

Product number: 17256

RFID/NFC Sticker PET - Dual Frequency - 53 x 33 mm - EM4423 - 2080 Bit - white

Produktbild Cover

Product information

The RFID/NFC sticker with the EM4423 chip is the right choice for anyone looking for a compact solution for digital product linking and automated product identification. Content such as web links or product information can be called up directly on the smartphone via NFC - for example for operating instructions or marketing purposes. At the same time, the RFID function enables efficient recording and identification of goods in merchandise management, for example for stock checks or internal processes.

Short description

- PET material, flexible, self-adhesive
- Not suitable for metallic/conductive surfaces
- Format 53 x 33 mm
- Indoor use, limited outdoor use
- Ambient temperature from -40 to +85 degrees
- EM4423 - 2080 Bit

Product description

NFC product

The white dual frequency sticker is made of PET, a flexible plastic material that adapts well to slightly uneven surfaces. It has limited moisture resistance and is suitable for applications where occasional contact with moisture may occur. It is not completely waterproof, so use in dry environments is recommended. The sticker has a format of 53 x 33 mm with a material thickness of 0.2 mm. This compact size is ideal for highly visible labeling on a wide variety of surfaces.

NFC chip

The EM4423 is an NFC and UHF transponder chip that has been designed for both NFC and HF as well as UHF applications. This means that it can be read by both NFC-enabled smartphones and RFID readers, for example. Both interfaces access a shared memory that can be flexibly divided up. A 32-bit ID, which is contained in both the NFC UID and UHF TID, ensures that the transponder is uniquely identifiable for all end devices and is ideal for product authentication and inventory management, among other things.

Each chip has a unique 96-bit TID (UHF) and a 7-byte UID (NFC), which enable unique identification. The memory areas are flexibly configurable and can be read and written via both NFC and UHF interfaces. The first NFC contact can be logged automatically using the integrated access counter (ACCESS Counter).

For increased security, the EM4423 offers various protection mechanisms, including a password-protected memory with a 32-bit access password and a data protection function that allows certain memory areas to be hidden from unauthorized access. Certain memory segments can be permanently locked to prevent unwanted changes.

The EM4423 is fully compatible with NFC Forum Type 2 as well as the ISO/IEC 14443A, ISO/IEC 18000-63 and EPC Gen2v2 standards, allowing it to be used with NFC-enabled smartphones as well as industrial HF and UHF readers. The memory capacity can be used flexibly, with up to 1920 bits available for NFC data and up to 160 bits for UHF data.

The memory structure of the chip comprises 2080 bits of configurable memory, which can be flexibly divided up for HF and UHF user memory, EPC/UII coding and digital signatures. In addition, the chip has a 64-bit UID (HF) and a 96-bit TID (UHF) for unique identification purposes.

The combination of NFC and RFID technology opens up a wide range of possible applications. The integration of NFC makes it possible to link digital content such as URLs directly to a product. While RFID is mainly used for contactless identification and automated recording of products in logistics and warehouse processes, NFC supplements these functions with a user-oriented interface on mobile devices.

- Total capacity: 2080 bit configurable memory

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Product properties

Product number	17256
Weight	0,6 g
Antenna format	50 x 30 mm
Operating temperature	Min -40°C - Max +85°C
Storage temperature	Min -50°C - Max +125°C
Chip	EM4423
Chip standards / ISO Norm	EPC™ Gen2v2, ISO/IEC 18000-63, ISO/IEC 14443A
Frequency	860 - 960 MHz, 13.56 MHz
Memory	2080 Bit
Dimensions	53 x 33 mm (B x H)
Material thickness	0,2 mm (T)
Data transfer rates	106 kbit/s
Type	Sticker
Data retention	10 years
Number of write operations	100.000 times
Colour category	white
Detail colour	white glossy
Product form	rectangular
Material	PET
Compatibility	to NFC-enabled smartphones: 100%
Further links	ntag
Adhesive layer	Yes

Antenna	Aluminium
NFC Forum Type	NFC Forum type 2

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