



IDENTIV

ID-A514 - NXP NTAG[®] 424 DNA TagTamper NFC Inlay and Label

IC Speciality

Identiv's ID-A514 - NXP NTAG 424 DNA TT is a versatile solution for mass market applications like retail, electronics, food and beverages, and pharma. It utilizes the secure NXP NTAG 424 DNA TagTamper chip, offering advanced security for IoT and NFC applications, with addition to a tamper-loop feature. 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. With its tamper-loop, it also detects the current opening status of the tagged item.

The ID-A514 - NXP NTAG 424 DNA TT 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**
- Once-opened and current-status detection by **tag tamper feature**
- Available as **dry inlay, wet inlay,** or **label**

Frequency

- NFC 13.56 MHz

Antenna Dimensions

- Ø 25 mm + 42 mm tamper tail (67 x 25 mm total)

Chip

- NXP NTAG[®] 424 DNA TagTamper

International Standards

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

Industries

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

See all of Identiv's RFID tags, inlays, and labels at [identiv.com/products/rfid-tags-inlays-labels](https://www.identiv.com/products/rfid-tags-inlays-labels)

Specifications

Format	Dry Inlay	Wet Inlay	Label
Product Part Number	9001015	9001016	9001017
Manufacturing Part Number	I00XXXNF9025	I01PADNF9025	L15XADNF9025
IC	NXP NTAG 424 DNA TT	NXP NTAG 424 DNA TT	NXP NTAG 424 DNA TT
User Memory	416 bytes	416 bytes	416 bytes
Antenna Dimension	Ø 25mm + 42mm tail (67 x 25 mm total)	Ø 25mm + 42mm tail (67 x 25 mm total)	Ø 25mm + 42mm tail (67 x 25 mm total)
Tag Dimensions	Ø 25mm + 42mm tail (67 x 25 mm total)	75 mm x Ø 30 mm (with security cuts)	75 mm x Ø 30 mm (with security cuts)
ISO/IEC Norm	ISO/IEC 14443-A	ISO/IEC 14443-A	ISO/IEC 14443-A
Frequency	13.56 MHz	13.56 MHz	13.56 MHz
Face Material	-	Clear PET	White PET
Thickness	~ 200 µm	~ 265 µm	~ 295 µm
Pitch	85 mm	85 mm	85 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>

