

MIFARE DESFire EV1 4K keyfob - thin, green



A green 45mm x 30mm x 2.2mm keyfob containing a MIFARE DESFire EV1 4K chip. This extremely durable, 100% waterproof thin keyfob is designed to be attached directly to a keyring. A useful alternative for contactless systems, it operates at 13.56 MHz wireless frequency, according to the ISO 14443A standard with the transport protocol complying to the ISO 14443-4 standard.

The MIFARE DESFire EV1 4K keyfob contains 4K bytes of non-volatile memory, a high speed triple-DES data 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.

MIFARE DESFire keyfobs typically operate at a distance of up to 10cm depending on the power provided by the reader.

This keyfob is NFC forum type 4 compliant.

Highly secure contactless thin keyfob with non-proprietary encryption algorithm. 4K bytes of memory. Operates at 13.56 MHz. Green, 100% waterproof.

To buy, visit:

<https://www.smartcardfocus.com/shop/ilp/id~781/mifare-desfire-ev1-4k-keyfob-thin-green/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 cards & tags

Technical Specifications

Memory

EEPROM size [byte]: 4096bytes (MIFARE DESFire 4k); 8192bytes (MIFARE DESFire 8k)

Write-endurance [cycles]: 500 000

Data retention [years]: 10

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

Access conditions: per file

DES & DES3 security: MACing / Encipherment

AES security: MACing / Encipherment

Anti-tear supported by chip: yes

Special Features

Multi-application : 28 applications, MAD3

Purse functionality: Value file

Secure Transport Transaction: 512 byte read, 128 byte write

Transaction Time [ms]: 89

Typical applications include:

- Transport
- Access control
- Loyalty
- Internet applications

A picture of the MIFARE DESFire EV1 4k thin keyfob is shown below.



Manufacturer: NXP