



Joaneo

Printing Smart Inlays

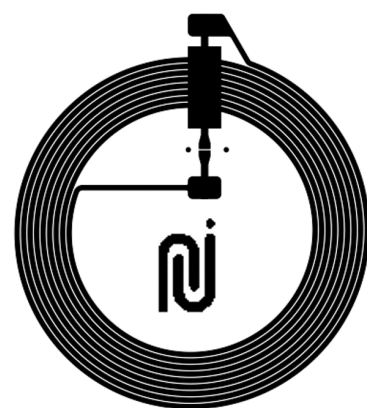
V-TAG 36



The V-Tag 36 is a paper-based, sustainable NFC tag designed to enhance brand and product experiences in retail and e-commerce through fast, reliable smartphone connectivity. The eco-friendly standard version uses NXP's NTAG213TT chipset for consumer engagement across various industries like FMCG retail, wine & spirits, healthcare, and cosmetics. An optional version is available for high-security applications such as anti-counterfeiting and secured document authentication using the NXP NTAG424DNA chipset. The versatile design also allows for innovative special applications using SIC's 43NT chipset for additional sensing capabilities.

GENERAL SPECIFICATIONS

- Frequency: 13.56 MHz
- IC: NXP NTAG 213 TT - NFC T2T compliant IC. Alternative ICs: NXP NTAG 424 DNA, SIC SIC43NT
- Protocols: ISO/IEC 14443-A, 15693 compliance, and NFC Forum Type 2 Tag
- Substrate: Paper (e.g., wood-free cast-coated white high-gloss on one side, 100% PEFC certified) and PET. Alternative substrates are available upon request
- Product available as wet inlay, wet white, or antenna only



APPLICATIONS

E-commerce
of FMCG

Customer
engagement

Web
authentication
& anti-
counterfeiting

Secured
documents

Sensor
applications

PRODUCT CHARACTERISTICS

- Antenna material: Conductive silver ink
- Finishing options: Dry inlays, wet inlays to your specific adhesive requirements upon request
- Customization upon request
- Final inspection: 100% tested, faulty tags marked

RFID CHIP SILICON

Operating frequency: 13.56 MHz

Operating temperature range: 25 °C up to +70 °C

Read sensitivity: -21 dBm

Write sensitivity: -16 dBm*

Automatic NFC counter triggered at read command

AES-128 crypto for NFC web based authentication

* data based on NXP NTAG213TT

MECHANICAL DIMENSION

Antenna Size: 36 mm / 1.42 inch (ø, diameter)

Label Size: 40 x 40 mm / 1.57 x 1.57 inch

LIFECYCLE MANAGEMENT

100% recyclable with 75% - 95% of material components that can be recovered (paper-based version)

ISO 59040 Product Circularity Datasheet (PCDS) available upon request for more information



JOANEO BY VICTOR BUCK SERVICES



IVY Building, 13-15, Parc d'Activités
L-8308 Capellen Luxembourg

Rue de l'Industrie,
L-3895 Mondcrange Luxembourg



(+352) 49 98 66 1



contact@joaneo.com



www.joaneo.com



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