

BayLan RFID Mifare NFC Card

BCRMNW326-213 144bytes

BCRMNW327-216 888bytes



Near Field Communication (NFC) is a wireless communication technology a bit like WiFi or Bluetooth. It allows the transfer of data between two device, such as a mobile phone and NFC Tag. Typically, NFC is used to pass data from one device to other. So might use NFC to pass data from an NFC enabled mobile phone to another NFC enabled mobile phone, from a mobile phone to a payment terminal or form an NFC Tag a mobile phone.

A very rapidly growing number of things. Current applications include contactless payments, marketing and advertising, security and access control, product identification, location identification, mobile phone task launcher apps, events and many, many more.

And the great part is that all of these applications require just an NFC enabled mobile phone to get started.

Different NFC Chips have different sizes of memory and different memory configuration. This affects the amount of information can store on certain chips but it also affects how the chip can be locked and other very important factors.

FEATURES

- **Memory Size :** This is the total amount of memory within the chip. Some of this will be one time programmable (OTP), some will be for locking features and so on. Most will be for user read/write.
- **User Memory:** This is generally the bit that's important. This is the available memory to store data.
- **URL Length:** This is generally the maximum length of URL and can store on this chip, excluding the http://
- **Universal Compatibility:** Can be used with all current NFC enabled mobile phones.
- **NFC Forum Compliant:** Compatible with NFC Forum specifications.
- **Serial Number:** Chip contains a unique serial number for identification purposes. Note that a specific 'App' would be required to access this information.
- **Cryptography:** A security feature on the chip which can help prevent cloning and unauthorized data access. This is a very advanced feature which require specialist knowledge and is rarely required under regular use.
- **ScanStrength:** The average we ScanStrength of current products sold. This is an indication of the relative scanning distances of the chip.

Specifications are subject to change without prior notice with advancement in technology.

NFC Chips

Tag Type	Mifare Classic	Ultralight	Ultralight C	NTAG203	NTAG210	NTAG213	NTAG215	NTAG216	Desfire 4K	Topaz512
Introduced	1994	2001	2008						2006	
On-chip Data Storage	1k, 4k or 320 bytes	512 bits	1536 bits	1344	640	1440	4320	7392	2k, 4k, 8k bytes	4096
Memory Size (bytes)	1024	64	192	168	80	180	540	924	4k	512
User Memory (bytes)	716	48	148	144	48	144	504	888	4094	454
Max URL (characters)	710	41	132	132	41	132	492	854	2000	449
Application	Resuable Fare Cards	Disposable Tickets / No Security	Low Cost application using DES encryption						Reusable cards with DES encryption	
Best Use	Legacy applications only. Not recommended for general mobile phone NFC usage.	Cost effective chip for short URLs in products (Wristbands, Keyfobs, etc).	Specialist applications requiring encryption only. Poor scan distance with mobile phones.	Popular established all-round NFC chip. Cost-effective with good memory capacity.	Cheap, general NFC use with short URLs. Limited Availability.	Next generation chip, will eventually replace NTAG203. Great Scan Strength.	The 'one in the middle'. Good memory but limited availability compared to the NTAG216.	Large memory and full feature set. Higher price makes it suitable for Vcard and larger memory use only.	Specialist applications requiring strong data encryption only.	Universally compatible chip available in only a limited number of products. Useful for vCards or small data storage.
Universal Compatibility	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NFC Forum Compliant	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Scan Counter	x	No	x	No	No	Yes	Yes	Yes	x	x
32 bit Password	x	No	x	No	Yes	Yes	Yes	Yes	x	x
Serial Number	4 or 7 bytes	7 bytes	7 bytes	7 bytes	7 bytes	7 bytes	7 bytes	7 bytes	7 bytes	4 bytes
Cryptography	Yes	No	Yes	No	No	No	No	No	Yes	No
Scan Strength	Medium	High	Low	High	High	Very High	High	High	Medium	High

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