HTS 256
125 kHz RFID IC
Read/Write 256 bit
Anticollision, Crypt

Features

- 256 bit EEPROM memory organized in 8 pages of 32 bits (192 bits of user memory in plain mode or 128 bits of user memory in encryption mode)
- 32 bit Read Only memory
- Lock bit per 2 pages
- 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

Block	Page
Block 0	0
Block 0	1
Block 0	2
Block 0	3
Block 1	4
Block 1	5
Block 1	6
Block 1	7
Block 2	8
Block 2	9
Block 2	.
Block 2	.
Block 2	.

	Plain Mode		Authentication Mode	
Page	Content	Access	Content	Access
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	
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	
8				
9			*Not Applicable*	