The ST25TV512C and ST25TV02KC NFC Type 5 tags are certified by the NFC Forum and compliant with the industrial ISO 15693 RFID specifications, making them ideal for a wide range of applications.

Thanks to its Augmented NDEF feature (ANDEF), the ST25TV512C and ST25TV02KC tag ICs include a contextual automatic NDEF messaging service, which allows the tag to respond with dynamically-generated content when triggered by the end user with a simple “tap”.

The ST25TV512C and ST25TV02KC tag ICs offer best-in-class RF performance and provide further improvements to the previous ST25TV tag ICs, such as an untraceable mode and tamper detection.

KEY FEATURES & BENEFITS
- ISO/IEC 15693
- Native NDEF support
- Augmented NDEF
- Unique Tap Code (UTC)
- Tamper detection
- Kill / Untraceable mode
- Trust25 Digital Signature
- 64-bit encrypted password
- 64-bit unique identifier
- Highly reliable EEPROM
- 60 years data retention
- 100K erase/write cycles

KEY APPLICATIONS
- Luxury goods
- Wine & spirits
- Consumer Packaged Goods
- Healthcare & wellness
- Pharmaceutical
- Gaming & education

KEY USE CASES
- Consumer engagement
- Brand protection
- Product configuration
- Asset tracking
- Identification
- Tamper-proof applications
- Access control
### Device summary

<table>
<thead>
<tr>
<th>Part number</th>
<th>RF interface</th>
<th>NFC Forum certification</th>
<th>Data protection</th>
<th>Memory size</th>
<th>Privacy services</th>
<th>Tamper indicator</th>
<th>Special features</th>
<th>Package</th>
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<tbody>
<tr>
<td>ST25TV02KC-TFH3</td>
<td>ISO15693 / NFC Forum Type 5</td>
<td>Yes</td>
<td>64-bit encrypted password</td>
<td>2 Kbits</td>
<td>Yes</td>
<td>Yes</td>
<td>Augmented NDEF and Trust25 Digital Signature</td>
<td>UFDFPN5</td>
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<tr>
<td>ST25TV02KC-TFG3</td>
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<td>Yes</td>
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<td>Yes</td>
<td>Yes</td>
<td>Augmented NDEF and Trust25 Digital Signature</td>
<td>SBN12 (*)</td>
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<td>ST25TV02KC-AFG3</td>
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<td>64-bit encrypted password</td>
<td>2 Kbits</td>
<td>Yes</td>
<td>Yes</td>
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<td>SBN12 (*)</td>
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<td>SBN075 (*)</td>
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</tbody>
</table>

**Note:**
- SBN075: Sawn and bumped wafer (die form), 75 µm thickness;
- SBN12: Sawn and bumped wafer (die form), 120 µm thickness

### Reference design kit

ST25TV02KC-ASEAL discovery kit  
(Please contact your local ST office for further details)

### ST25TV Series Eco-System

**Support eco-system**

- e2e community
- PC SW tools
- ST25 NFC Tap app
- Documentation
- Antenna Design Suite

### 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](http://www.st.com/st25t)

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