

GLOBAL TAG OVERVIEW CHIP

Main chip type available in all different frequencies and standard RFID



LF 125KHz Chip Available

Product Features	TK4100	EM4200	T5577	HitagS256	HitagS2048
Manufacturer	Compatible	Electronic Marin	Temic (Atmel)	NXP	NXP
Frequency	125KHz	125KHz	125 and 134,2KHz	125 and 134,2KHz	125 and 134,2KHz
Standard	NO	NO	Configurable for ISO11784/785	Configurable for ISO11784/785	Configurable for ISO11784/785
UID Size	64bit	64bit	128bit	32bit	32bit
User Memory	None	None	224bit	256bit	2048bit
Organisation	ND	ND	224bit	8blocks x 4Byte	64blocks x 4byte
Write Protection	ND	ND	Blockwise	Blockwise, Multi User Mode	Blockwise, Multi User Mode
Access Key	ND	ND	32bit	48bit	48bit
Write Endurance (cycles)	ND	ND	100.000	100.000	100.000
Data Retention (years)	10	10	20	10	10

Note

- EM4100 (Unique) and EM4102 have been replaced by EM4200 chip
- Other chip are available on demand (MOQ to be defined)



HF ISO15693 Chip Available

Product Features	I-Code SLIL	I-Code SLI X	I-Code SLI S	LRi2K	LRiS64K	TI 2048bit
Manufacturer	NXP	NXP	NXP	STM	STM	Texas Instrument
Frequency	13,56MHz	13,56MHz	13,56MHz	13,56MHz	13,56MHz	13,56MHz
Standard	ISO15693	ISO15693	ISO15693	ISO15693	ISO15693	ISO15693
UID Size	64bit	64bit	64bit	64bit	64bit	64bit
User Memory	256bit	1024bit	2048bit	2048bit	65536bit	2048bit
Organisation	4pages each 4blocks x 4bytes	32blocks x 4bytes	16pages each 4blocks x 4bytes	64blocks x 4bytes	64blocks x 128Byte	64blocks x 4byte
Write Protection	Blockwise	Blockwise	Blockwise	Yes	yes	
Access Key	32bit	-	-	-	32bit	
Eas for Library	Yes, using AFI	Yes, using AFI	Yes, using AFI	Yes, using AFI	Yes, using AFI	
Write Endurance (cycles)	100.000	100.000	100.000	100.000	100.000	100.000
Data Retention (years)	10	10	40	20	10	10

Note

- Other chip are available on demand (MOQ to be defined)



HF ISO14443 Chip Available

Product Features	Mifare Ultralight	Mifare Ultralight C	Mifare Classic 1K	Mifare Classic 4K	Mifare Plus X 4K	SRI2K
Manufacturer	NXP	NXP	NXP	NXP	NXP	STM
Frequency	13,56MHz	13,56MHz	13,56MHz	13,56MHz	13,56MHz	13,56MHz
Standard	ISO14443-A	ISO14443-A	ISO14443-A	ISO14443-A	ISO14443-A	ISO14443-B
UID Size	7Byte	7Byte	4Byte	4byte	7byte	64bit
OPT Area	32 bit	32bit	-	-	-	160bit
User Memory	384bit	137Byte	1024Byte	4096Byte	4096Byte	1824bit
Organisation	4pages each 4blocks x 4bytes		32blocks x 4bytes	16pages each 4blocks x 4bytes	64blocks x 4bytes	64blocks x 4byte
Access Key	-	3DES	2 keys sector	2 keys sector	CRYPTO1 or AES 128bit keys sector	-
Access Conditions	per page	-	per sector	per sector	per sector	-
Write Endurance (cycles)	10.000	10.000	100.000	100.000	200.000	1.000.000
Data Retention (years)	5	5	10	10	10	40
NFC Compliant T2	YES	YES	NO	NO	NO	NO

Note

- Other chip are available on demand (MOQ to be defined)



HF Near Field Communication (NFC) Chip Available

Product Features	NTAG203	NTAG210*	NTAG212*	NTAG213*	NTAG215*	NTAG216*
Manufacturer	NXP	NXP	NXP	NXP	NXP	NXP
Frequency	13,56MHz	13,56MHz	13,56MHz	13,56MHz	13,56MHz	13,56MHz
Standard	ISO/IEC14443 Type A, NFC Forum Type 2	ISO/IEC14443 Type A, NFC Forum Type 2	ISO/IEC14443 Type A, NFC Forum Type 2	ISO/IEC14443 Type A, NFC Forum Type 2	ISO/IEC14443 Type A, NFC Forum Type 2	ISO/IEC14443 Type A, NFC Forum Type 2
UID Number	7Byte	7Byte	7Byte	7Byte	7Byte	7Byte
User Memory	144 bytes	48 bytes	128 bytes	144 bytes	504 bytes	888 bytes
Password Protection	NO	YES	YES	YES	YES	YES
Write Endurance (cycles)	10 000	100,000	100,000	100,000	100,000	100,000
Data Retention (years)	10	10	10	10	10	10

Note

* These chip are available on demand (MOQ to be defined)



UHF ISO8000-6C Chip Available

Product Features	Higgs3	Higgs4	Monza4QT	Monza5	UCode7	UCode G2iM
Manufacturer	Alien	Alien	Impinji	Impinji	NXP	NXP
Frequency	860-960MHz	860-960MHz	860-960MHz	860-960MHz	860-960MHz	860-960MHz
Standard	ISO18000-6C	ISO18000-6C	ISO18000-6C	ISO18000-6C	ISO18000-6C	ISO18000-6C
EPC Number	96bit (extensible 480bit)	128bit	128bit	Up to 128bit	Up to 128bit	256bit
TID Number (Unique number)	64bit	64bit	32bit	48bit	48bit	48bit
User Memory	512bit	128bit	512bit	-	-	512bit
Access keys	32bit	32bit	32bit	32bit	32bit	32bit
Killed Function	32bit Kill pwd	32bit Kill pwd	64bit Kill pwd	32bit Kill pwd	32bit Kill pwd	32bit Kill pwd
Write Endurance (cycles)	100.000	100.000	100.000	100.000	100.000	100.000
Data Retention (years)	10	50	50	50	20	20

Note

- Other chip are available on demand (MOQ to be defined)

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