NXP Semiconductors is an independent semiconductor company with a fifty-year history of providing engineers and designers with semiconductors and software that deliver better sensory experiences for mobile communications, consumer electronics, security applications, contactless payment, connectivity, in-car entertainment and networking.

NXP Semiconductors has developed MIFARE, the leading contactless smart card interface for public transportation. With more than 7 million installed readers and 1,2 billion cards in circulation, MIFARE is a proven, secure, open and reliable technology, which meets the highest and most challenging customer needs.

Fully compliant with the ISO standard 14443A, MIFARE ensures that today's smart card schemes can easily be upgraded and expanded. It enables service providers to make their transportation networks more attractive and convenient for end users by integrating additional services such as payment for taxis, cinemas and theatres, loyalty programmes, access control and parking. And all while reducing the total costs of operations.

With more than 72% market share and projects like London, Stockholm, Moscow, Atlanta, Seattle, São Paulo, Beijing, Seoul, Taipei, Sydney etc. NXP Semiconductors is the world's leader in the design and manufacturing of contactless smart card ICs for the public transportation market. NXP's product portfolio covers all relevant worldwide specifications and solutions for single-ride tickets up to highly sophisticated multi-application cards.

NXP's offering 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 dual interface controllers include the MIFARE PRO and the MIFARE PROX, family. These 8-bit microcontroller ICs feature an open protocol on both contact and contactless interfaces, delivering the flexibility and security to support multiple applications on a single card IC.

MIFARE DESFire8 is the first contactless IC on the market to support the Advanced Encryption Standard (AES) as well as common cryptography methods such as DES and 3DES. NXP's MIFARE DESFire8 smart cards and MIFARE DESFire8 SAMs in readers are ideal for public transportation, event ticketing, identity, eGovernment, city loyalty and e-purse schemes.

MIFARE Reader Components include reader ICs, reader modules and evaluation kits conforming to a range of 13.56 MHz contactless standards such as ISO 14443A & B and ISO 15693.

Key applications
* Public transportation
* Access control
* Event ticketing
* City loyalty
* e-Purse

Contact details
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