

## MIFARE DESFire EV2



# MIFARE DESFIRE EV2



The MIFARE DESFire EV2 contactless IC is ideal for system operators and developers building reliable, interoperable and scalable contactless solutions. The second evolution of our industry-leading MIFARE DESFire family offers superior performance, security and enhanced multi-application support.

MIFARE DESFire EV2 is based on global open standards for both air interface and cryptographic methods. It is compliant to all levels of ISO/IEC 14443A and supports optional ISO/IEC 7816-4 commands (APDU and file structure supported) and is fully interoperable with existing NFC reader infrastructure.

Featuring an on-chip backup management system and the mutual three-pass authentication, a MIFARE DESFire EV2 card can hold as many applications as the memory can accommodate. Each application can hold up to 32 files with various data configurations.

MIFARE DESFire EV2 delivers the perfect balance of speed, performance, and cost-efficiency. Its open concept allows seamless future integration of other ticketing media such as smart paper tickets, banking convergence card, and mobile ticketing based on Near Field Communication (NFC) technology. It is also fully compatible with the existing NFC reader hardware platform.

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### EP-DFC-EV2

#### SPECIFICATION & DIMENSION

#### Model:

#### Memory

EEPROM size: Write endurance [cycles]: Data retention [yrs]:

#### Security

Unique serial number [byte]: Random number generator: Access keys: Multiple key sets: AES, 3DES & DES Security: Common Criteria certification(HW+SW):

#### **Special Features**

Number fo files per app: Purse functionality: Transaction MAC: Virtual smart card architecture:

#### **RF-Interface**

Acc. to ISO 14443A: Frequency: Baud rate: Anti-collision: Operating distance:

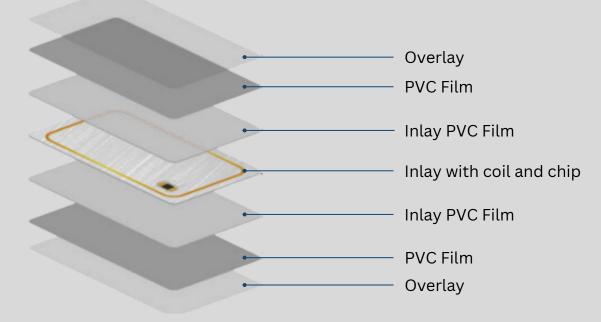
#### EP-DFC-EV2

2/4/8/16/32 kB 500,000 10

7, cascaded Yes 14 keys per application Up to 16 per application MACing/Encipherment EAL5 +

32 Value file Per application PICC and application level

Yes-up to layer 4 13.56MHz 106 ... 848kbit/s Bit-wise Up to 100mm



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