

# TITAN

## 125kHz RFID IC

### Read/Write 1k bit

#### Features

- 1k bit EEPROM memory organized in 32 words of 32 bits (*928bits of user memory*)
- 64 bits Laser Rom, guarantees unicity of the device
- Typical operating frequency : 125kHz
- Contactless power supply, very low power ( $I_{read}=3\mu A$ ,  $I_{write}=40\mu A$ )
- Manchester encoding
- Data rate options : 2 or 4 kBd (*option selected during device manufacturing*)  
Standard Sokymat configuration : Manchester, 2kBd
  
- Security features :
  - Password of 32 bits
  - User defined Read Memory area at power On
  - User defined Write inhibited Memory area
  - User defined Read protected Memory area

#### Memory Organisation

Word	Bit 0 -----31
0	Password
1	Protection word
2	Control word
3 : 31	928 bits of user EEPROM
32	Device serial number
33	Device identification

**Password** : Write Only, NO Read access

**Protection Word** :

- 0-7 First word read protected
- 8-15 Last word read protected
- 16-23 First Word Write Inhibited
- 24-31 Last word Write Inhibited

**Control Word** :

- 0-7 First word read
- 8-16 Last word read
- 16 Password check On/Off
- 17 Read after write On/Off
- 18-31 User available

**User Memory** : 928 bits available

**Device serial number** : Laser ROM (unicity)

**Device Identification** : Laser ROM

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