

RFID-Chip Matrix by TAGnology RFID GmbH © 2007



Low Frequency 125 / 134.2 kHz

Chip Type	Manufacturer	Memory Type	Serial number	Memory	Transfer - Rate	Safety features	Memory Organisation	ISO standard	Anti-collision
Zodiac (EM 4005/EM 4105)	EM Microelectronics	read only	128 Bit	128 Bit	4 kBd	CRC-Check	Bitstream	ISO 11784 ISO 11785	no
Unique (EM 4102) GK4001 (compatible)	EM Microelectronics	read only	64 Bit	64 Bit	2 / 4 / 8 kBd	CRC-Check	Bitstream	-	no
Titan (EM 4x50)	EM Microelectronics	read / write	64 Bit	1024 Bit (928 Bit free)	2 / 4 kBd	32 bit password write protection	32 blocks à 32 bit , 3 blocks for password write protection	-	no
Q5	Sokymat	read / write	32 Bit (writeable)	256 Bit (224 Bit free)	1 - 62 kBd	password write protection	8 Blöcke à 32 Bit	-	no
Hitag 1	NXP	read / write	32 Bit	2048 Bit (1792 Bit free)	4 kBd	Crypto, write protection	pages à 32 bit	-	yes
Hitag 2	NXP	read / write	32 Bit	256 Bit (128 Bit free)	4 kBd	Crypto or password write protection	8 Seiten á 32 Bit	ISO 11784 ISO 11785	no
Hitag S32	NXP	read only	32 Bit	32 Bit	2 / 4 kBd	-	1 Seite à 32 Bit	ISO 11784 ISO 11785	yes
Hitag S256	NXP	read / write	32 Bit	256 Bit (192 Bit free)	2 / 4 / 8 kBd	write protection per block	pages à 32 bit t	ISO 11784 ISO 11785	yes
Hitag S2048	NXP	read / write	32 Bit	2048 Bit (1984 Bit free)	2 / 4 / 8 kBd	write protection per block	pages à 32 bit	ISO 11784 ISO 11785	yes
Temic 5557 (T5557)	Atmel	read / write	64 Bit	256 Bit (224 Bit free)	1 - 62 kBd	32 bit password, write protection	10 Blöcke à 33 Bit	ISO 11784 ISO 11785	yes

High Frequency 13.56MHz

Chip Type	Manufacturer	Memory Type	Serial number	Memory	Transfer - Rate	Safety features	Memory Organisation	ISO standard	Anti-collision
I-Code 1	NXP	read / write	64 Bit	512 Bit (384 Bit free)	26,5 kBd	write protection per block, EAS	16 blocks à 32 bit	-	yes
I-Code HC (high capacitance 97 pF)	NXP	read / write	64 Bit	512 Bit (384 Bit free)	26,5 kBd	write protection per block, EAS	16 blocks à 32 bit	-	yes
I-Code SLI	NXP	read / write	64 Bit	1024 Bit (896 Bit free)	53 kBd	write protection per block, EAS	32 blocks à 32 bit	ISO 15693	yes
I-Code SLI-S	NXP	read / write	64 Bit (96 Bit EPC)	2048 Bit (1280 Bit free)	53 kBd	password, destroy command, EAS	blocks à 32 bit	ISO 15693 EPC	yes
I-Code UID	NXP	read / write once	bit (writeable)	192 Bit	53 kBd	CRC, destroy command	24 blocks à 8 bit	EPC	yes
I-Code EPC	NXP	read / write once	up to 96 bit (writeable)	136 Bit	53 kBd	CRC, OTP (One Time Programmable), destroy command	17 blocks à 8 bit	EPC	yes
Tag it HF-I Standard	Texas Instruments	read / write	64 Bit	371 bit (256 Bit free)	kBd write: 6,2kBd/ 9kBd with CRC	CRC, write protection per block (irreversible)	8 blocks à 32 bit	ISO 15693	yes
Tag it HF-I Pro	Texas Instruments	read / write	64 Bit	405 bit (256 Bit free)	kBd write: 6,2kB/ 9kBd with CRC	CRC, write protection per block (with password)	8 blocks à 32 bit	ISO 15693	yes
Tag it HF-I Plus	Texas Instruments	read / write	64 Bit	2283 Bit (2048 Bit free)	kBd write: 6,2kBd/ 9kBdwith CRC	CRC, write protection per block (irreversible)	64 blocks à 32 bit	ISO 15693	yes
Mifare Ultralight	NXP	read / write	56 Bit	512 Bit (384 Bit free)	106 kBd	CRC, write protection	16 pages à 32 bit	ISO 14443A	yes
Mifare 1K (Standard)	NXP	read / write	32 Bit	8192 Bit (6144 Bit free)	106 kBd	CRC, Crypto or password	blocks à 128 bit	ISO 14443A	yes
Mifare 4K	NXP	read / write	32 Bit	32768 Bit (27480 Bit free)	106 kBd	CRC, Crypto or password	blocks à 128 bit and 8 pages each	ISO 14443A	yes
Mifare DESFire	NXP	read / write	56 Bit	32768 Bit	106/212/ 424kBd	CRC, DES/3DES	flexible	ISO 14443A	yes
Legic® Prime MIM 256	LEGIC® Identsystems AG	read / write	64 Bit	2048 Bit (1872 Bit free)	26.7 kBd	write protection, encrypted data transfer	flexible, up to 127 applications	-	no (just detection)
Legic® Prime MIM 1024	LEGIC® Identsystems AG	read / write	64 Bit	8192 Bit (8016 Bit free)	26.7 kBd	write protection, encrypted data transfer	flexible, up to 127 applications	-	no (just detection)



Ultra High Frequency 868 / 915 MHz

Chip Type	Manufacturer	Memory Type	Serial number	Memory	Transfer - Rate	Safety features	Memory Organisation	ISO standard	Anti-collision
UCode HSL	NXP	read / write	64 Bit	2048 Bit (1728 Bit free)	40 kBd	CRC, write protection per byte	64 blocks à 32 bit	ISO 18000-4 ISO 18000-6	yes
UCode EPC 1.19	NXP	read / write	up to 96 bit (writeable)	352 Bit (256 Bit free)	40 kBd	write protection per byte	11 blocks à 32 bit	ISO 18000-6	yes
UCode EPC G2	NXP	read / write	up to 96 bit (writeable)	512 Bit (128 Bit free)	640 kBd	password, OTP (One Time Programmable), destroy command	32 blocks à 16 bit	6C EPC Class 1 Gen2	yes
EM 4122	EM Microelectronics	read / write	64 Bit	64 Bit	256 kBd	CRC	bitstream	-	yes