ST25TV series
Tags for Consumer Engagement

NFC forum certified Tag Type 5, with ISO15693 RF interface, TruST25™
Digital Signature, Tamper Detect and privacy features.

ST’s ST25TV ICs provide NFC forum tags that enable consumer to experience a digital life. The embedded EEPROM memory density spans from 512-bit to 64-Kbit, covering a wide spectrum of applications including Brand protection and Access control. The ST25TV series delivers state-of-the-art RF performance together with strong protections such as block lock mechanism and encrypted passwords.

**KEY FEATURES**
- ISO/IEC 15693
- From 512-bit to 64-Kbit EEPROM with write protect
- 64-bit unique identifier
- 16-bit counter with anti-tearing
- 23.5pF & 97pF tuning capacitance
- Up to 60 years data retention
- 100K write erase cycles
- Kill / Privacy mode
- Digital Signature / Tamper detect

**KEY BENEFITS**
- Wide memory density options
- High-reliability EEPROM

**KEY APPLICATIONS**
- Consumer engagement
- Brand protection
- Access control
- Asset Tracking
- Identification
- Gaming

- Anti-collision mechanism
- Read or Write operations
- Tamper detect indicator
- Privacy Protection
- Antenna Class 1 to Class 6 support
DEVICE SUMMARY

<table>
<thead>
<tr>
<th>Part number</th>
<th>RF interface</th>
<th>Memory size</th>
<th>Trust25™ Digital Signature</th>
<th>Tamper Detect</th>
<th>Capacitance</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST25TV512</td>
<td>ISO 15693</td>
<td>512-bit</td>
<td>Yes</td>
<td>Yes / No</td>
<td>23.5pF / 97pF</td>
<td>SBN12 * and SBN075*</td>
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<td>ST25TV02K</td>
<td>ISO 15693</td>
<td>2-Kbit</td>
<td>Yes</td>
<td>Yes / No</td>
<td>23.5pF / 97pF</td>
<td>SBN12 <em>, SBN075</em> and UDFPN5</td>
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<tr>
<td>ST25TV16K-AP6G3</td>
<td>ISO 15693</td>
<td>16-Kbit</td>
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<td>No</td>
<td>23.5pF</td>
<td>SBN12 *</td>
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<td>ISO 15693</td>
<td>64-Kbit</td>
<td>Yes</td>
<td>No</td>
<td>28.5pF</td>
<td>SBN12 *</td>
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</tbody>
</table>

* SBN12: Sawn and Bumped waffer (die form), 120µm thickness. SBN075: Sawn and Bumped waffer (die form), 75µm thickness

REFERENCE DESIGN KITS

ST25 NFC Tap
NFC Tap App
Download on the App Store
Google Play
ST25 NFC Tap
e2e community
Datasheet, user manual & application note
Support eco-system
Antenna Design Suite
Evaluation board
Schematics, BOM & Gerber
PC SW tools

TECHNICAL SUPPORT

The ST25 NFC/RFID Tags family offers a simple and cost-effective implementation. ST can provide supporting material for integrating the antenna into your application: application notes, reference designs, antenna computation tools, e-presentations and e-learning. Visit www.st.com/ST25T