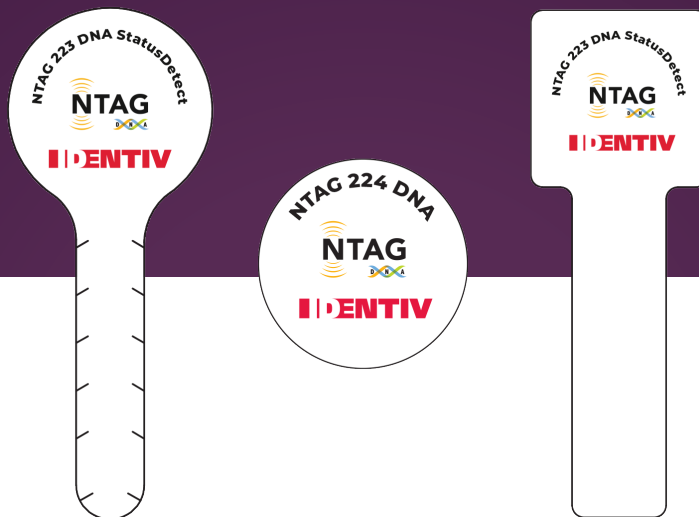


NTAG 22x DNA Portfolio

Security Tags for Product Authentication and Status Sensing



NFC-enabled tags with NXP® NTAG® 22x DNA chips provide advanced IoT security.

Identiv's sophisticated near-field communication (NFC) tag designs based on NXP's new NTAG 22x DNA chip series enable a wide range of security and sensing solutions for customers in healthcare and pharma, retail, smart packaging, supply chain control (e.g., blockchain), industrial applications, and augmented user experiences.

The cutting-edge portfolio secures everyday objects in mobile anti-counterfeit authentication applications and closed-loop systems, tamper proof medications, beverages, and consumables, and senses specific conditions such as moisture, pressure, or fill level powered by an NFC field, all without a battery. The sensing tags with conductive and capacitive capabilities are ideal for open-status-

aware applications enhancing quality assurance along the supply chain, verifying fill levels for refill orders or patient compliance, and wet/dry sensing for smart wound recovery or skin patches.

LA1XADNW9B25: Senses liquid fill levels via capacitive interface, powered by an NFC field, all without a battery

LA1XADNW9025: Conductive tamper detection due to tamperloop, once-open status, and security cuts for easier loop breaking

LA1PADNX9025: Three-pass mutual authentication with AES-128 ensures only authorized readers can access and adjust tag data, plus multiple options in form factors and dimensions

Cryptographic Security

- Certified security IC with AES128 standard cryptography on attack-resistant silicon (CC EAL 3+)
- Secure unique NFC (SUN) message authentication makes taps unclonable, no app required
- Mutual authentication using AES128 protects memory access

Dual-Mode Tamper Detection

- Flexibility to choose between two modes of tamper detection: conductive or capacitive

Simple Passive Sensing

- Ability to sense specific conditions without a battery
- Cost-efficient, easy-to-implement, sustainable NFC solution

IoT Use Cases

- Sensing solution in healthcare and pharma, retail, smart packaging, supply chain control
- Securing solution for medications, beverages, and consumables

Specifications

			
IC Code	NXP NTAG 223 DNA StatusDetect	NXP NTAG 223 DNA StatusDetect	NXP NTAG 224 DNA
RF Protocol	ISO/IEC 14443A		
Thickness	~120µm		
EEPROM Size	304 bytes		
User Memory	144 bytes	144 bytes	208 bytes
Capacitance	50pF		
Inlay	HF 13.56 MHz Identiv Smart Inlays		
Label Size	80 x Ø 25 mm	67.2 x Ø 25 mm	Ø 25 mm
Material	Alu etched on PET substrate		
Operating Temperature	-20°C ~ 70°C (-4°F ~ 158°F), at <60%RH (according to and limited by chip specification)		
Storage Life	1 year under desiccated condition; 10°C ~ 25°C (50°F ~ 77°F), ≤ 60% RH		
ESD Voltage Immunity	≤ ±2kV, human body model (HBM), according to IC specification		
Product Part Number	LA1XADNW9B25	LA1XADNW9025	LA1PADNX9025