TITAN
125kHz RFID IC
Read/Write 1k bit

Features

- 1k bit EEPROM memory organized in 32 words of 32 bits (928 bits of user memory)
- 64 bits Laser Rom, guarantees unicity of the device
- Typical operating frequency: 125kHz
- Contactless power supply, very low power (Iread=3µA, Iwrite=40µA)
- 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

<table>
<thead>
<tr>
<th>Word</th>
<th>Bit 0 ------------------------------31</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Password</td>
</tr>
<tr>
<td>1</td>
<td>Protection word</td>
</tr>
<tr>
<td>2</td>
<td>Control word</td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td>:</td>
<td>928 bits of user EEPROM</td>
</tr>
<tr>
<td>31</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Device serial number</td>
</tr>
<tr>
<td>33</td>
<td>Device identification</td>
</tr>
</tbody>
</table>

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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