# NFC Cards: Custom, Blank & Printed NTAG213 Cards

NFC cards are 13.56 MHz tap-to-interact credentials — an NTAG chip and antenna laminated in a card body — programmed to open a link, share a contact, join Wi-Fi, or authenticate a product.

## NFC card specifications at a glance

| Item | NFC card |
|---|---|
| Frequency and interface | 13.56 MHz, ISO/IEC 14443 Type A |
| NFC Forum tag type | Type 2 (NTAG213/215/216); Type 4 (NTAG 424 DNA, and DESFire EV2/EV3 when formatted for NDEF). MIFARE Ultralight EV1 and C are supplied for readers and ticketing systems, not as phone tags |
| Standard chip | NTAG213; NTAG215, NTAG216 and NTAG 424 DNA on request |
| Standard size | ID-1 (CR80), 85.6 × 54 mm; other sizes and die-cut shapes confirmed in the quotation |
| Thickness | ISO/IEC 7810 ID-1 nominal 0.76 mm; inlay cards are often slightly thicker, and the exact figure is confirmed in the quotation against your card printer |
| Card bodies | PVC, PET/PETG, paper, wood, PLA, stainless steel or anodised aluminium |
| Printing and finishing | Offset (CMYK) and Pantone printing, silkscreen, UV printing, laser engraving, gloss or matte finish, spot UV, foil, numbering, QR code and barcode |
| Delivery state | Blank, NDEF-formatted, encoded with one URL, or encoded per card from your data file; UID list for numbered cards |
| Phone read distance | A touch or near-touch; depends on the phone's antenna position and the card antenna |

## Which chip should an NFC card use?

| Chip | NFC Forum type | User memory | Phone behaviour | Best use |
|---|---|---|---|---|
| NTAG213 | Type 2 | 144 bytes | Read natively on iPhone and Android | A URL or review link; the usual choice |
| NTAG215 | Type 2 | 504 bytes | Read natively on iPhone and Android | Longer links or several records |
| NTAG216 | Type 2 | 888 bytes | Read natively on iPhone and Android | The most data stored on the card, for offline use |
| MIFARE Ultralight EV1 | Not sold as a phone tag (ISO/IEC 14443 Type A chip) | 48 or 128 bytes | Made for readers and ticketing systems; phone reading depends on the phone and app, so confirm on a sample | Low-cost event tickets and passes checked at the gate readers |
| MIFARE Ultralight C | Not sold as a phone tag (ISO/IEC 14443 Type A chip) | 144 bytes | Made for readers and ticketing systems, which run its 3DES authentication; phone reading depends on the phone and app, so confirm on a sample | Tickets that need a simple authentication step |
| NTAG 424 DNA | Type 4 | 416 bytes (256-byte NDEF file) | The NDEF link opens on iPhone and Android | Authentication: AES-128 and a unique, verifiable URL on every tap |
| MIFARE Classic 1K / 4K | Not an NFC Forum type | 1 KB or 4 KB, sector-based | Not read by iPhone; only some Android phones | Access control and existing reader systems, not phone taps |
| MIFARE DESFire EV2 / EV3 | Type 4 when formatted | 2 to 32 KB by generation and part | Phones read an NDEF application if one is created | Multi-application access and campus systems that specify DESFire |

## Ordering

- Free standard samples; customised samples carry a setup fee.
- Standard lead time is 2–3 weeks.
- Quote-only pricing—send your quantity for a quotation.
- Printing, numbering and encoding options are available for the selected product and material.

## Contact

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Specifications are supplied for guidance; confirm the exact chip, material and encoding for your project.