I PENTIV



ID-A220 - NXP MIFARE® Ultralight® EV1

NFC Inlay and Label

IC Speciality

The Identiv ID-A220 - NXP MIFARE® Ultralight® EV1 design incorporates the MIFARE Ultralight EV1 IC, which is well-suited for limited use tickets, loyalty cards, and day passes for events. It effectively replaces conventional ticketing methods like paper tickets, magnetic stripe tickets, or coins, offering enhanced efficiency. Additionally, the chip's advanced features and command set enable more efficient implementations and offer increased flexibility in system designs.

Key Features

- Solution for limited-use smart paper tickets and cards
- Support for multi-operator transit system with 3 independent 24-bit one-way counters
- Password protection (32-bit) for prevention of unauthorized memory operations
- Simultaneous operation of more than one tag in the field due to anti-collision function
- Available as **dry inlay, wet inlay**, or **label**

Frequency

• NFC 13.56 MHz

Antenna Dimensions

· 33.2 x 15 mm

Chip

• NXP MIFARE® Ultralight ® EV1

International Standards

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

Industries

- Ticketing in transport
- Ticketing in leisure
- Loyalty programs



Specifications

Format	Dry Inlay	Wet Inlay	Label
Product Part Number	9001021	9001022	9001023
Manufacturing Part Number	100XXXMS0331	I00PADMS0331	L15PADMS0331
IC	NXP MIFARE® Ultralight ® EV1	NXP MIFARE® Ultralight ® EV1	NXP MIFARE® Ultralight ® EV1
User Memory	384 bit	384 bit	384 bit
Antenna Dimension	33.2 mm x 15 mm	33.2 mm x 15 mm	33.2 mm x 15 mm
Tag Dimensions	33.2 mm x 15 mm	36 mm x 18 mm	36 mm x 18 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	~ 190µm	~ 300µm	~ 370µm
Pitch	48 mm	48 mm	48 mm
Web Width	30 mm	30 mm	30 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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Warranty: Please refer to Identiv standard terms and conditions: https://www.identiv.com/terms-and-conditions



