



Quadra 44 x 44 mm U9

The Quadra from RICHRFID is a versatile, high-performance dry inlay designed for a wide range of applications. It delivers reliable reading performance across apparel and fashion, warehouse logistics, beauty and personal care, and library and archives applications.

The product complies with EPCglobal Class 1 Gen 2 and is manufactured under ISO 9001 quality management and ISO 14001 environmental management standards, ensuring reliable, industry-grade performance for diverse use cases.

Equipped with the NXP UCODE 9 IC, the Quadra-50x50-U9 features 96 bits of EPC memory and a 96-bit factory-locked TID. A 48-bit unique serial number is factory-encoded into the TID. The NXP IC is compatible with the global GS1 UHF Gen2v2 standard, standardized by ISO/IEC as 18000-63. The IC supports access password, kill command, Block Write, Permalock, and memory safeguard features, helping support secure data management and permanent tag deactivation when required.

Designed for conversion into a 50 x 50 mm RFID label, the dry inlay delivers stable RFID performance and is especially well-suited for retail, logistics, and item-level identification applications.

Overview

Frequency Band

UHF 860-960 MHz

Chip Type

NXP Ucode 9

Dimensions

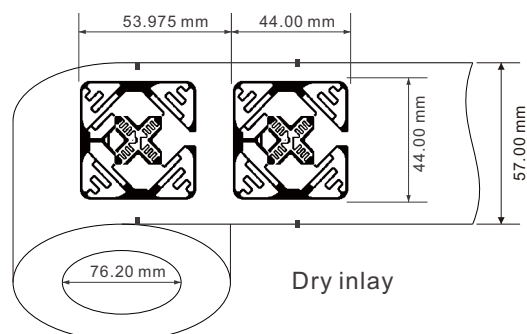
44 x 44 mm / 1.73 x 1.73 in

Air Interface Protocol

ISO/IEC 18000-63 Type C

Application

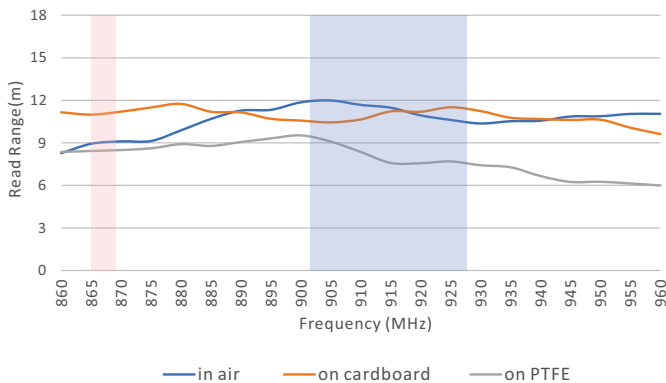
Retail & Apparel
Asset tracking
Smart packaging
Authentication



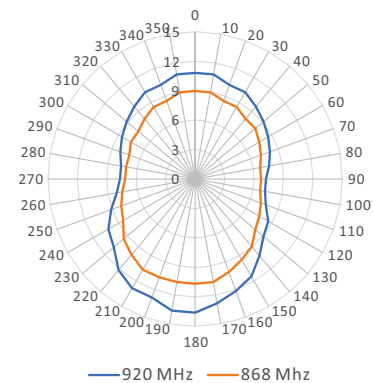
Technical Features

Chip Type	NXP Ucode 9	
EPC	96 bits	
User	N/A	
TID	96 bits	
Model	—	RC5041
Delivery Format	Dry Inlay	Label
Die-Cut Dimension	—	50 x 50 mm / 1.97 x 1.97 in
Inlay Substrate	50 um PET	50 um PET
Face Material	—	Coated Paper
Adhesive	—	Hot Melt
Standard Pitch	53.975 mm / 2.12 in	53.975 mm / 2.12 in
Web Width	57 mm / 2.24 in	57 mm / 2.24 in
Core inner Diameter	76.2 mm / 3.0 in	76.2 mm / 3.0 in
Operating Temperature	-40°C to 85°C / -40°F to 185°F	
Storage Condition	20±5°C, 50±10% RH, Store away from sunlight	
Installation	—	Adhesive on clean & dry surface
Customization	Encoding, Designing, etc.	Printing, Encoding, Designing, etc.
Package	10,000 pcs / roll, 4 rolls / box	2,500 pcs / roll, 4 rolls / box
Application	Non-metal	

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

All specifications are indicative and results may vary. Each user bears full responsibility for making its own determination as to the suitability of RICHRFID products, materials, services, recommendations, or advice for its own particular use.

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