

Mesh DF 54 x 34 mm 6S

The Mesh DF from RICHRFID is a versatile, high-performance dual-frequency RFID label designed for a wide range of applications. It delivers reliable reading performance across apparel and fashion, beauty and personal care, and warehouse logistics.

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 Qstar-6S IC, it delivers long-range UHF identification and convenient HF/NFC mobile interaction, combined with cryptographic security features for enhanced data protection. The Qstar-6S is compatible with ISO/IEC 18000-63, EPCglobal Gen2v2, ISO/IEC 14443 Type A, and NFC Forum™ Type 2. Featuring 2 Kbits of shared user memory between UHF and HF, the IC supports secure data storage for dual-frequency RFID applications.

With its cryptographic authentication and data protection capabilities, the label is suitable for high-value products, authenticity verification, and applications requiring enhanced privacy protection.

With a label size of 54 x 34 mm, it delivers stable RFID performance and is especially well-suited for retail applications.

Overview

Frequency Band

UHF 860-960 MHz

HF 13.56 MHz

Chip Type

Qstar-6S

Dimensions

54 x 34 mm / 2.13 x 1.34 in

Air Interface Protocol

ISO/IEC 18000-63 Type C

ISO/IEC 15639 Type A

NFC FORUM Type 2

Application

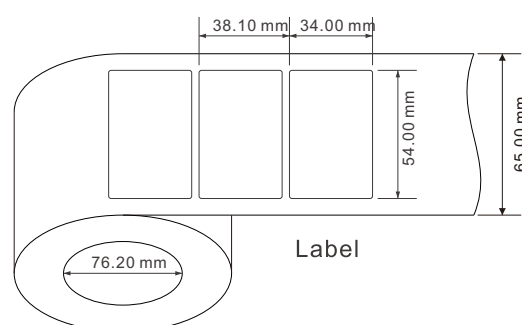
Authentication & Brand protection

Digital product passport

Food & Pharmaceuticals

Supply Chain

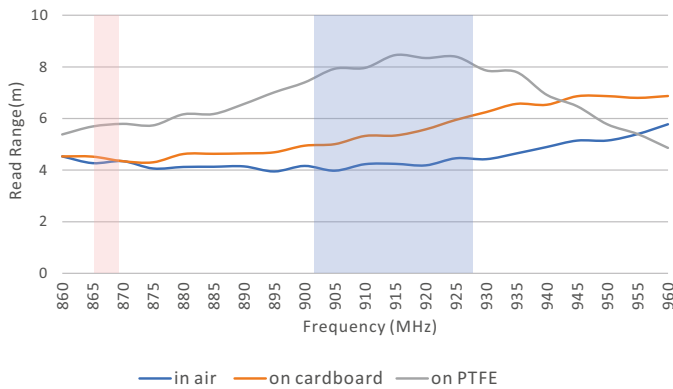
Hospitality & Events



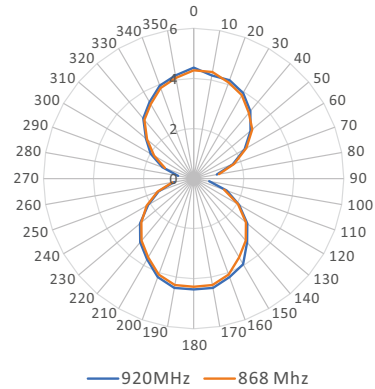


Model	RC5133
RFID Features	
Frequency	860-960 MHz
Application	Non metal
Chip Type	Qstar-6S
Memory	160 bits or 256 bits of EPC for UHF 96 bits or 128 bits of TID for UHF Up to 2K bits of User for UHF and HF
Data Storage	> 10 years
Re-write	100,000 times
Physical Features	
Dimension	54 x 34 mm / 2.13 x 1.34 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.



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DISCLAIMER

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