

**SAG Together with ST**  
to Do More Advanced NFC Applications

## Enable Every NFC Potential

Speaking of IoT, NFC technology plays an important role to connect things. SAG has been in partnership with STMicroelectronics to provide tags and labels for a wide variety of applications to truly realize its vision of Life Augmented. Strong at NFC technology, STMicroelectronics provides NFC forum certified Type 4 and Type 5 ST25T series for NFC tags and ST25D series for dynamic tag with unique features to go more advanced use cases such as parameter setting and convenient pairing. With different form factors in our product portfolio, we will ready your NFC applications.

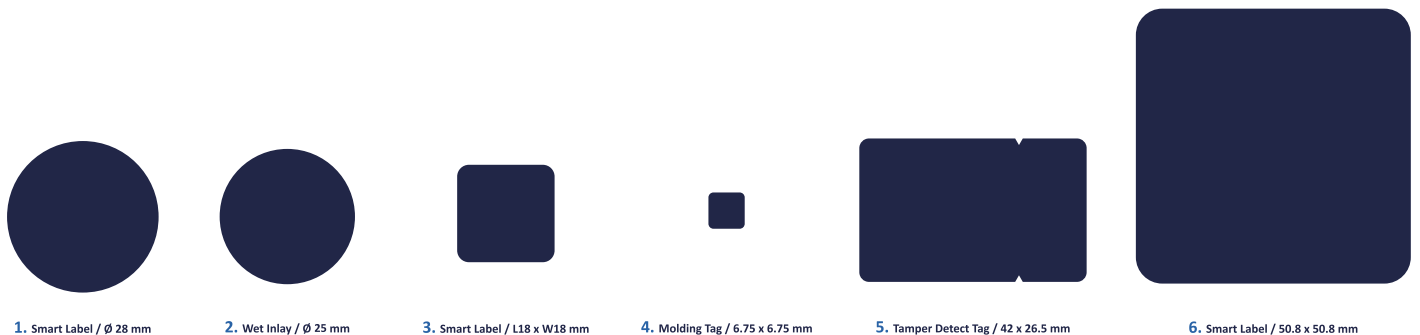
### ST25TV Series

ST25TV512C and ST25TV02KC follow ISO15693 protocol. It features Augmented NDEF to allow the native exchange of NDEF messages without a mobile app. It holds a digital signature generated by TruST25 to prove the origin of the chip in cloning detection. It also offers kill modes to the password to better protect user privacy. Embedded with a configurable EEPROM, it has 60-year data retention for long time use.

| No. | Size(mm)      | Inlay Size(mm) | IC           | Features    |
|-----|---------------|----------------|--------------|-------------|
| 1   | ∅ 28          | ∅ 25           | ST25TV512C   |             |
| 2   | ∅ 25          | ∅ 25           | ST25TV512C   | wet inlay   |
| 3   | L18 x W18     | 14.5 x 14.5    | ST25TV02KC   |             |
| 4   | 6.75 x 6.75   | -              | ST25TV02KC   |             |
| 5   | L42 x W26.5   | 37 x 21        | ST25TV02KC-T | with Tamper |
| 6   | L50.8 x W50.8 | 45 x 45        | ST25TV02KC   |             |



ST25TV02KC NFC Forum Type5 Tag IC with 2K bit EEPROM  
ST25TV512C NFC Forum Type5 Tag IC with 512 bit EEPROM



1. Smart Label / ∅ 28 mm

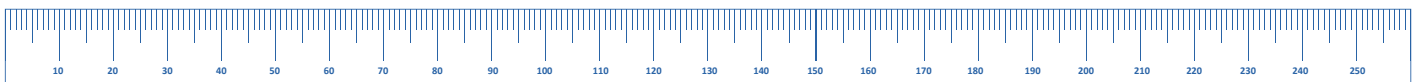
2. Wet Inlay / ∅ 25 mm

3. Smart Label / L18 x W18 mm

4. Molding Tag / 6.75 x 6.75 mm

5. Tamper Detect Tag / 42 x 26.5 mm

6. Smart Label / 50.8 x 50.8 mm



**Manufactured by SAG**



For more information, please visit [www.st.com/st25](http://www.st.com/st25)  
For label and tag product, please visit [www.sag.com.tw](http://www.sag.com.tw) or write to [info@sag.com.tw](mailto:info@sag.com.tw)

