

LNL-EV28KPP

Mifare DESFire EV2 ISO Composite 8K - Pre-Programmed for LenelS2 BlueDiamond readers

Description

By implementing LenelS2 credentials containing publicly tested algorithms such as DES, 3DES, and AES encryption, 13.56 MHz contactless smart card technologies such as Mifare® DESFire® EV2® and/or BlueDiamond Mobile Credentials provide a cost effective solution and provide encryption of data on the credential, and the transaction between the credential and reader. Further, utilizing LenelS2 BlueDiamond readers with OSDP Secure Channel functionality provides encryption of the data from Reader to an OSDP secure Channel compliant access panel. The Pre-Programmed cards need a "Specialty Credential Order" form to specify the card bit size, format number, facility code, start and stop card number.

Operation

These Mifare DESFire EV2 cards can be used with Mifare DESFire EV1 / EV2 card readers. The cards are either Pre-Programmed with a LenelS2 key, or Un-programmed. The unique ID-number of the Mifare chip, the so-called Chip or Card Serial Number (CSN) can also be used by the readers. The credentials are ISO compliant and can be programmed with Secure Envelope AES and DES encryption with leading card formats to work with our readers. Conventional form factors are available including ISO card, ISO with Magstripe, and Keyfob. Mifare DESFire EV2 cards are designed for diverse applications that demand the highest levels of security, including access control and biometric identification, cashless vending, public transportation, ticketing and customer loyalty cards. Available in PVC and composite.

Memory type

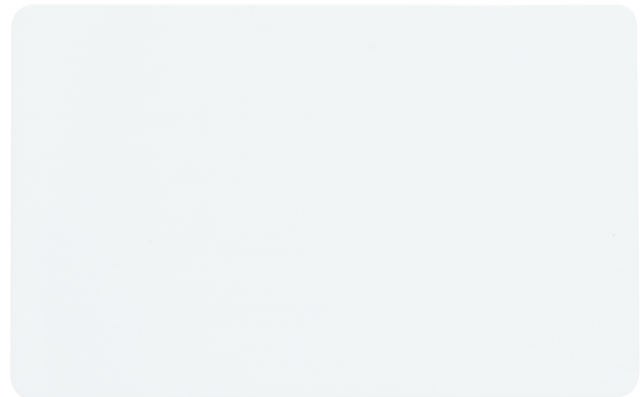
The credentials exist in 2 and 8 Kbytes of dynamic memory arranged in easy-to-define application folders and data files.

Innovation in multi-application smart cards

The Mifare DESFire EV2 contactless IC brings many benefits to end users. Cardholders can experience convenient contactless ticketing while also being able to use the same device for applications such as student ID, closed-loop payment at vending machines, access management, and loyalty programs. In addition, system providers can offer or sell application space to third parties without having to share the master key. A Mifare DESFire EV2 product-based card can hold as many different applications as the memory will support, and new applications can be loaded after the product is in the field. A purse can even be shared between applications, for greater interoperability.

Contactless performance

For a truly convenient touch-and-go experience, Mifare DESFire EV2 offers a significant increase in operating distance and speed compared to previous versions. The 70 pF option enables read range optimizations of small antenna form factors. Mifare DESFire EV2 delivers the perfect balance of speed, performance and cost efficiency.



Details

- PVC or Composite Card
- NXP chip
- Bending and torsion stress tested
- High security
- Credit card thickness
- Read/Write functionality
- Reliable Technology
- Fast data communication
- ISO/IEC 14443 A 1–4 and ISO/IEC 7816 compliant
- Flexible file structure
- NFC Tag Type 4 compliant
- Unlimited number of applications
- Multiple key sets per application for key rolling
- High data rates according to ISO/IEC 14443-4: up to 848 Kbits/s
- Unique 7-byte serial number (ISO Cascade Level 2)
- Common Criteria certification: EAL5+ for IC hardware and software

