Product number: 17105

NFC tag ABS - 40 x 32 mm - MIFARE DESFire EV3 4k - 4096 byte - black | black



Product information

The plastic key fob is equipped with the third generation of the MIFARE DESFire chip. Compared to its predecessors, the chipset offers higher performance with greater read range and improved transaction speed, and its high security features make it particularly suitable for smart city applications, access control or customer card systems.

Short description

- ABS material, rigid
- Format: 40 x 32 mm, oval
- Indoor and outdoor application
- Ambient temperature from -25 to +70 degrees
- NXP MIFARE DESFire EV3 4k (MF3D43) - 4k (4096 Byte)

Product description

NFC product

The NFC tag is made of a durable and waterproof ABS material and has a format of 40 x 32 mm with a material thickness of 4.3 mm. The keychain has a metal ring through which it can be easily attached. Due to the robust plastic material, the ABS pendant is waterproof and is therefore ideal for both indoor and outdoor use.

NFC chip

The ABS tag is equipped with the original MIFARE DESFire EV3 4k (MF3D43). The chip offers full backward compatibility with the MIFARE DESFire EV1 and MIFARE DESFire EV2. The MIFARE DESFire series is intended for the realization of applications with high security requirements and offers corresponding security functions that enable the protected storage of data on the chip. The MIFARE DESFire EV3 series (MF3Dx3) reflects NXP's efforts to continuously improve the level of security. For example, the chip offers new features such as a timer for transactions to effectively prevent man-in-the-

middle attacks. In addition, it inherits from the NTAG DNA series the ability to hash NDEF messages.

The MIFARE DESFire EV3 4k has a total capacity of 4096 bytes and has a 7-byte UID. The NFC chip can be written up to 1,000,000 times and has a data retention of 25 years. The chip is Common Criteria (EAL5+) certified and offers 3DES or AES128 compliant encryption, among other features. The MIFARE DESFire EV3 4K is compatible with all NFC-enabled terminals. Due to the special functions, special hardware (locking system) or software (app) is usually required for use. Feel free to contact us to clarify compatibility with your application.

- Total capacity: 4096 bytes
- Free memory: -
- Usable memory NDEF: -

Product properties

Product number	17105
Antenna format	22 mm
Functions	Write protection , UID ASCII Mirror , 32-bit Password , 24-bit Counter , ASCII Mirror , 7 Byte UID , ECC-based original signature , true anticollision
Dimensions	40 x 32 mm (W x H)
Frequency	13.56 MHz
Available colours	black , blue
Material thickness	4,3 mm (T)
Chip standards / ISO Norm	ISO/IEC 7816-4 , ISO/IEC 14443A
Data transfer rates	106 kbit/s , 848 kbit/s
Storage temperature	Min -55°C - Max +125°C
Operating temperature	Min -25°C - Max +70°C
Detail colour	black
Number of write operations	1.000.000 Mal
Colour category	black
Data retention	25 years
Material	ABS
Compatibility	to NFC-enabled smartphones: 100%
Product form	oval
Weight	2,5 g
Antenna	Copper

Chip	MIFRAE DESFire EV3
Type	Keyfob
Delivery options	single
Memory	4096 Byte
NFC Forum Type	NFC Forum type 4
Water resistance	waterproof (IP67)

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