



ID-A419 - ST25TN01K

NFC Inlay and Label

IC Speciality

Identiv's ID-A419 - 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

- 10 x 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	9001085	9001086	9001087
Manufacturing Part Number	I00XXTW0100	I00PADTW0100	L15PADTW0100
IC	ST25TN01K-AFG5	ST25TN01K-AFG5	ST25TN01K-AFG5
User Memory	208 bytes	208 bytes	208 bytes
Antenna Dimension	10 x 20 mm	10 x 20 mm	10 x 20 mm
Tag Dimensions	10 x 20 mm	13 x 23 mm	13 x 23 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	~ 300 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

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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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