



# ST25 NFC Newsletter

*May 2020*  
**N°7**



ST25 Product family on [www.st.com/ST25](http://www.st.com/ST25)





ST25 New product (P.1-2)  
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ST25 press release & news (P.6-9)



Supporting material update (P.10)





# Automotive high performance NFC reader for CCC digital key and car center console



## ST25R3920

The ST25R3920 is an automotive grade high performance NFC universal device supporting NFC initiator, NFC target, NFC reader and NFC card emulation modes.

[Learn more](#)

Status : Available



# High Performance NFC Reader device & EMVCo reader



## ST25R3917

The ST25R3917 is high performance NFC universal devices supporting NFC initiator, NFC target and NFC reader modes when applicable.

[Learn more](#)

Status : Available



## ST25 SDK: sequences performance improvement



### STSW-ST25SDK001

ST25SDK is a software development kit providing a rich and comprehensive library to interact with ST25 tags and dynamic tags. The main reason for the release is to improve during long sequences of EEPROM read or write operations for ST25 Type V tags.

#### What's new?

- Performance improvement
- Adding of dynamic register for Energy Harvesting control
- Command robustness improvement
- Documentation corrections and bug fixing

[Learn more](#)

Status : Available

## New update of ST25 NFC tap app for Android



### STSW-ST25001

ST25 NFC Tap App is an Android™ application dedicated to handle both NFC/RFID tags, and Dynamic NFC tags (executable file STSW-ST25001, source code STSW-ST25002).

#### What's new?

- Moved to a new Google Play account with all ST app
- New color theme
- Improvement of Bluetooth & Bluetooth LE NDEF record management
- Bug fixing

[Learn more](#)

Status : Available





## New Firmware for X-NUCLEO-NFC04A1-Crypto demo kit



### STSW-ST25DV005

The ST25DV-I2C CryptoDemo shows how to establish an NFC secure transfer channel between an STM32 and a smartphone, using the Fast transfer mode of ST25DV-I2C NFC tags. Android app is available on st.com **STSW-ST25003** and iOS app is available on request.

[Learn more](#)

