

NTAG DNA sticker - Circular 29mm



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An NTAG DNA C29 tag from NXP can be used to automatically connect to web services, without the need for a dedicated app. Using these tags, together with web-based authentication services, you can now set up AES-128 tag authentication, use three-pass mutual authentication (where only an authorised host can access the tag), and establish a secure channel for data transmission.

This NFC sticker is a 29mm diameter sticky label that operates at 13.56 MHz wireless frequency and contains 256 bytes of usable read/write space for NDEF data. Based on the NTAG424 chip from NXP, this sticker provides even higher security than the popular NTAG213 NFC tags, on top of their anti-cloning features and permanent memory write lock. This is down to NXP's new Secure Unique NFC (SUN) message feature, which adds unique authentication into every tap, by counting every tap, and the elliptic-curve-based 'originality signature' that identifies both the tag and data origin. It is a common criteria EAL4 certified device

Subject to memory size, this sticker can store:

- Any type of URI including URLs, telephone numbers, SMS, e-mail and geo-locations

- Plain text or a combination of plain text and a URI
- vCards and signatures

Typical application areas include:

- Web-based product authentication, with or without an application installed in the NFC reader device
- Access management
- Smart posters, advertising displays, kiosks and bus stop advertisements
- Handouts, brochures, leaflets, flyers and magazines
- Contactless ID/ticketing
- Embedding in devices
- Document authenticity
- Loyalty and payment

This sticker is NFC forum Type 4 compliant. It has very low power requirements and typically operates at a distance of up to 10cm, depending on the power provided by the NFC-enabled device or reader. It has been designed to work seamlessly with Android (without an app) or iOS11 (with an app). The NTAG DNA technology is more robust than earlier NTAG labels, retaining data for 50 years and able to endure 200,000 write cycles.

Supplied as white self-adhesive plastic labels.

Pricing is per sticker.

Please note - NFC stickers will generally not work if attached or very near to a metal surface, unless you use one of our all surface/on metal products.

We offer various NFC encoding, printing & customising services - please [contact us](#) for details!

High security NFC contactless sticker.

256 bytes of usable memory. 29mm diameter self-adhesive label.

To buy, visit:

<https://www.smartcardfocus.com/shop/ilp/id~880/ntag-dna-sticker-circular-29mm/p/index.shtml>

This Product Briefing has been produced by [Dot Origin Ltd](#), the smart card experts behind [SmartcardFocus.com](#). If you have a query email sales@smartcardfocus.com or call us on +44 (0)1428 685250.

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Technical Specifications

Standards: ISO/IEC 14443 A -2, -3 and -4 compliant, ISO 7816-4 compliant

Operating distance: Up to 100mm

Operating frequency: 13.56MHz

Memory: 32 bytes for the capability file + 256 bytes data file for NDEF message + 128 bytes for protected data

Security: Field programmable, read-only locking function

Write endurance: 200,000 cycles

Data retention: 50 years

Cryptography: AES authentication, optionally LRP wrapped

Chip serial number: 7 bytes unique ID (UID)

Manufacturer's part number: NT4H2421Gx NTAG 424 DNA

Manufacturer: NXP