



Digital key system for secure NFC car access





ST's ecosystem for an end-to-end digital key system ST is everywhere to ensure Secure NFC Car Access

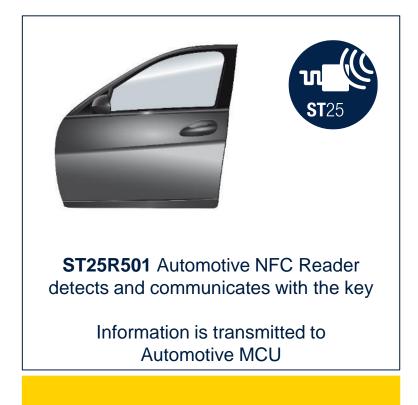






ST31 eSE enables NFC-A card emulation and energy harvesting

In the digital key



In the door handle



In the car





STSECURE solutions for smartphones & smartcards

A complete offer for digital keys



a smartphone based on **ST54**



an NFC card based on ST31

ST54 NFC/eSE (+eSIM) for multiple applications and devices

- A reference solution in Android ecosystem
- #1 Felica, MIFARE® integration in Android framework
- Best-in-class RF performance, reduced bill of material & power consumption

ST31 eSE enables NFC-A card emulation

- Common criteria, EMVCo®, CUP, FIPS security certified
- Low power design and energy harvesting enabled
- An enhanced performance and fully interoperable with market readers

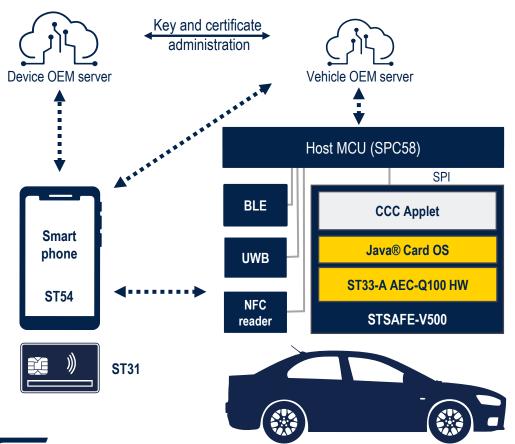




STSAFE-V500

Flexible solution for secure car access & car start

A discrete eSE in the vehicle's center console



- SoC solution based on Java Card[™] (3.0.5 classic edition, GP 2.3)
- CCC R2 and R3 specification compliant
- Based on ST33-A hardware / AEC-Q100 Grade 2, CC EAL6+ certified
- Password verifiers and digital key secure storage
- Owner pairing secure protocol / Mutual authentication car to phone
- Secure OTA software update following SCP03 or SCP11.c protocol





ST25R500 High-performance NFC reader

Enhanced connectivity for an improved user experience



Low-power consumption

Inductive low-power wakeup for key detection

Large key detection range

- High output power for large communication range
- Dynamic power output
- Highest sensitivity in the market

Fast time-to-market

- MISRA-C:2012-compliant software library
- Low-noise output drivers
- Excellent noise immunity to pass injection tests
- CR13 compliance (required by CCC)



ST25R501 Size-optimized NFC reader

Enhanced connectivity in a smaller package



Smallest package

 4 x 4 mm with 36% smaller footprint compared to ST25R500

Large key detection range

- High output power for large communication range
- Dynamic power output

Fast time-to-market

- MISRA-C:2012-compliant software library
- Low-noise output drivers
- Excellent noise immunity to pass injection tests
- CR13 compliance (required by CCC)



SPC58 Automotive microcontroller

The ideal MCU for keyless access solutions



Unprecedented scalability

- From single core 64 MHz up to triple core 200 MHz
- 512 Kbit Flash, up to 10 Mbit Flash
- QFN48, and QFP64 up to BGA386

Isolated hardware security module

- Secure boot
- Crypto accelerator (Symmetric and asymmetric algorithms)
- Evita Medium and Full

Full support ecosystem

Dedicated software packages for security

Our technology starts with You





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