Status : Available

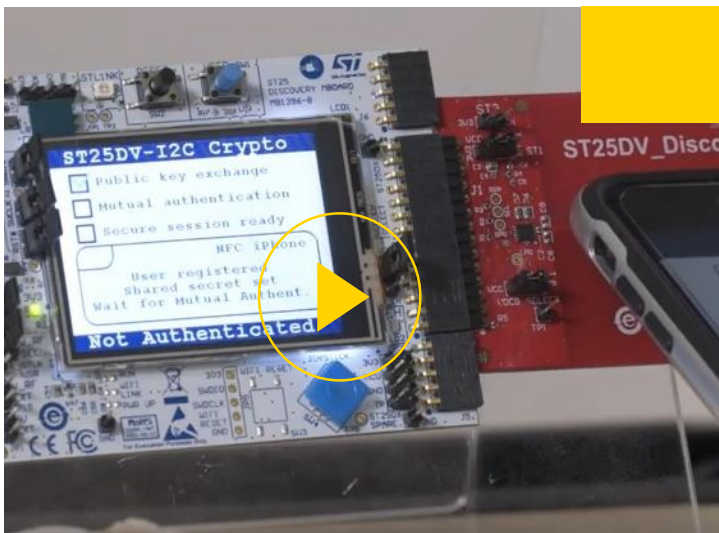




# News videos/animations

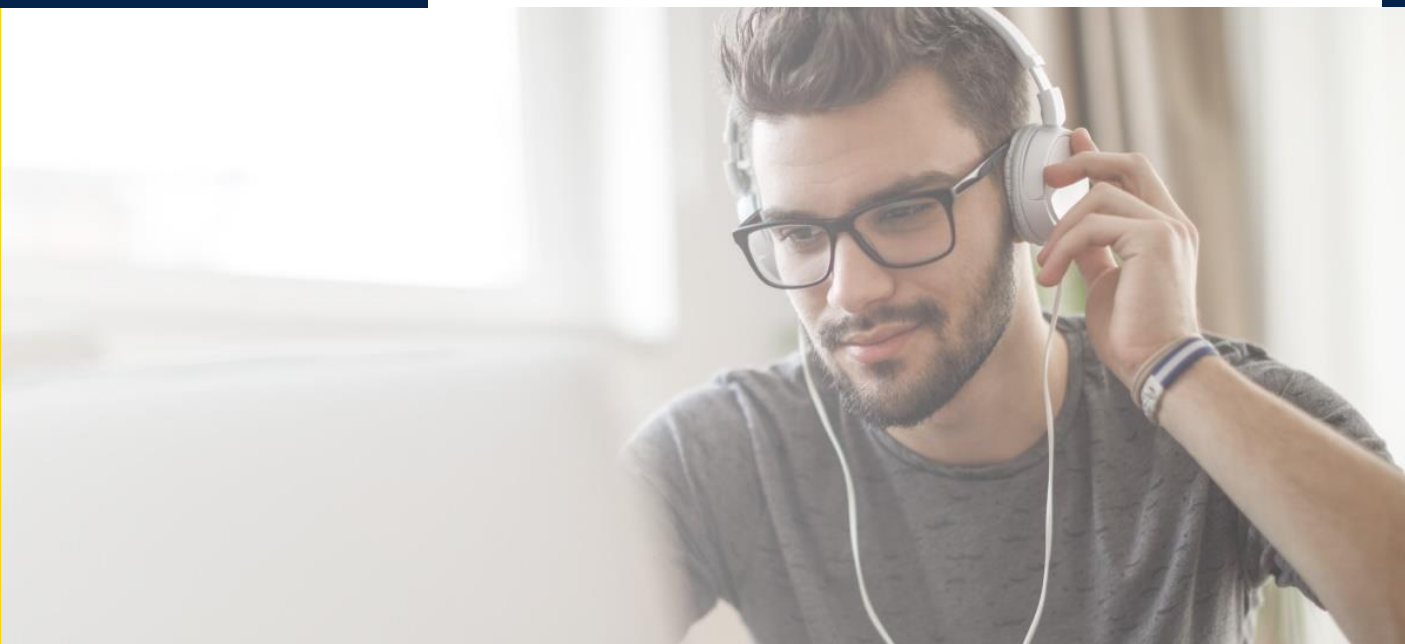


**Online Embedded Tour**  
**Secure NFC car access**  
Enabled by digital  
key system with  
ST25R3920 reader



**Online Embedded Tour**  
**Secure data transfer**  
Transfer & firmware  
upgrade with  
ST25DV-I2C D-tag

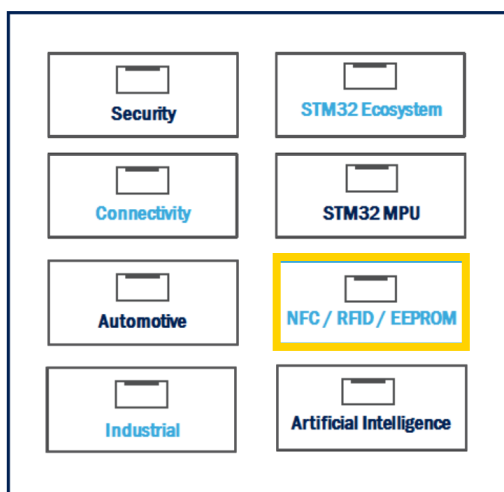




Turning a problem into an opportunity :

With Covid19, several trade shows were cancelled. But thanks to the support of the ST marketing communication team, ST has been able to post several videos including of course ST25 based"

Only one registration is required to access all the webinars. A series of videos on NFC & connectivity, motor control and automotive applications were posted every day during the event – **visit this page often so you don't miss them!**



## NFC / RFID / EEPROM

- 17 EEPROM for Datalog
- 18 NFC/RFID D-Tags
- 19 NFC/RFID Readers

**Discover the webpage now !**



Open link with Google Chrome !





**Discover how you can use NFC technology to generate PWM signals for applications ranging from lighting to motor control.**

Watch the 1-hour webinar replay to learn about a unique IC solution that allows PWM signal generation via Near Field Communication (NFC) interface. We will also cover some baseline fundamentals of NFC, and introduce STMicroelectronics' complete NFC portfolio.

The session will show you how the ST25DV-PWM series of Dynamic NFC Tags can be used for a wide variety of application segments including industrial and consumer lighting, motor control, audio generation, brand protection, physical access, and more.

**You will learn:**

- Duty cycles and frequency generated by the ST25DV-PWM
- Mechanism of Digital Signature Feature
- How to use the ST25DV-PWM as an NFC secure switch

**Discover the WEBINAR now !**



Open link with Google Chrome !





