



life.augmented

Digital Key System

Secure NFC Car Access

End-to-end digital key system

ST is everywhere to ensure Secure NFC Car Access



ST54 combines an eSE and an NFC Controller in a Mobile Phone



ST31 eSE enables NFC-A card emulation and energy harvesting

In the digital key



ST25R3920 Automotive NFC Reader detects and communicates with the key

Information is transmitted to **STM8-A** Automotive MCU

In the door-handle



SPC58 Automotive MCU receives information from the door-handle

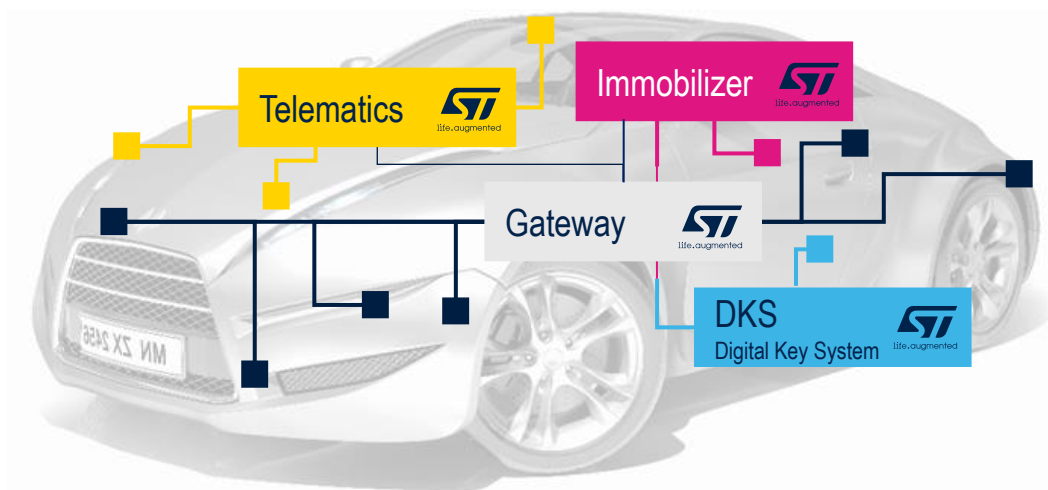
ST33-A Secure Element authenticates the user to enable car access

In the car



ST33-A secure element

CC EAL5+-certified eSE for Automotive applications



Secure connectivity in telematics

eCall
Diagnostics
Software Upgrades (FOTA)
Payment & Internet services
Real-time traffic information
V2X

In-car security and integrity

Gateways
Authentication units & Immobilizer
DKS: Digital Key Devices
Sensor integrity : camera, radars

eSE secure storage and services

Secure boot
EAL5+Secure storage of confidential data
Cryptographic services
EAL5+ Common Criteria



ST25R3920 NFC reader

High NFC Performance for an Improved User Experience



Low-Power Consumption

- Inductive low-power wakeup
- No MCU needed for key detection

Wide Key Detection Range

- 500 mA peak output current
- Dynamic Power Output
- Highest sensitivity in the market

Fast Time-to-market

- MISRA-C:2012-compliant SW library
- Low-noise output drivers
- Development kit available



SPC58 automotive microcontroller

Great Line-up focused on Performance

