

Pack of 100 - MIFARE DESFire EV2 4K card



The MIFARE DESFire EV2 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 cards and readers, but offers an extended command set and allows unlimited applications (subject to memory space), multiple keys per access right and additional proximity and originality checks to further enhance security of transactions. The MIFARE DESFire EV2 meets Common Criteria EAL5+ security requirements, and also has innovative new features to support shared and delegated application management.

Like the EV1 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 EV2 command set includes EV1 set for backwards compatibility. 4Kbyte
memory. Operates at 13.56 MHz. Pack of 100 cards.

To buy, visit:

<https://www.smartcardfocus.com/shop/ilp/id~940/p/index.shtml>

This Product Briefing has been produced by Dot Origin Ltd, the smart card experts
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MIFARE DESFire EV2 4K card or tag

Memory

EEPROM size [bytes]: 4096
Write-endurance [cycles]: 500 000
Data retention [years]: 25
Organisation: flexible file system

RF-Interface

Acc. to ISO 14443A: 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
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
Chip manufacturer: NXP