



ID-A347 - ST25TN01K

NFC Inlay and Label

IC Speciality

Identiv's ID-A347 - STM ST25TN01K is designed for mass market applications, such as retail, gaming, and consumer electronics. This tag is ideal for smart out-of-home or print media advertising, mobile companion tags, and product authentication. It is highly versatile and comes with a pre-programmed capability container with one-time programmable bits, field-programmable read-only lockout function, and 32-bit password protection to prevent unauthorized memory operations. This tag is suited for use in such applications as smart shelf labels, Bluetooth pairing, and Wi-Fi pairing.

Key Features

- Automatic serialization of NDEF messages due to **Augmented NDEF feature**
- Automatic adding of the NFC counter value to the NDEF message by **Augmented NDEF feature**
- User privacy ensured by **kill feature** through a simple software procedure.
- **Password protection** (32-bit) for prevention of unauthorized memory operations
- Available as dry inlay, wet inlay, or label

Frequency

- NFC 13.56 MHz

Antenna Dimensions

- Ø 20 mm

Chip

- ST25TN01K

International Standards

- NFC Forum Type 2 Tag
- ISO/IEC 14443 Type A

Industries

- NFC
- Gaming and toys
- Electronics
- Pharma and healthcare

Specifications

| Format | Dry Inlay | Wet Inlay | Label |
|---------------------------|---|--|--|
| Product Part Number | 9001070 | 9001071 | 9001072 |
| Manufacturing Part Number | I00XXTW9020 | I00PADTW9020 | L15PADTW9020 |
| IC | ST25TN01K-AFG5 | ST25TN01K-AFG5 | ST25TN01K-AFG5 |
| User Memory | 208 bytes | 208 bytes | 208 bytes |
| Antenna Dimension | Ø 20 mm | Ø 20 mm | Ø 20 mm |
| Tag Dimensions | Ø 20 mm | Ø 22 mm | Ø 22 mm |
| ISO/IEC Norm | ISO/IEC 14443A | ISO/IEC 14443A | ISO/IEC 14443A |
| Frequency | 13.56 MHz | 13.56 MHz | 13.56 MHz |
| Face Material | - | - | White PET |
| Thickness | ~ 200 µm | ~ 290 µm | ~ 370 µm |
| Pitch | 35 mm | 35 mm | 35 mm |
| Web Width | 33 mm | 33 mm | 33 mm |
| Operating Temperature | -20°C ~ 70°C (-4°F ~ 158°F), at <60%RH | -20°C ~ 70°C (-4°F ~ 158°F), at <60%RH | -20°C ~ 70°C (-4°F ~ 158°F), at <60%RH |
| Storage Information | 2 years under desiccated condition; 10°C ~ 25°C (50°F ~ 77°F), ≤ 60% RH | 1 year under desiccated condition; 10°C ~ 25°C (50°F ~ 77°F), ≤ 60% RH | 1 year under desiccated condition; 10°C ~ 25°C (50°F ~ 77°F), ≤ 60% RH |

Contact Information: sales@identiv.com

Care and handling: To minimize static charge and environmental impact, it's crucial to adhere to standard industry practices related to electronics and RFID when handling RFID inlays, as they are sensitive to ESD.

Application: To ensure that this product meets specific requirements, customers/users must thoroughly test it under end-use conditions. Identiv does not claim that the product is suitable for any particular purpose or use. Additionally, Identiv retains the right to modify, supplement, change, or discontinue product offerings at any time without prior notice. While the information presented here is believed to be reliable, Identiv does not guarantee the accuracy or correctness of the data.

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