

SUMMARY

- 1. Ecosystem update SW
- 2. Video/Animation
- 3-4. Events
- 5. Event to come

- 6-7. Press Release
- 8. New supporting material

ST25 FAMILY PRODUCTS ON <u>WWW.ST.COM/ST25</u>



ST25T NFC / RFID tags

Ideal for wireless pairing (Bluetooth or WI-FI) and product identification, feature counters, data protection (password) and able to wake-up the Host chip thanks to a general purpose output.



ST25D Dynamic NFC tags

Featuring a reliable EEPROM memory with data protection (password), an I2C interface to connect to a MCU and a RFID/NFC tag interface, enabling multiple use-cases for Consumer, Industrial and IoT applications.



ST25R NFC / UHF RFID readers

Which support multiple NFC protocols in Reader or Peer-to-Peer modes, accessed via SPI interface and able to cope with the most challenging environments thanks to their high RF performance and advanced features.



Ecosystem Update - SW

Status: Available



STSW-ST25RFAL001

STSW-ST25RFAL001 is the implementation of the RF/NFC abstraction layer (RFAL) for the ST25R3911B. The RFAL simplifies the development of applications, provides a common interface and is available for all ST25R devices.

Click to see more →

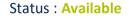
Status: Available



STSW-ST25RFAL003

STSW-ST25RFAL003 is the implementation of the RF/NFC abstraction layer (RFAL) for the ST25R95. The RFAL simplifies the development of applications, provides a common interface and is available for all ST25R devices.

Click to see more >





STSW-ST25RFAL002

STSW-ST25RFAL002 is the implementation of the RF/NFC abstraction layer (RFAL) for the ST25R3916. The RFAL simplifies the development of applications, provides a common interface and is available for all ST25R devices.

Click to see more →



Status: Available



STSW-ST25RU001

This software comprises of the ST25RU3993 GUI which is a PC based application for Windows® platform. Version 1.7.0 comes with significant performance update regarding tag read speed and read stability: now hitting 340 tags/second read rate.

Click to see more ->







New Videos/Animations



IoT World 2019 NFC/RFID Solutions: TruST25™, the ability to control nodes and their access to Internet





Events



ST was present for the 4th edition of IoT world at Santa Clara from the 9th to 13th of May. There were great professionnels on IoT and connected system. During the show you can assist to conference, walk throught stands and get Professionals meetings with futur prospects.





ST25 solutions for IoT deployment

This year, ST had a pod dedicated to NFC. Several demos were presented:

- STEVAL-SMARTAG1 combines NFC Dynamic Tag & STM32Lox1 MCU
- Reader + Tag powered by ST25TV02K
- High performance NFC/RFID Readers ST25R3916

That was the opportunity for ST25 to communicate full solutions available for IoT deployment. ST also sponsored IoT world Hackathon 2019 and provided STEVAL-SMARTAG1 as Hardware/Software solutions to be developed to solve the topic presented: the water. The IoT World Hackathon is part of the IoT World Developer Conference, where hackers connect with IoT Innovation.



Smart Cities India

edition of Smart Cities India, in New Delhi from 22nd of May to 24th. The Smart Cities India exposition organise 3-days event which witness collaboration, discussions and showcase of innovative products, solutions and services which develop efficient, sustainable and liveable cities.





Highlight on solutions for Smart Cities

For this 5th edition f Smart Cities in India, ST showed its technological prowess in the Smart City , innovative and diversified solutions to make cities more sustainable, safe & citizen-friendly.

Through over 30 technologies for Automotive, Industrial and Artificial Intelligence, ST had exposed the NFC elock demo and ST25DV-PWM + STSPIN220 motor control through NFC demo.

The demo was attractive and several queries were made by clients. ST experts got multiple opportunities for B2B and B2C meetings and gave visitors comprehensive insight into our latest technology, products, services and solutions. The booth received a special visit from directors from the Ministry of Housing & Urban Affairs.





Events

sps ipc drives

ITALIA

9th edition Industrial Automation and Digitalisation Parma, 28-30 May 2019

ST was at the core of Smart Industry at SPS in Parma Italy from May 28 to 30. SPS IPC Drives Italia is one of the major international exhibitions for electric automation technology. It covers not only all components, but also systems. it is one of the few exhibitions that offer integrated automation solutions



ST goes to Embedded
Technology & IoT
Technology west from
June 13th to 14th at Osaka.
Embedded Technology
West is a collective
exhibit of the advanced
embedded technologies
that are evolving right
now. Its sister show, IoT
Technology West, covers
the leading edge of
"connected" technology.





Demos focusing on factory automation

ST displayed its latest solutions in the field of factory automation and motion control. The company's objective is to become a world leader in Industrial. SPS Italy is the reference event for intelligent, digital and flexible industry. ST25 product family was represented by the ST25DV-PWM in combination with the STSPIN220 demonstrating how to drive stepper motors thanks to 256 steps for maximum accuracy with a simple and contactless RFID/NFC tag.

Automation, digital, robotics, mechatronics were the successful ingredients of the six exhibition pavilions animated by over 850 exhibitors.





