

NFC Key Cards

Offering a convenient way to access cars



Carmakers are going away from traditional key fobs to more convenient ways to access and start vehicles. NFC Key Cards are one of those suitable solutions. As small as a payment card, they can easily fit in one's wallet while playing the key fob's brand accessory role.

A convenient backup to phone-as-a-key solutions

The automotive industry is undergoing a digital revolution that changes usage patterns and ownership models. This revolution requires more flexible ways to access vehicles; consequently, what used to be a physical car key is being dematerialized into our smartphones.

Although digital car keys give unprecedented convenience, yet smartphones can run out of battery, be lost or stolen.

To solve this, carmakers also provide end-users with NFC key cards: a sidekick solution for car access with a visual brand reminder.

A rich and customizable offering

The IDEMIA NFC Key Cards portfolio includes cards made out of high temperature plastic, recycled plastic, or metal. They can be customized with tactile effects, colored edge, shiny metal effects and laser engraving.

All our NFC Key Cards are compliant with multiple car access technologies, including Car Connectivity Consortium (CCC) and proprietary protocols.

IDEMIA provides carmakers with on-brand design creation, customized applications development, and secure personalization of sensitive carmakers' credentials.

To further help carmakers enhance customer experience according to their lifestyle and values, IDEMIA offers fulfillment services providing NFC Key Cards with outstanding customized packaging.

Benefits



Convenient back-up

IDEMIA NFC Key Cards are a secure and convenient sidekick solution to digital car keys.



Brand visibility

IDEMIA NFC Key Cards provide drivers with a visual reminder of the carmaker's brand.



Personalized experience

IDEMIA NFC Key Cards can serve as payment or loyalty cards and be associated with a driver's profile to activate preferred settings before getting into the vehicle.

Why IDEMIA?

We have built our NFC Key Cards portfolio based on decades of experience in payment cards and identity documents:

- › #1 in US driver's license issuance
- › 3B+ identity documents issued worldwide
- › 800M+ payment products delivered per year including cards

We have an industrial footprint experience in automotive quality production standard (IATF).

Our in-house community of designers and technology experts are ready to help carmakers create eye-catching designs and select the most appropriate technologies.

A simple and personalized user experience

To unlock a car, drivers tap the NFC Key Card on the door handle or the B-pillar. Once inside the cabin, they place their NFC Key Card in the wireless charging dock, push the start button, and can enjoy their ride.

When drivers access a car with an NFC Key Card, the vehicle can set to all their preferred settings: seats and mirrors position, radio presets, etc. — providing a seamless experience without the need for drivers to manually adapt settings.

NFC Key Cards can also be used as payment or loyalty cards, or to save the vehicle's administrative history.



Multiple designs can be created using different finishes (matte, glossy, satin), colored edges, printed designs, and textures or effects that combine printed design and a 3D varnish.



Cutting-edge technology

- › ISO/IEC 14443 A & B (Contactless cards)
- › ISO/IEC 7810 ID1 (Card dimensions)
- › EMVCo® and CC EAL6+ certified chipset
- › Symmetric (AES, DES), hash (SHA) and asymmetric cryptography (ECC)
- › GlobalPlatform® 2.2.1 and Java Card 3.0.5
- › CCC or Proprietary or MIFARE DESFire® EV3 support
- › Mechanical and physical qualification according to ISO/IEC 10373, ISO/IEC 24789 including static and dynamic bending, ageing, chemical resistance, abrasion and temperature tests
- › Temperature range: -40°C / +85°C (-40°F / 185°F)