



ID-A517 - NXP NTAG® 424 DNA

NFC Inlay and Label

IC Speciality

Identiv's ID-A517 - NXP NTAG 424 DNA is a versatile solution for mass market applications like retail, electronics, food and beverages, and pharma. It utilizes the secure NXP NTAG 424 DNA chip, offering advanced security for IoT and NFC applications. The tags leverage the native security mechanism within the attack-resistant certified chip and are designed for use in secure IoT applications, including anti-counterfeiting for brand protection, document authentication, secure supply chain traceability (i.e., product origin and provenance), authorized data access, and trusted customer engagement, like loyalty programs.

The ID-A517 - NXP NTAG 424 DNA takes secure product authentication to another level and works with all NFC devices, offering real-time authentication and enhanced privacy features.

Key Features

- For use in secure IoT applications, including **advanced anti-counterfeiting** for brand protection, **document authentication, secure supply chain traceability**, **authorized data access**, and **trusted customer engagement**
- Unique data authentication upon every tap, using **5 customer-defined AES keys** for **advanced cryptographic functionalities**, including CMAC with optional encrypted data, SUN for secure authentication, mutual authentication, and secure access to NDEF and extra data files
- IC NXP NTAG 424 DNA is hardware-certified against **Common Criteria® EAL4 for hardware and software**.
- Available as **dry inlay, wet inlay, or label**

Frequency

- NFC 13.56 MHz

Antenna Dimensions

- Ø 23 mm

Chip

- NXP NTAG® 424 DNA

International Standards

- NFC Forum Type 4 Tag
- ISO/IEC 14443A

Industries

- NFC
- Gaming and toys
- Electronics
- Pharma and healthcare

Specifications

Format	Dry Inlay	Wet Inlay	Label
Product Part Number	9001012	9001013	9001014
Manufacturing Part Number	I00XXXNE9A23	I00PADNE9A23	L15PADNE9A23
IC	NXP NTAG 424 DNA	NXP NTAG 424 DNA	NXP NTAG 424 DNA
User Memory	416 bytes	416 bytes	416 bytes
Antenna Dimension	Ø 23 mm	Ø 23 mm	Ø 23 mm
Tag Dimensions	Ø 23 mm	Ø 25 mm	Ø 25 mm
ISO/IEC Norm	ISO/IEC 14443A	ISO/IEC 14443A	ISO/IEC 14443A
Frequency	13.56 MHz	13.56 MHz	13.56 MHz
Face Material	-	-	White PET
Thickness	~ 200 µm	~ 300 µm	~ 370 µm
Pitch	30 mm	30 mm	30 mm
Web Width	35 mm	35 mm	35 mm
Operating Temperature	-20°C ~ 70°C (-4°F ~ 158°F), at <60%RH	-20°C ~ 70°C (-4°F ~ 158°F), at <60%RH	-20°C ~ 70°C (-4°F ~ 158°F), at <60%RH
Storage Information	2 years under desiccated condition; 10°C ~ 25°C (50°F ~ 77°F), ≤ 60% RH	1 year under desiccated condition; 10°C ~ 25°C (50°F ~ 77°F), ≤ 60% RH	1 year under desiccated condition; 10°C ~ 25°C (50°F ~ 77°F), ≤ 60% RH

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Care and handling: To minimize static charge and environmental impact, it's crucial to adhere to standard industry practices related to electronics and RFID when handling RFID inlays, as they are sensitive to ESD.

Application: To ensure that this product meets specific requirements, customers/users must thoroughly test it under end-use conditions. Identiv does not claim that the product is suitable for any particular purpose or use. Additionally, Identiv retains the right to modify, supplement, change, or discontinue product offerings at any time without prior notice. While the information presented here is believed to be reliable, Identiv does not guarantee the accuracy or correctness of the data.

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Warranty: Please refer to Identiv standard terms and conditions: <https://www.identiv.com/terms-and-conditions>

