

## ***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.

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### **Remote keyless entry**

PCF7941/PCF7921  
PCF7945  
PCF7961/PCF7922  
NCF2940

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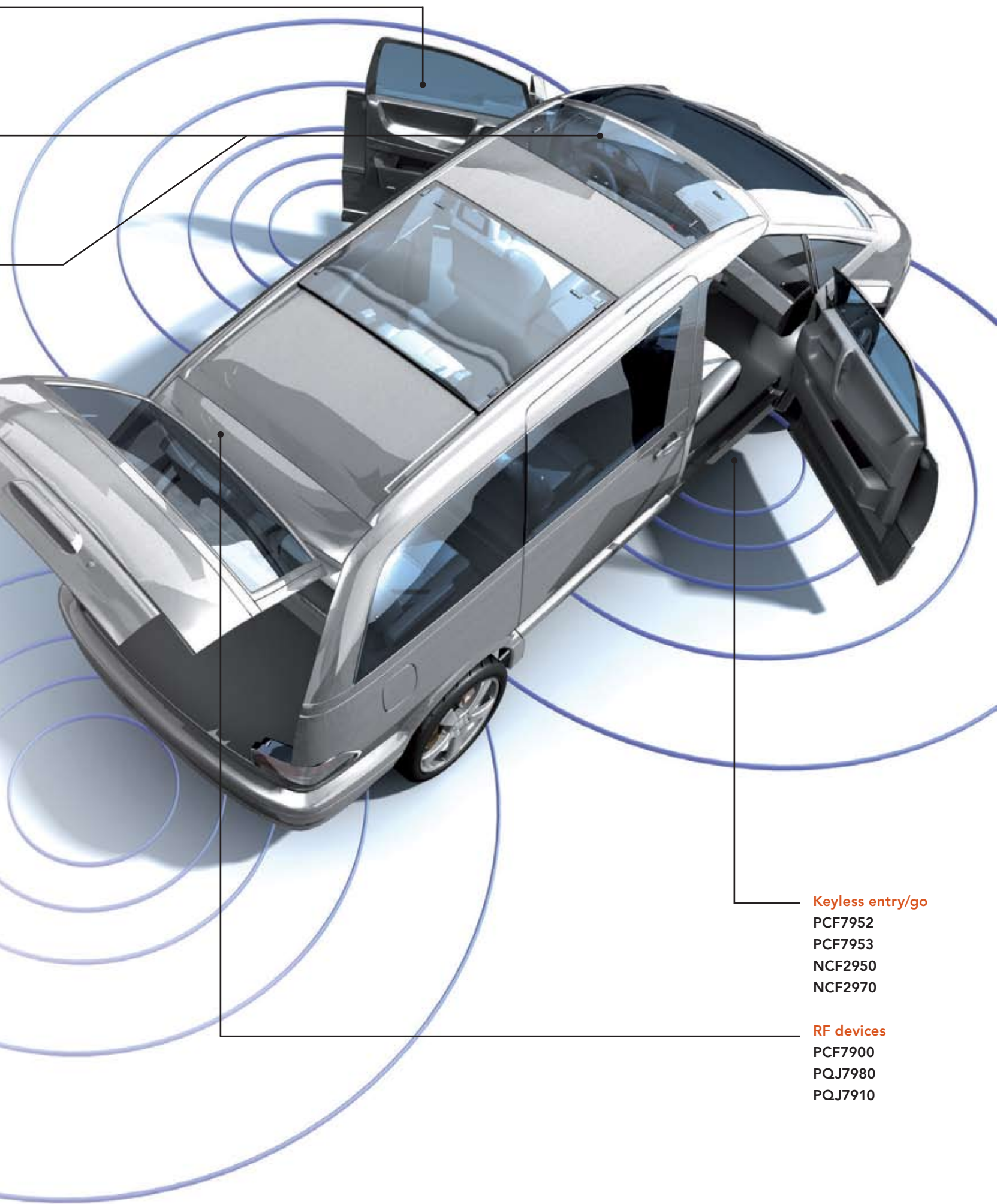
### **Immobilizer transponder**

PCF7936  
PCF7937  
PCF7938  
PCF7939

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### **Immobilizer basestation**

PCF7991  
PJF7992  
PJF7993



**Keyless entry/go**

PCF7952  
PCF7953  
NCF2950  
NCF2970

**RF devices**

PCF7900  
PQJ7980  
PQJ7910

# 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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