Product number: 68984

NFC Sticker PET - 25 mm - NTAG424 - 416 Byte - white

Product information

The NFC sticker with the integrated NTAG 424 DNA chipset is particularly suitable for lotteries, authenticity certification or use in IoT applications due to its additional cryptographic mechanisms.

Short description

- PET material, flexible, self-adhesive
- Not suitable for metallic/conductive surfaces
- Format: 25 mm diameter
- Indoor use, conditionally also outdoor use
- Ambient temperature from -25 to +70 degrees
- NXP NTAG424 (NTAG424) - 416 Byte (NDEF: 249 Byte)

Product description

NFC product

The surface material of the white NFC sticker is made of PET. The material is therefore conditionally waterproof, so that the sticker can withstand moisture even in moderation. The sticker has a diameter of 25 mm and a material thickness of 0.18 mm. The antenna is easily visible from the outside because the sticker is white. The chipset of the sticker is compatible with all current NFC-enabled smartphones.

NFC chip

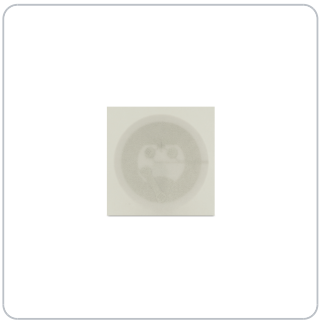
The PET sticker is equipped with the NTAG424 DNA, which is considered the successor of the NTAG413 DNA, adds additional functions and is recommended for use in applications with increased security requirements. To this end, the chipset supports AES-secured authentication of content as well as the Secure Unique Message Feature (SUN) for generating a unique character 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 NTAG424 has a total capacity of 416 bytes, which is divided into two usable memory areas (256 bytes + 128 bytes). The 256 byte memory area provides space for NDEF messages whereas the 128 byte area is for encrypted data. Each 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 during readout. Encryption relies on the AES-128 standard. Other features include an encrypted UID, randomized ID and ECC signature. The advanced features are not enabled by default. The NTAG424 is compatible with all NFC-enabled smartphones as well as all ISO14443 terminals.

- Total capacity: 416 byte
- Free memory: 256 bytes + 128 bytes secure memory
- Usable memory NDEF: 249 byte

Product properties

Product number	68984
Encryption	AES-128 Encryption
Detail colour	white
Frequency	13.56 MHz
Data transfer rates	106 kbit/s
Material thickness	0,17 mm (T)
Number of write operations	200.000 times
Storage temperature	Min -55°C - Max +125°C
Type	Sticker
Dimensions	25 mm Ø
Operating temperature	Min -25°C - Max +70°C
Colour category	white
Chip standards / ISO Norm	ISO/IEC 14443A
Material	PET
Product form	round
Compatibility	to NFC-enabled smartphones: 100%
Weight	1 g
Available colours	white
Chip	NXP NTAG424 DNA
Adhesive layer	Yes
Memory	416 Byte (NDEF: 256 Byte)
Data retention	50 years

NFC Forum Type	NFC Forum type 4

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