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Technical specifications

Technology

Credential type	Smart card
Credential operating frequency	13.56 MHz
Support technology	Mifare DESFire EV2 (CSN) 13,56 MHz
RF interface	ISO 14443 A, Parts 1-4 and ISO/IEC 7816 compliant
Baud Rate	Activation at 106 kbps; Data transfer up to 848 kbps
Anti-collision	Bit-wise
Unique serial number [byte]	7, cascaded
Access keys	14 keys per application
Multiple key sets	Up to 16 per application
Access conditions	Per file
AES, 3DES & DES Security	MACing/Encipherment
Anti-tear supported by chip	Yes
Common Criteria certification (HW+SW)	EAL5 +

System

Reading distance	10 mm
Memory size	8 kB
Card slot punch	No

Printing

Direct surface printing	Yes
Thermal transfer printing	Yes

Ordering information

Minimum order quantity	100
Cards/tags in package	100
Special card order form required	No
Always order in multiples of	100

Physical

Surface cover	Glossy
Material	Composite
Form factor	CR80 (Credit)
Physical dimensions	85 x 54 x 0.76 mm
Net weight	6
Colour	Polar white

Environmental

Vandal proof	No
Operating temperature	-10° to +50°C
Storage temperature	-10° to +50°C
Environment	Indoor / Outdoor
IP rating	68

Standards & regulation

Compliance	CE, RoHS 2
Standards	ISO 7816 compliant

Memory

Memory Type	NXP Mifare DESFire EV2 2k (EEPROM)
Write Endurance	500,000 cycles
Data Retention	10 years min
Organization	Flexible file system

How to order

LNL-EV22KPP	MIFARE DESFIRE EV2 2K PVC CARD PRE-PROGRAMMED FOR LENEL2 BLUEDIAMOND MOBILE READERS
LNL-EV22KPPFOB	MIFARE DESFIRE EV2 2K PLASTIC KEYFOB PRE-PROGRAMMED FOR LENEL2 BLUEDIAMOND MOBILE READERS
LNL-EV22KPPMG	MIFARE DESFIRE EV2 2K PVC CARD WITH MAGSTRIPE. PRE-PROGRAMMED FOR LENEL2 BLUEDIAMOND MOBILE READERS ON EV2 APPLICATION DATA ONLY
LNL-EV28KPP	MIFARE DESFIRE EV2 ISO COMPOSITE 8K 13.56 MHZ - PRE-PROGRAMMED FOR LENEL2 BLUEDIAMOND MOBILE READERS
LNL-EV28KXPP	DUAL TECHNOLOGY - MIFARE DESFIRE EV2 ISO COMPOSITE WITH PROXIMITY CHIP CARD - PRE-PROGRAMMED PROXIMITY AND PRE-PROGRAMMED 13.56 MHz (FOR LENEL2 BLUEDIAMOND MOBILE READERS). BADGE ID WILL MATCH BETWEEN HIGH AND LOW FREQUENCY
LNL-EV22KNP	MIFARE DESFIRE EV2 2K PVC CARD PRE-PROGRAMMED
LNL-EV22KNPFOB	MIFARE MIFARE DESFIRE EV2 2K PLASTIC KEYFOB NON-PROGRAMMED
LNL-EV22KNPMG	MIFARE DESFIRE EV2 2K PVC CARD WITH MAGSTRIPE. NON-PROGRAMMED
LNL-EV28KNP	MIFARE DESFIRE EV2 ISO COMPOSITE 8K 13.56 MHZ - NON-PROGRAMMED
LNL-EV28KNPMG	MIFARE DESFIRE EV2 8K PVC CARD WITH MAGSTRIPE. NON-PROGRAMMED
LNL-EV28KXNP	DUAL TECHNOLOGY - MIFARE DESFIRE EV2 ISO COMPOSITE WITH PROXIMITY CHIP CARD - PRE-PROGRAMMED PROXIMITY "REQUIRES SPECIALTY CREDENTIAL ORDER FORM) AND NON-PROGRAMMED 13.56 MHz (APPLICATION ID, KEYS AND BADGE ID).

As a company of innovation, UTC Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit UTC Fire & Security online or contact your sales representative.

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