

MIFARE – Contactless Smart Card

Fully compliant with ISO 14443A, MIFARE is the leading industry standard for contactless and dual interface smart card schemes, with an immense worldwide installed base. The platform offers a full range of compatible contactless smart card and reader ICs, as well as dual interface ICs that provide a link between the contactless and contact card markets.



Products

The MIFARE interface platform currently consists of six product families:

- **MIFARE Classic** covers hardwired ICs using the MIFARE communication protocol, such as the MIFARE Standard 1k and the new MIFARE Standard 4K.
- **MIFARE Ultralight** is ideal for low cost, high volume limited-use tickets for public transport, event ticketing and many other application areas. It provides the perfect replacement for today's magnetic-stripe tickets.
- **MIFARE DESFire EV1** is the first contactless IC on the market to support the AES (Advanced Encryption Standard) as well as common cryptography methods such as DES and 3DES. NXP's MIFARE DESFire EV1 smart cards and **MIFARE DESFire EV1 SAMs** in readers are ideal for public transportation, event ticketing, identity, e-government, city loyalty and e-purse schemes.

Key Applications

- Electronic ticketing in public transport
- Road tolling
- Airline tickets
- Access control
- Multiple applications



MIFARE is the leading industry standard for contactless smart card transactions

- Worldwide largest installed base with more than 10 million MIFARE reader core components sold, and more than 1 billion contactless and dual interface ICs sold
- Fully compliant to ISO 14443A
- Future-proof evolution path and roadmap – standard interface ensures that today's infrastructure can easily be upgraded for future card ICs
- Consistent product portfolio and multiple sourcing at all levels of the value chain

MIFARE -- An Open Platform

- MIFARE is an open platform, available to any company willing to develop, market and sell MIFARE-compatible products under conditions of common industry practice. Companies supporting MIFARE throughout the full value chain of the various applications (service providers, system integrators, card and reader manufacturers, software companies) can make use of extensive support services:
- MIFARE compatibility certification by the independent MIFARE Certification Institute (MCI) Test-house Arsenal, which ensures that certified cards and readers from any supplier work together properly
- mifare.net – a forum to drive and support the development of the MIFARE interface platform for all companies and institutions involved in MIFARE.