



ID-Garment-A511-424DNA

NFC Inlay

IC Speciality

Introducing the ID-Garment-A511-424DNA, a robust solution tailored for garment applications. Powered by the secure NXP NTAG 424 DNA chip, this advanced technology ensures top-tier security for IoT and NFC uses. These tags effectively utilize the chip's native security mechanism, certified for its resilience against attacks, making them an ideal choice for secure IoT applications. They serve various purposes, including anti-counterfeiting for brand protection, document authentication, secure supply chain traceability, authorized data access, and seamless customer engagement such as loyalty programs.

These washable tags possess a slight flexibility, making them easily adaptable behind woven or similar clothing patches. Elevating secure product authentication to a new standard, the ID-Garment-A511-424DNA is compatible with all NFC devices, providing 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**.
- Due to its robust structure it is durable and even washable
- Available as **wet inlay**

Frequency

- NFC 13.56 MHz

Tag Dimensions

- Ø 25 mm

Chip

- NXP NTAG® 424 DNA

International Standards

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

Industries

- Beauty and personal care
- Fashion
- Luxury goods
- Sports and events

Applications

- Advanced anti-counterfeiting
- Asset and document tracking
- Secure authentication
- Smart packaging

Specifications

Format	Wet Inlay
Product Part Number	9001063
Manufacturing Part Number	I00PADNE9023
IC	NXP NTAG 424 DNA
User Memory	416 bytes
Antenna Dimension	Ø 23 mm
Tag Dimensions	Ø 25 mm
ISO/IEC Norm	ISO/IEC 14443A
Frequency	13.56 MHz
Face Material	Clear PET
Thickness	~ 560 µm
Pitch	30 mm
Web Width	35 mm
Operating Temperature	-20°C ~ 70°C (-4°F ~ 158°F), at <60%RH
Storage Information	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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