



# MIFARE DESFire EV2



## MIFARE DESFire EV2

EP - DFC - 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.

[NUVEQ.NET](http://NUVEQ.NET)

CLOUD-BASED ACCESS CONTROL SYSTEM | MOBILE ACCESS

# EP-DFC-EV2

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## SPECIFICATION & DIMENSION

<b>Model:</b>	<b>EP-DFC-EV2</b>
<b>Memory</b>	
EEPROM size:	2/4/8/16/32 kB
Write endurance [cycles]:	500,000
Data retention [yrs]:	10
<b>Security</b>	
Unique serial number [byte]:	7, cascaded
Random number generator:	Yes
Access keys:	14 keys per application
Multiple key sets:	Up to 16 per application
AES, 3DES & DES Security:	MACing/Encipherment
Common Criteria certification(HW+SW):	EAL5 +
<b>Special Features</b>	
Number fo files per app:	32
Purse functionality:	Value file
Transaction MAC:	Per application
Virtual smart card architecture:	PICC and application level
<b>RF-Interface</b>	
Acc. to ISO 14443A:	Yes-up to layer 4
Frequency:	13.56MHz
Baud rate:	106 ... 848kbit/s
Anti-collision:	Bit-wise
Operating distance:	Up to 100mm

