



Vortex 50 x 50 mm U9

The Vortex label from RICHRFID is a versatile, high-performance tag designed for a wide range of applications. It delivers reliable reading performance across supply chain management, inventory control, logistics, retail and apparel.

The product is complied with EPC global Class 1 Gen2 , ISO 9001 quality management and ISO 14001 environmental management standards, ensuring reliable, industry-grade performance for diverse use cases.

Equipped with NXP UCode 9 IC, Minimesh-50x50-U9 features a 96-bit, A 48-bit unique serial number is factory-encoded into the TID. Delivery formats include dry inlay and label. The NXP IC is compatible with the global GS1 UHF Gen2v2 standard ISO/IEC 18000-63.

By enabling Privacy Mode, the label can be used for high-value products, authenticity verification, and applications requiring enhanced privacy protection.

The label size 50 x 50 mm and performance make it especially well-suited for retail application.

Overview

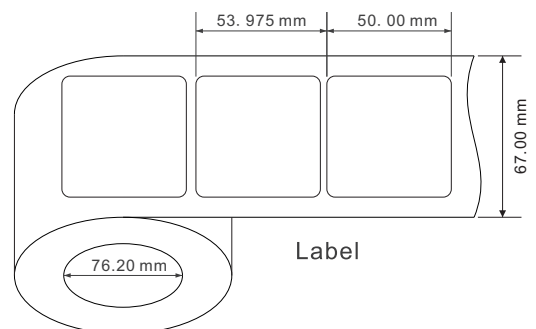
Frequency Band
UHF 860-960 MHz

Chip Type
NXP Ucode 9

Dimensions
50 x 50 mm / 1.97 x 1.97 in

Air Interface Protocol
ISO/IEC 18000-63 Type C

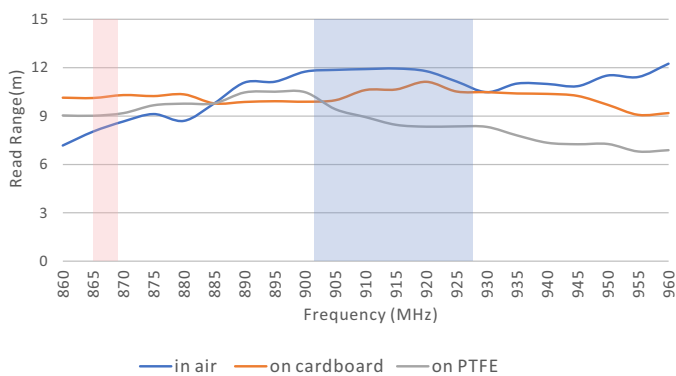
Application
Warehouse & Logistics
Baggage & ticket
Library & archives
Asset tracking



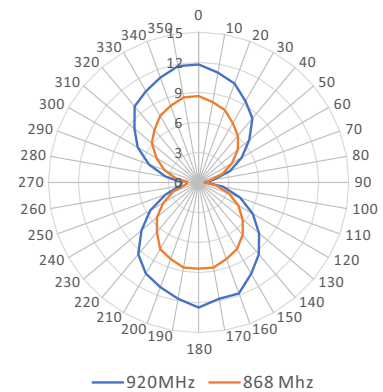
Technical Features

Model	RC5041
RFID Features	
Frequency	860-960 MHz
Application	Non metal
Chip Type	NXP Ucode 9
Memory	User - NA; EPC - 96 bits; TID - 96 bits
Data Storage	> 10 years
Re-write	100,000 times
Physical Features	
Dimension	50 x 50 mm / 1.97 x 1.97 in
Material	Coated Paper
Adhesive	Hot Melt
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Storage Condition	20±5°C, 50±10% RH, Store away from sunlight
Other Features	
Installation	Adhesive on clean & dry surface
Customization	Printing, Encoding, Designing, etc.
Package	2,500 pcs / roll, 4 rolls / box

Read Range(2W ERP)



Radiation Pattern



PS: The performance is theoretical values in the lab and the actual effect depends on the specific applications.

RICHRFID

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DISCLAIMER

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