ST25R3916 products highlighted

All along the show, few demos were showed to visitors. The first was Industrial Qi charger for security and safe: this demo prototype shows how quickly the handshake between wireless charging transmitter and receiver is established thanks to NFC, compared to Oi's In-band authentication.

The second demo was about NFC Reader ST25R3916 with the ST25R3916-DISCO: it consists to have ultimately a better RF performance ever to been in its communication distance with an ability to Card Emulation mode communicating with a mobile phone and can be easily integrated STM32 ecosystem using FW source code.



Events: To Come Soon!

JULY AUG

International IoT Exhibition, Shenzhen, **30- 01**st

- ST Techno Day France, Paris, 10th
- ST Developers Conference, Santa Clara, 12th
- Smartcard Expo, New Delhi, 25-26th
- Electronica India, Bangalore, 25-27th

SEPT

OCT

IoT Korea Exhibiton & International Conference, Korea, 23-25th





ST25 news: Blog Post

Do You Speak NFC? New Online Courses to Design for Readers and Tags

05/02/19





Our NFC teams just released a series of massive open online courses (MOOC) that will teach engineers and enthusiasts how to design for readers and tags. NFC brought great innovations to products that had no electronics until now, as a wine company that's putting our Type-5 NFC tag on its bottles can testify. And since ST was among the first to pass the Tag Certification Program and offer Type-5 devices, engineers know that the course relies on fast and feature-rich

devices engineers know that the course relies on fast and feature-rich devices that will greatly complement their project. Just ask TapNLink, a company that connects to a microcontroller through NFC and that got rave reviews thanks to its solution's incredible speed. Furthermore, as NFC continues to gain more grounds in many other markets, such as the automotive industry, as we recently explored in a Q&A, understanding how to leverage near-field communication is absolutely crucial.







ST25 news: Press Release

STMicroelectronics joins Car Connectivity Consortium 05/24/19

STMicroelectronics (NYSE: STM), a global semiconductor leader serving customers across the spectrum of electronics applications, today announced having joined the Car Connectivity Consortium (CCC), a cross-industry organization advancing global technologies for smartphone-tocar connectivity solutions.

"Smartphones have become productivity and convenience extensions of busy professionals and consumers whether"

ST's technology portfolio features many segments well suited to automotive connectivity and the aims of the CCC, including ST25 NFC readers, ST33 Secure Elements, STA12 Accordo infotainment processors, STA13 Telemaco vehicle processors, and Stellar vehicle gateway/domain microcontrollers

Already ST is a top player in the expanding market for NFC technology as a digital key and in its use as a conduit for Bluetooth and Wi-Fi pairing. In addition, ST offers a range of technologies to address wireless charging, including authentication and foreign object detection.

"Smartphones have become productivity and convenience extensions of busy professionals and consumers—whether as voice-activated personal assistants, personal wallets, or as navigators—and they are a natural and safe appliance to ID and unlock doors for the owner, adjust the seat, tune the radio, and personalize the car for their comfort and said Joel Huloux. Director Microcontrollers and Digital ICs Group, STMicroelectronics.

"As a leading long-time, trusted supplier to the top players in both the smartphone and automotive industries, ST shares an interest in the mission of the CCC, which aims to make it possible and hassle-free to simply connect and ride and we've joined the group to lend our expertise and gain from the rest of the players."

Click to see the entire article









New/Updated Supporting Material

FLYER

ST25DV-I2C series ST25TV series ST25TA series M24SR series ST25R3916



BROCHURE

NFC Solutions from ST
Power Management Guide
TruST25 Digital Signature Authenticity
with ST25 NFC/RFID Tags

Product & Solution for Smart Industry



DATASHEET/DATABRIEF

<u>STSW-ST25RFAL001</u>: RF/NFC abstraction layer for ST25R3911B <u>STSW-ST25RFAL002</u>: RF/NFC abstraction layer for ST25R3916 STSW-ST25RFAL003: RF/NFC abstraction layer for ST25R95



APPLICATION NOTE

AN 4910: Data exchange between wired (I²C) and wireless (RF ISO 15693) using fast transfer mode supported by ST25DVxxx

AN 5085 : Cycling endurance and data retention of EEPROMs in ST25DVxxx products based on CMOS F8H process

AN 4913: Energy harvesting delivery impact on ST25DVxxx behaviour during RF communication

AN 2972: How to design an antenna for dynamic NFC tags

AN 4974: Antenna matching for ST25R3911B/ST25R391x devices

AN 5043: Layout recommendations for the design of boards with ST25R3911B/ST25R391x devices

AN 2866: How to design a 13.56 MHz customized antenna for ST25 NFC/RFID Tags

PRESENTATIONS

ST25 product presentation
ST25R3916 product presentation
ST25DV-I2C product presentation
ST25TV product presentation
ST25TA NFC tags presentation



USER MANUAL

<u>UM 2513</u>: Firmware for the ST25R3916-DISCO board

Please consult our ST25 NFC Workspace:

http://best-collab.st.com/ws/MMY and Regions NFC mktg/SitePages/Home.aspx





ST25 NFC/RFID

Simply more connected



Simply more connected