Product number: 17001

NFC tag ABS - 40 x 32 mm - MIFARE DESFire EV3 8k - 8192 byte - blue | blue



Product information

Due to the integration of the MIFARE DESFire EV3 8k, the robust NFC tag ABS is often used in industry in areas with high security requirements, for example in access control or locking systems.

Short description

- ABS material, rigid
- Format 40 x 32 mm, oval
- Indoor and outdoor use
- Ambient temperature from -25 to +70 degrees
- NXP MIFARE DESFire EV3 8k (MF3D83) - 8k (8192 Byte)

Product description

NFC product

The NFC tag is made of blue ABS material and has a size of 40 x 32 mm with a material thickness of 4.3 mm. The NFC tag has a metal ring which makes it easy to attach. Due to the robust plastic material, the ABS tag 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 8k (MF3D83). The chip offers full backward compatibility to 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, which 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. Furthermore, it inherits from the NTAG DNA series the possibility to provide NDEF messages with a hash value.
The MIFARE DESFire EV3 8k has a total capacity of 8192 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 8K is compatible with all NFC-enabled terminals. Due to the special functions, special hardware (locking system) or software (app) is usually required for use. Please contact us to clarify the

compatibility with your application.

- Total capacity: 8192 bytes
- Free memory: -
- Usable memory NDEF: -

Product properties

Product number	17001
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)
Memory	8192 Byte
Frequency	13.56 MHz
Available colours	black , blue
Chip standards / ISO Norm	ISO/IEC 7816-4 , ISO/IEC 14443A
Material thickness	3,6 mm (T)
Ambient temperature	-25 to 70 degrees
Data transfer rates	106 kbit/s , 848 kbit/s
Storage temperature	Min -55°C - Max +125°C
Detail colour	blue
Operating temperature	Min -25°C - Max +70°C
Number of write operations	1.000.000 Mal
Data retention	25 years
Material	ABS
Compatibility	to NFC-enabled smartphones: 100%
Product form	oval
Weight	2,5 g

Colour category	blue
Antenna	Copper
Chip	MIFRAE DESFire EV3
Type	Keyfob
Delivery options	single
NFC Forum Type	NFC Forum type 4
Water resistance	waterproof (IP67)

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