

HTS 2048 125 kHz RFID IC Read/Write 2048 bits Anticollision, Crypt

Features

- 2048 bits EEPROM memory organized in 64 pages of 32 bits (1984 bits of user memory in plain mode or 1920 bits of user memory in encryption mode)
- 32 bits Read Only memory
- Lock bit per 2 pages, block, 2 blocks or 4 blocks
- Typical operating frequency: 125kHz
- Contactless power supply, very low power
- Manchester or Bi-Phase encoding (selected by customer)
- Data rate options : 2, 4 or 8KBd (selected by customer)
- Compliance to: ISO 1784/785, 14223-1, German and Dutch pigeon race standard and German waste management standard BDE
- Operating Mode (selected by customer) :
 - TTF (Transponder Talk First): Pages 4, 5, 6, 7 transmitted at power up
 - RTF (Anticollision): Reader Talk First approach

Based on Unique ID number Detection speed 20 tags/sec

• Encryption : Mutual authentication based on 48 bits secret key

(performed within 48ms)

Memory Organisation

			Plain Mode		Authentication Mode	
Block	Page) 	Content	Access	Content	Access
Block 0	0		32 bit UID	Read Only	32 bit UID	Read Only
	1		24 bits configuration, 8 bits reserved	R/W, RO or OTP	24 bits configuration, 8 bits PWD high	R/W, RO or OTP
	2		User Memory	R/W or Lock (for page 2 and 3)	16 bits key high, 16 bits PWD low	R/W or No access
	3		User Memory		32 bit key low	
Block 1	4		User Memory	R/W or Lock (for page 4 and 5)	User Memory	R/W or Lock (for page 4 and 5)
	5		User Memory		User Memory	
	6		User Memory	R/W or Lock (for page 6 and 7)	User Memory	R/W or Lock (for page 6 and 7)
	7		User Memory		User Memory	
Block 2	8		User Memory	R/W or Lock (for page 8, 9, 10 and 11)	User Memory	R/W or Lock (for page 8, 9, 10 and 11)
	9		User Memory		User Memory	
	10		User Memory		User Memory	R/W or Lock (for page 6 and 7)
	11		User Memory		User Memory	
:			:		:	
Block 45	16		User Memory	R/W or Lock (for block 4 and 5)	User Memory	R/W or Lock (for block 4 and 5)
	17		User Memory		User Memory	
	22		User Memory		User Memory	
	23		User Memory		User Memory	
•			•		•	
Block 811	32		User Memory	R/W or Lock (for block 8 to 11)	User Memory	R/W or Lock (for block 8 to 11)
	33		User Memory		User Memory	
	46		User Memory		User Memory	
	47		User Memory		User Memory	
Block 1215	48		User Memory	R/W or Lock (for block 12 to 15)	User Memory	R/W or Lock (for block 12 to 15)
	49		User Memory		User Memory	
						
	62		User Memory		User Memory	
	63		User Memory		User Memory	

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