## STMicroelectronics joins Zhaga consortium



**STMicroelectronics (NYSE: STM)**, a global semiconductor leader serving customers across the spectrum of electronics applications, today announced that it has become an Associate member of the Zhaga Consortium to advance the deployment of NFC technology in the industrial lighting market.

The Zhaga Consortium is a global industry organization that aims to standardize interfaces of LED luminaires. ST's membership to the Zhaga Consortium sets to facilitate the integration of NFC in lighting products and accelerate the emergence of new standards. One of the key benefits of NFC technology is the ability to improve flexibility and efficiency of LED-driver manufacturing lines.

*"With the Zhaga Consortium, the lighting industry is paving the way towards harmonized and interoperable usage of NFC technology, driving new opportunities to enhance lighting-equipment connectivity. Our solid know-how in connectivity and lighting technologies is key to building the bridge between NFC standards and lighting-industry requirements,"* said Sylvain Fidelis, Head of Marketing & Application for NFC Tags and Readers, STMicroelectronics.

*"We welcome ST as a solid partner with strong NFC and lighting expertise and look forward to defining best-in-class standards together for connectivity in industrial lighting,"* said Dee Denteneer, Secretary General of the Zhaga Consortium.

**ST offers a wide range of solutions for the lighting industry including LED driver chips, and a rich portfolio of NFC tags, including ST25DV series for NFC Forum type 5 dynamic tags.**

[\*\*Read press release here !\*\*](#)



Open link with Google Chrome !





# ST25 “package” Marking

Top-side ST25 marking information easily available  
on one webpage

[Discover the webpage now !](#)



Open link with Google Chrome !



ST25DV-PWM series

Package	2k-bit	Marking
SO8N	ST25DV02K-W1R8S3 ST25DV02K-W2R8S3	DVAW1RB DVAW3RB
TSSOP8	ST25DV02K-W1R8T3 ST25DV02K-W2R8T3	VA1UB VA2UB



# New/Updated Supporting Material

## New ST brand refresh

### FLYER

ST25TV series  
ST25DV-PWM series  
ST25R3916 /17  
ST25TB series  
ST25R3914/15  
ST25R3911B/12



### APPLICATION NOTE

AN5320 : ST25R3916 Wake up mode  
AN5439 : Augmented NDEF with ST25DV-I2C  
AN3355 : Designing an application board compatible with M24LRxxE-R devices  
AN5322 : ST25R3916 automatic antenna tuning (AAT)  
AN4548 : EVAL-ST95HF firmware description  
AN5364 : How to protect ST25 tags from wireless charging  
AN5443 : RF performance comparison of SR contactless memory chips and ST25TB series of RFID tags

## New ST brand refresh

### BROCHURE/ WHITE PAPER

NFC solution from ST  
TruST25 Digital signature  
Blockchain & NFC/RFID

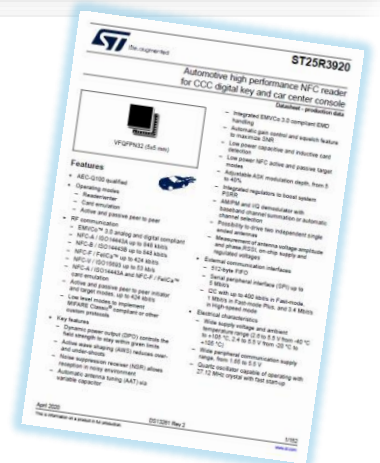


### NEW PCN

ST25DV-I2C Open-Drain GPO  
ST25TV16K/64K

### DATASHEET/DATABRIEF

DB3998 : ST25RU3993 ST UHF library  
DS10925 : ST25DV04K, ST25DV16K & ST25DV64K  
DS13261 : ST25R3920  
DS11793 : ST25R3911B  
DB3414 : STSW-ST25SDK001 software development kit  
DB4145 : ST25DV-I2C cryptographic firmware for secure communications



## New ST brand refresh

### PRESENTATIONS

ST25 product overview  
ST25TV presentation  
ST25TB presentation  
ST25DV-PWM presentation  
ST25DV-I2C presentation  
ST25R3916/17 presentation



Please consult our ST25 NFC Workspace





ST25 NFC/RFID

Simply more connected



Simply more connected

ST25 NFC/RFID