

J31-A1

INLAY FOR DENSE READABILITY



J31-A1 inlay by JRI provides more robust performance in a shorter format with the label size of 35x15mm. It's ideal for medical supplies such as medical consumables and drugs, resulting in more accurate inventory management. It is with carefree readability whether tagged items are spaced close or far apart or in a very densely tagged application.



FEATURES:

- Global GS1 Class 1 Gen 2 (V.2.0.1) and ISO/IEC 18000-6C compliance
- Worldwide operation in all RFID UHF bands (860MHz-960MHz)
- High performance for the dense tagged applications
- 96-bit of EPC memory
- Supports pre-serialization for 96-bit EPC
- 96-bit Tag Identifier (TID) factory locked
- 0-bit User Memory
- 32-bit kill and 32-bit access password
- Minimum 100k write cycle endurance
- Seamless operation with currently deployed RFID hardware
- 35*15mm dimension, compatible with all standard far-field RFID reader antennas

OVERVIEW:

J31-A1 inlay is developed for small-size dense tagged applications, it is based on NXP Ucode 9 IC and small-sized antenna, and offers more robust performance for Apparel, Shoes, Medicinal, Retail & General applications.

J31-A1 tags are world tag compliant, enabling consistent operation across the diverse frequencies of the Japan, Americas, Europe, China, Middle East and Africa.

Applications include (but not limited to):

[Apparel / Shoes management](#)

[Supply chain management](#)

[Medical articles management](#)

[General enterprise asset management](#)

[Hang tags](#)

WET INLAY

Inlay Width	15mm
Inlay Length	35mm
Web Width	39mm
Web Pitch	19.05mm
Core Width	39mm
Core Material	Fiberboard
Inlay Roll	10000pcs
Roll Labeling Info	Roll ID、Quantity

LABEL

Label Width	15mm
Label Length	35mm
Web Width	39mm
Web Pitch	19.05mm
Core Width	39mm
Core material	Fiberboard
Inlay Roll	10000pcs
Roll Labeling Info	Roll ID、Quantity

ENVIRONMENTAL

Operating Humidity	20% ~ 90% RH
Operating Temperature	-40℃ ~ +70℃
Recommended Storage	+25℃@40% RH
Shelf Life for Dry	5 years at +25℃@40% RH
Shelf Life for Wet	2 years at +25℃@40% RH
Bend Diameter	>50mm
Pressure	<5N/mm ²
ESD (human body model)	±2kV

RFID

Protocols Supported	GS1 Class1 Gen2 ISO/IEC 18000-6C
Operating Frequency	860MHz ~ 960MHz
EPC	96 bits
TID	96 bits
RESERVED	64 bits
USER	0 bit
Write Cycle	>100k

READ RANGE (2W ERP) COMPARING WITH NORMAL RETAIL TAG

TEST CONDITION	RETAIL TAG A (35*15MM)	JRI J31-A1
Single Tag on Cardstock	3 meters	3.5 meters
Single Tag on underwear article	3 meters	3.5 meters
Single Tag on Polybag	2.5 meters	4 meters
Multi Tags Spaced Close	1 meter	4 meters
Single Tag in-near with Metal Plate	0.8 meter	1.2 meter
Single Tag on Plastic Plate	3 meters	4.5 meters