Pack of 100 - MIFARE DESFire EV3 4K card

The MIFARE DESFire EV3 4K card from NXP operates at 13.56 MHz wireless frequency, according to the ISO 14443A standard with the transport protocol complying to the ISO 14443-4 standard.

This card is fully backward compatible with MIFARE DESFire EV1 and EV2 cards and readers, but increases the size of the communication buffer to 256 bytes, adds a transaction timer to mitigate against man-in-the-middle attacks, and secure dynamic messaging. The MIFARE DESFire EV3 meets Common Criteria EAL5+ security requirements. Compatibility is enhanced with mobile MIFARE 2GO services.

Like earlier versions it features a 4kbyte non volatile memory, a high speed triple-DES and AES encryption co-processor, a flexible memory organization structure, a mutual 3-pass authentication technique together with a true random number generator and an anti-tear mechanism to guarantee data integrity during contactless transactions. These cards typically operate at a distance of up to 10cm depending on the power provided by the reader.

This card is NFC Forum Type 4 compliant.

Supplied as blank white printable PVC cards to ISO standard size and thickness in packs of 100. Our cards contain only original NXP chips and use premium quality materials and production methods in order to ensure maximum performance, reliability and compatibility.

Highly secure contactless card with non-proprietary encryption algorithm. Extended EV3 command set includes EV1 and EV2 sets for backwards compatibility. 4Kbyte memory. Operates at 13.56 MHz. Pack of 100 cards.

To buy, visit:
https://www.smartcardfocus.com/shop/ilp/id~989/p/index.shtml

This Product Briefing has been produced by Dot Origin Ltd, the smart card experts behind SmartcardFocus.com. If you have a query email sales@smartcardfocus.com or call us on +44 (0)1428 685250.

MIFARE DESFire EV3 4K card

Memory

EEPROM size [bytes]: 4096

Write-endurance [cycles]: 1 000 000

Data retention [years]: 25

Organisation: flexible file system

RF-Interface

Acc. to ISO 14443-2/3A: yes - up to layer 4

Frequency [MHz]: 13.56

Baudrate [kbit/s]: 106 ...848

Anticollision: bit-wise

Operating distance [mm]: Up to 100

Security

Unique Serial Number [byte]: 7, cascaded

Random Number Generator: Yes

Access keys: 14 keys per application

Multiple key sets: Up to 16 per application

Access conditions: per file

DES & DES3 security: MACing / Encipherment

AES security: MACing / Encipherment

Anti-tear supported by chip: yes , added transaction timer support

Proximity check: yes

Special Features

Multi-application : Unlimited applications, MIsmartApp

Purse functionality: Value file

Transaction MAC: Per application

Virtual Card Architecture: PICC & application level

Warranty: 1 year manufacturer's warranty

Country of origin: China

HSF code: 85235200

Chip manufacturer: <u>NXP</u>