upon tap
- Device authentication
- Parameter setting
- Tamper detection
- In-box programming

## KEY APPLICATIONS

- Healthcare & fitness
- Beauty & self care
- Home appliances
- Gaming & education
- Smart furniture
- Home automation
- Industrial

### ST25 NFC readers

The ST25R series offers a wide range of NFC readers that fit the requirements of many applications in terms of power consumption, output power, communication protocols, and detection sensitivity. A dynamic power output and wake-up modes ensure reliable and efficient functioning in all environments.

### ST25 NFC tags

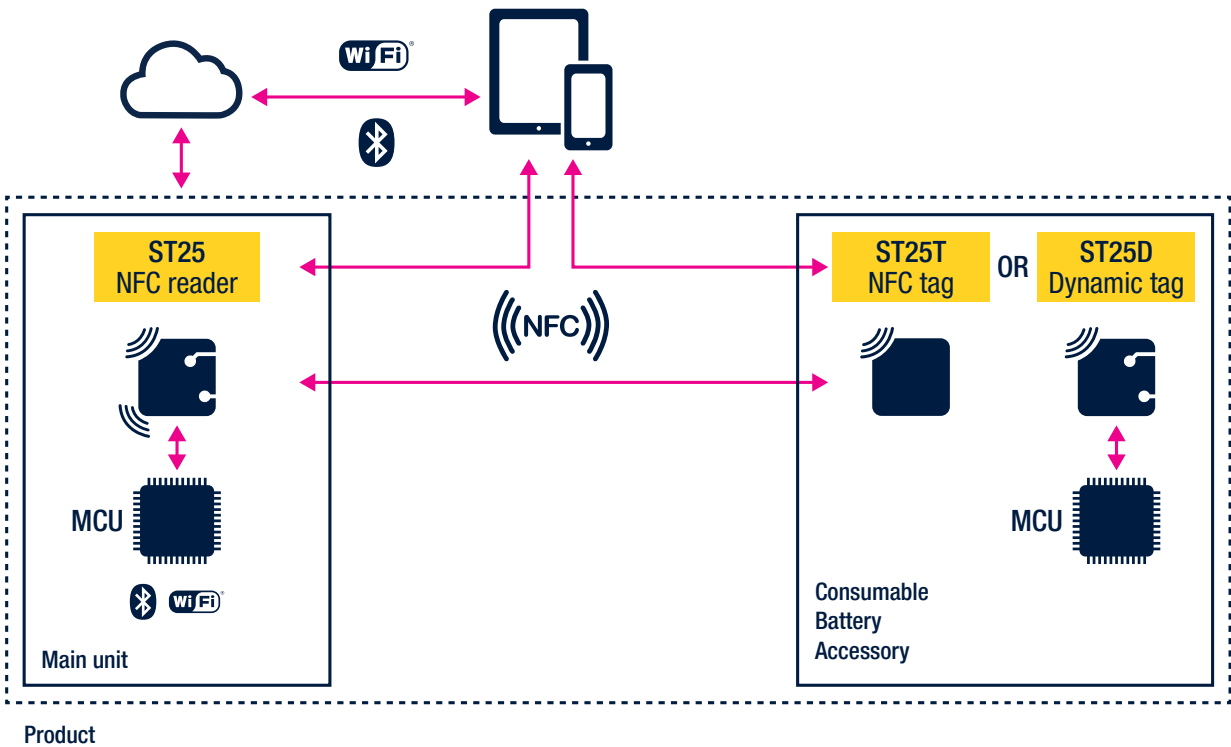
ST25T tags offer a rich feature set including a kill & untraceable mode, tamper detection, the TruST25™ digital signature, and password protection, thereby improving security in your end product. The ST25D dynamic tags come with an energy harvesting system, as well as an I2C interface, extending end-product connectivity features.

### Development

ST's NFC solutions come with a comprehensive set of development and support tools. The ST25 ecosystem provides evaluation boards, software libraries, as well as a design tool for NFC antennas. This enables rapid prototyping and boosts product design efficiency and speed.

### Connectivity with NFC Reader+Tag

Enable a whole new set of use cases and connect your product to the world. Communicate with smart devices, upload data to the cloud or integrate it into WiFi networks.



### Suitable readers and tags for Reader+Tag solution

Part	Type	Protocols	Special Features
ST25R100	NFC Reader	ISO14443 A/B, ISO15693	0.8W, Reader/Writer mode, low power card detection, dynamic power output
ST25R200	NFC Reader	ISO14443 A/B, ISO15693	1.2W, Reader/Writer mode, low power card detection, dynamic power output, noise suppression receiver
ST25TN	NFC Tag	ISO14443 A, NFC Forum Type 2	Augmented NDEF, Unique Tap Code, kill mode, TruST25™ digital signature
ST25TV	NFC Tag	ISO15693, NFC Forum Type 5	Tamper detection, Kill & untraceable mode, TruST25™ digital signature, Augmented NDEF
ST25DV-I2C	NFC Dynamic tag	ISO15693, NFC Forum Type 5	I2C 1MHz, 64kb memory, energy harvesting, fast transfer mode, interrupt, low power modes

Note: These readers and tags are recommended for the Reader+Tag combined solution. More ST25 readers and tags are also available in ST25 product portfolio.



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