

## **DS-K7M106-D0E** **Desfire Card (encrypted)**

- DesfireEV2 technology
- Frequency: 13.56MHz
- ISO14443A Type A Communication protocol
- Compliant Acc. to ISO/IEC 14443 A 1-4
- Support Random number generator

## ▪ Specification

Network	
Communication protocol	ISO14443A Type A
Authentication	
Card radio frequency standard	13.56 MHz
Description	
Card Technology	NFC (DesfireEV2)
RF-Interface Type	ISO/IEC 14443 Type A
Acc. to ISO/IEC 14443 A	Yes- 1-4 compliant
Baud rate [kbit/s]	106 kbit/s, 212 kbit/s, 424 kbit/s, 848 kbit/s
Secure transport transaction (read/ write files)	Common Criteria certification: EAL5+ (Hardware and Software)
Anti-collision Method	Transaction-oriented automatic anti-tear mechanism with new transaction timer support
Operating distance [mm]	up to 100 mm
NFC Tag Type 4 compliant	NFC Forum Type 4 Tag certified (Certificate ID. 58652)
Memory Type	NV-memory
EEPROM size	4 kB
Write endurance [cycles]	typical 1 000 000 cycles
Data retention [yrs]	25 years
Unique serial number [byte]	7 bytes unique identifier
Random number generator	Optional "RANDOM" ID for enhanced security and privacy
Access keys	Flexible key management: 1 card master key and up to 14 keys per application
Access conditions	Multiple key assignment for each file access rights (up to 8)
AES, 3DES & DES Security	Support
Anti-tear supported by chip	Yes
Secure transport transaction example	Prior to data transmission a mutual three-pass authentication can be done between DESFire EV2 and PCD depending on the configuration employing either 56-bit DES (single DES, DES), 112-bit DES (triple DES, 3DES), 168-bit DES (3 key triple DES, 3K3DES) or AES.
General	
Working temperature	-25°C~125°C (-13°F~257°F)
Dimensions	85.5mm x 54mm x 0.9mm

## ▪ Available Model

DS-K7M106-D0E

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