



## NXP NTAG® 213 NFC Card

EP - NFC



The NXP NTAG® 213 NFC (Near Field Communication) card is a type of contactless smart card developed by NXP Semiconductors.

The NXP NTAG® 213 NFC card can be effectively used in access control systems due to its NFC capabilities and security features.

NFC technology enables contactless communication between the card and NFC-enabled readers. This means users can gain access to secure areas simply by holding their NFC card close to the reader, without the need to physically insert or swipe the card.

NFC technology offers convenience for users and administrators alike. Users can easily carry NFC cards in their wallets or attach them to keychains, eliminating the need to remember or carry physical keys or access cards.

Overall, the NXP NTAG® 213 NFC card is a reliable and secure solution for access control systems, offering convenience, flexibility, and robust security features for both users and administrators.

## FEATURES AND BENEFITS

### Specification

- Contactless transmission of data and supply energy
- Operating frequency of 13.56 MHz, ISO/IEC 14443 Type A
- 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 bytes organized in 45 pages with 4 bytes per page
- 144 bytes freely available user Read/Write area (36 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
- 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

### Security

- Manufacturer programmed 7-byte UID for each device
- Pre-programmed Capability container with one time programmable bits · Field programmable read-only locking function
- ECC based originality signature
- 32-bit password protection to prevent unauthorized memory operations
- Limiting negative verification attempts