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## Product Portfolios

With the ST25 product family, STMicroelectronics offers a complete portfolio of NFC and RFID tag and reader ICs for a wide variety of NFC-enabled solutions. Currently found in contactless payment, access control and public transport ticketing systems, NFC technology is a convenient, always-on low power short-range wireless link that is driving the growth for convenient pairing, diagnostic readout, data tracking, and parameter setting use cases in Consumer, Industrial, Automotive and Medical applications.

| ST25T series                    |            |            |           |                |                |                |                 | ST25D series |
|---------------------------------|------------|------------|-----------|----------------|----------------|----------------|-----------------|--------------|
|                                 | Type 4     |            |           | Type 5         |                |                |                 | Type 5       |
| RF Interface                    | ISO14443   |            |           | ISO15693       |                |                |                 | ISO15693     |
| Chip                            | ST25TA512B | ST25TA02KB | ST25TA16K | ST25TV512      | ST25TV512C     | ST25TV02K      | ST25TV02KC      | ST25DV04K    |
| Memory Sizes                    | 512Bits    | 2KBits     | 16KBits   | 512Bits        | 512Bits        | 2KBits         | 2KBits          | 4KBits       |
| Data Protection(password)       | 128-bits   | 128-bits   | 128-bits  | 32- / 64- bits | 32- / 64- bits | 32- / 64- bits | 32- / 64- bits  | 64-bits      |
| Tag Product                     |            |            |           |                |                |                |                 |              |
| On-metal stick tag (Round 34mm) | ●          |            |           |                |                |                |                 |              |
| Ferrite Tag (4x2x2.1mm)         |            |            |           |                |                | ●              |                 |              |
| Ferrite Tag (4.9x3x2.4mm)       |            |            |           |                |                | ●              |                 |              |
| molding tag (6.7x6.7x0.75mm)    |            |            |           |                |                |                | ●               |              |
| Button Tag (12.4x2mm)           |            |            |           |                |                | ●              |                 |              |
| Button Tag (22x3mm)             |            |            |           |                |                | ●              |                 |              |
| Cable Ties Tag (195x8.3x9mm)    |            |            |           |                |                | ●              |                 |              |
| 0806 Dynamic Tag                |            |            |           |                |                |                |                 | ●            |
| Label/Ticket Product            |            |            |           |                |                |                |                 |              |
| Label (7.5x40mm)                | ●          | ●          |           |                |                |                |                 |              |
| Label (9.3x24.4mm)              |            |            |           |                |                | ●              |                 |              |
| Label (11x20mm)                 |            |            |           |                |                | ●              |                 |              |
| Label (16x16mm)                 |            | ●          |           |                |                |                |                 |              |
| Label (18x18mm)                 |            |            |           |                |                | ●              | ●               |              |
| Label (36.5x101.6mm)            |            |            |           | ●              |                |                |                 |              |
| Label (37.7x100.9mm)            |            |            |           | ●              |                |                |                 |              |
| Label (42x26.5mm)               |            |            |           |                |                |                | ● (with Tamper) |              |
| Label (50.8x50.8mm)             |            |            |           |                |                | ●              | ●               |              |
| Label (Round25mm)               |            |            |           |                | ●              | ●              |                 |              |
| Label (Round28mm)               |            |            |           |                | ●              |                |                 |              |
| Label (Round29mm)               |            | ●          | ●         |                |                | ●              |                 |              |
| HF Metal Labels (16x23mm)       |            |            |           |                |                | ●              |                 |              |

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