

Product number: 68030

NFC Card PVC - 85,6 x 54 mm - NTAG413 - 160 Byte - white



Product information

The PVC NFC card with the NTAG413 is recommended due to its advanced security function based on the cryptography standard AES for scenarios in which it must be ensured that the tag has actually been called up without requiring an additional app on the end device, such as in lotteries.

Short description

- PVC material, flexible
- Format 85,6 x 54 mm
- Indoor and outdoor use
- Ambient temperature from -20 to +70 degrees
- NXP NTAG413 (NTAG413) - 160 Byte (NDEF: 121 Byte)

Product description

NFC product

The white NFC card is made of PVC and has a format of 85.6 x 54 mm with a material thickness of 0.86 mm. It has a smooth surface and fits easily into common wallet compartments for cards due to its typical credit card format. The PVC material of the card is flexible and waterproof at the same time and is therefore perfectly suitable for indoor as well as outdoor use.

NFC chip

The PVC card is equipped with the original NXP NTAG413, which brings additional features to enable advanced use cases. To this end, the chipset supports AES-secured content authentication as well as the Secure Unique Message Feature (SUN) for generating a unique string (HASH) based on a secret key. The generated string can be appended to a stored NDEF URL, for example, and can then be verified on the server side. The basis for this is the previously configured shared secret. The full potential of the chipset can therefore only be exploited with the appropriate infrastructure.

The NTAG413 has a total capacity of 160 bytes (free memory 128 bytes), of which usable memory in the NDEF is 121 bytes. Each individual chip has a unique serial number (UID) consisting of 7 bytes (alphanumeric, 14 characters). The NFC chip can be written up to 200,000 times and has a data retention of 50 years. Of course, the NTAG413 also has the standard features of the NTAG series in the form of the UID ASCII Mirror Feature, which allows the tag's UID to be appended to the NDEF message, as well

as an integrated NFC counter that automatically increments when read. Both of these features, as well as the SUN feature, are not enabled by default. The NTAG413 is compatible with all NFC-enabled smartphones as well as with all ISO14443 devices.

- Total capacity: 160 byte
- Free memory: 128 byte
- Usable memory NDEF: 121 byte

Product properties

Product number	68030
Weight	6,1 g
Dimensions	85 x 54 mm (W x H)
Functions	Write protection, UID ASCII Mirror, 32-bit Password, 24-bit Counter, ASCII Mirror, 7 Byte UID, ECC-based original signature, true anticollision, rewritable
Detail colour	white
Frequency	13.56 MHz
Chip standards / ISO Norm	ISO/IEC 7816-4, ISO 14443-4
Ambient temperature	-25 to 70 degrees
Number of write operations	200.000 times
Material	PVC
Storage temperature	Min -55°C - Max +125°C
Operating temperature	Min -25°C - Max +70°C
Colour category	white
Memory	160 Byte (free: 128 Byte, NDEF: 121 Byte)
Product form	rectangular
Material thickness	0,86 mm (T)
Compatibility	to NFC-enabled smartphones: 100%
Available colours	white
Antenna	Aluminium

Data retention	50 years
Delivery options	single
Chip	NXP NTAG413 DNA
Type	Card
Adhesive layer	No
Data transfer rates	424 kbit/s
NFC Forum Type	NFC Forum type 4
Water resistance	waterproof (IP67)

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