

## Description

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Target applications include Out-of-Home and print media smart advertisement, SoLoMo applications, product authentication, NFC shelf labels, mobile companion tags.

Target use cases include Out-of-Home smart advertisement, product authentication, mobile companion tags, Bluetooth or Wi-Fi pairing, electronic shelf labels and business cards.

### Features and benefits

Chip: NXP Ntag213 (With Adhesive)

Size: 20×10mm

Induction distance: 1-10 (cm)

Memory: 144 (bits)

Reading and writing time: 100 (MS)

Packaging material: PET

Erase life: 100000 (times)

Contactless transmission of data and supply energy

Operating frequency of 13.56 MHz

Data transfer of 106 kbit/s

Data integrity of 16-bit CRC, parity, bit coding, bit counting

Operating distance up to 100 mm (depending on various parameters as e.g. field strength and antenna geometry)

7-byte serial number (cascade level 2 according to ISO/IEC 14443-3)

UID ASCII mirror for automatic serialization of NDEF messages

Automatic NFC counter triggered at read command

NFC counter ASCII mirror for automatic adding the NFC counter value to the NDEF message

ECC based originality signature

Fast read command

True anticollision

50 pF input capacitance

EEPROM

180, 540 or 924 bytes organized in 45, 135 or 231 pages with 4 bytes per page

144, 504 or 888 bytes freely available user Read/Write area (36, 126 or 222 pages)

4 bytes initialized capability container with one time programmable access bits

Field programmable read-only locking function per page for the first 16 pages

Field programmable read-only locking function above the first 16 pages per double page for NTAG213 or per 16 pages for NTAG215 and NTAG216

Configurable password protection with optional limit of unsuccessful attempts

Anti-tearing support for capability container (CC) and lock bits

ECC supported originality check

Data retention time of 10 years

Write endurance 100.000 cycles

### Applications

Smart advertisement

Goods and device authentication

Call request

SMS □ Call to action

Voucher and coupons

Bluetooth or Wi-Fi pairing

Connection handover

Product authentication

Mobile companion tags

Electronic shelf labels

Business cards











