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NFC Tags Specs

Compare different NFC Chips to better understand which one to choose between MIFARE®, NTAG®, ICODE®, based on memory, compatibility, and other.

- [Technical Specifications of NTAG® NFC ICs](#)
- [Technical Specifications of ST25TA NFC ICs](#)
- [Technical Specifications of ST25TV NFC ICs](#)
- [Technical Specifications of ICODE® SLIX ICs](#)
- [Technical Specifications of other NFC ICs](#)
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You can find different types of NFC Chips on Shop NFC, such as: NTAG® Series, MIFARE Classic®, MIFARE Ultralight®, MIFARE® DESFire®, MIFARE Plus®, ST25TA and ICODE® Series.

FREE DELIVERY
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TECHNICAL INFO

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In general, **NTAG® Series ICs are compatible with every NFC mobile device.** The Operative Frequency of NFC Tags is **13.56 MHz**.

NFC Tags does not work on metal surfaces. If you need to use the NFC Tags close to metal, you should choose the **On-Metal NFC Tags** which are specially made for this purpose.

To better understand the technical characteristics of the different types of NFC Tags, please refer to the following tables, which will help you to better understand what kind of Tags you need.

See Also:

- the [Apps you can use to write an NFC Tag](#)
- [smartphones and tablets compatible with NFC tag](#)
- [NFC FAQ](#)
- how to [choose NFC Tags](#)
- how to [choose an NFC Reader](#)

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NFC Reader Guide
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NTAG21x Features
DESFire EV1 vs EV2 vs EV3
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Invoice

Technical specifications of NTAG® NFC ICs (ISO 14443-A)

NTAG213 - NTAG215 - NTAG216

	NTAG213 / NTAG213 TT	NTAG215	NTAG216
Total capacity (1)	180 bytes	540 bytes	924 bytes
Available memory (2)	144 bytes	504 bytes	888 bytes
URL length (3)	132 characters	492 characters	854 characters
Text length (4)	130 characters	490 characters	852 characters
V-Card Fields (5)	4-5	9-10	10+
Data retention	10 years		

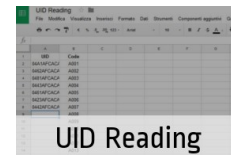


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Tag Over



Read/write endurance	100,000 cycles		
Why choose this chip	Great chip, very versatile. It is expected that will replace the predecessor NTAG203.	Good memory, even if smaller than NTAG216.	The latest chip, with higher capacity and high scan strength. Perfect for V-Card or other uses that require high storage.
NFC Forum Specifics (6)	NFC Forum Type 2		
Encryption (7)	Not supported		
Serial Number (UID) (8)	Yes (7 bytes)		
Compatibility (9)	Compatible with all NFC Smartphones, NFC Tablets, and ISO14443-A NFC Readers (check software compatibility)		
Password Protection (10)	Yes		
Scan Counter	Yes		



NTAG203 - NTAG210 - NTAG210μ - NTAG212

	NTAG203	NTAG210 / NTAG210μ	NTAG212
Total capacity (1)	168 bytes	80 bytes	164 bytes
Available memory (2)	137 bytes	48 bytes	128 bytes
URL length (3)	132 characters	41 characters	122 characters
Text length	130		120



(4)	characters	39 characters	characters
V-Card Fields (5)	4-5	1-2	3-4
Data retention	5 years	10 years	
Read/write endurance	10,000 cycles	100,000 cycles	
Why choose this chip	Obsolete. Replaced by Ntag213.	Very cheap. Ideal for URLs and short codes, or where only UID is needed.	Unusual chip. It can be used in marketing or where more memory is required than NTAG210.
NFC Forum Specifics (6)	NFC Forum Type 2		
Encryption (7)	Not supported		
Serial Number (UID) (8)	Yes (7 bytes)		
Compatibility (9)	Compatible with all NFC Smartphones, NFC Tablets, and ISO14443-A NFC Readers (check software compatibility)		
Password Protection (10)	No	Yes / No	Yes
Scan Counter	No		

NTAG 413 DNA - NTAG 424 DNA

	NTAG413 DNA	NTAG424 DNA
Available memory (2)	128 bytes	256 bytes
Communication rate	424 kbps	848 kbps
Data retention	50 years	
Read/write		

