

# MIFARE DESFire Tags

**CARD**

85,6 x 53,98 x 0,78 mm

**KEYFOB**

35 x 46 x 5,1 mm

## MIFARE DESFire Tag products

- MIFARE DESFire EV1 keyfob 8K
- MIFARE DESFire EV1 card 4K
- MIFARE DESFire EV3 keyfob 4K
- MIFARE DESFire EV3 card 4K



## Mifare DESFire EV1 keyfob 8K

### Memory

EEPROM Size (byte)	7936
Write Endurance typical [cycles]	500 000
Data Retention [yrs]	10

Organization	Flexible file system
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### RF Interface

Acc. to ISO 14443 A	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 & 3DES Security	MACing / Encipherment
AES Security	MACing / Encipherment
Anti-tear supported by chip	Yes

### Special Features

Multi-application	28 applications
Secure Transport Transaction example	512 byte read, 128 byte write
Related Transaction Time [ms]	89
Field strength	According to EN300330

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## DESFire EV1 / EV3 card / keyfob 4K

### Memory

EEPROM Size (byte)	EV1: 4864 EV3: 5120
Write Endurance typical [cycles]	EV1: 500000 EV3: 1000000
Data Retention [yrs]	EV1: 10 EV3: 25

Organization	Flexible file system
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### RF Interface

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Frequency [MHz]	13,56
Baudrate [kbit/s]	106 ... 848
Anticollision	Bit-wise
Operating Distance [mm]	Up to 100

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Unique Serial Number [byte]	7, cascaded
Random Number Generator	Yes
Access Keys	14 keys per application
Access Conditions	Per file
DES & 3DES Security	MACing / Encipherment
AES Security	MACing / Encipherment
Anti-tear supported by chip	Yes

### Special Features

Multi-application	28 applications for EV1 Unlimited for EV3
Secure Transport Transaction example	512 byte read, 128 byte write
Related Transaction Time [ms]	89

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