

# Security and convenience

NXP's keyless access and immobilizer solutions



# Complete car access and immobilizer portfolio, plus application support

Electrical systems, with their ability to make dramatic improvements in car safety, security, and convenience, have become essential to car design.

At NXP, we offer a broad range of innovative solutions that enhance the way electrical systems can benefit a vehicle's architecture. In particular, our access and immobilizer portfolio includes a variety of cost-efficient technologies that make cars more secure, and make car access more convenient.

We take car access to the next level, with keyless entry/go applications that facilitate system design, deliver maximum system security, and offer new options for connectivity. Our RF solutions give the added ability to implement one- or two-way communication between the key and the car, opening up new possibilities for monitoring vehicle status remotely.

Our application approach, which combines our ICs with full support for a complete application, gives our customers an advantage, letting them leverage our years of experience in automotive design and shorten time-to-market.

# Remote keyless entry

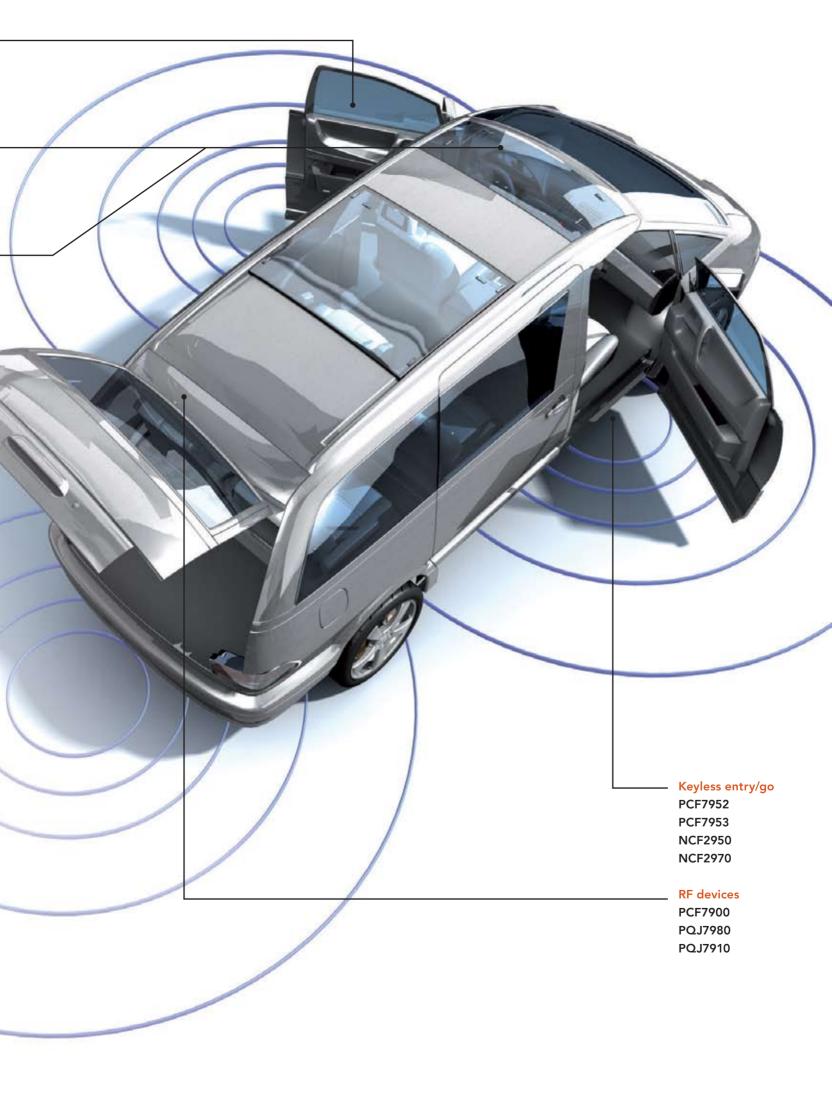
PCF7941/PCF7921 PCF7945 PCF7961/PCF7922 NCF2940

#### Immobilizer transponder

PCF7936 PCF7937 PCF7938 PCF7939

#### Immobilizer basestation

PCF7991 PJF7992 PJF7993





# Car access and immobilizer solutions

Our highly integrated ICs for car access and immobilizer applications combine secure operation, convenience, and flexibility. The result is a portfolio of solutions that are ideal for today's advanced, feature-rich key designs.

# Keyless entry/go family

Our market-leading chipsets for keyless entry/go deliver the ultimate in security and convenience, unlocking the car automatically without any direct action by the key holder. Equipped with embedded low-power processors, these cost-effective solutions enable a range of convenient features, including push-to-start. They offer excellent LF sensitivity, sophisticated wake-up detection, ultra-low power consumption and integrate 3D LF and RISC controller ICs.

#### Immobilizer and remote keyless entry family

We offer a range of devices, from standalone immobilizer transponders to fully integrated immobilizer and remote keyless entry ICs, so you can choose exactly the right performance and functionality for your application. Our remote keyless entry solutions include options with an integrated UHF transmitter and transponder coil, and our basestation solutions simplify the design of immobilizer systems.

#### **RF** devices

To complement our keyless entry portfolio, we offer a full range of sophisticated RF devices for communication in the ISM band, up to 1 GHz. We support cutting-edge designs for car access, with extensive system know-how and a range of solutions – from a transmitter based on a fractional-N PLL to transceiver and receiver solutions that integrate a variable bandwidth filter and a low-power polling timer.

## Connectivity with the key of the future

Our latest keyless entry/go ICs offer innovative connectivity, employing an ISO14443 interface compatible with Near Field Communication (NFC) devices. They make it possible for an NFC enabled mobile phone to query vehicle status via the car key, and enable remote configuration of the car.



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