

Mesh DF 50 x 30 mm 6S

The Mesh DF inlay/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 Gen 2, 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, superior long-range identification in UHF and convenient mobile identification in HF together with the state-of-the-art crypto-graphic security protection to the RFID world. Qstar-6S is fully compatible with ISO / IEC 18000-6C, EPC Global GEN2 V2 and ISO / IEC 14443 Type A, NFC Forumtm Type 2, featuring up to 2K bit-user memory in GEN2 shared with HF, this family has anoutstanding data retention of up to 30 years at 85°C .

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

The label size 54 x 34 mm and performance make it especially well-suited for retail application.

Overview

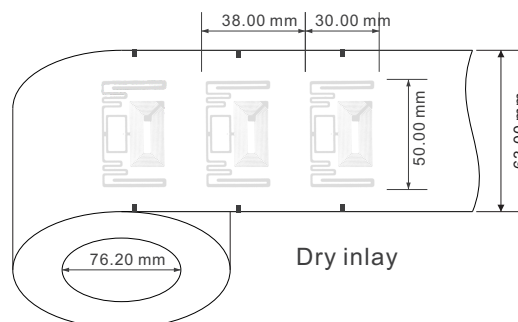
Frequency Band
 UHF 860-960 MHz
 HF 13.56 MHz

Chip Type
 Qstar-6S

Dimensions
 50 x 30 mm / 1.97 x 1.18 in

Air Interface Protocol
 ISO/IEC 18000-63 Type C
 ISO/IEC 14443 Type A
 NFC FORUM Type 2

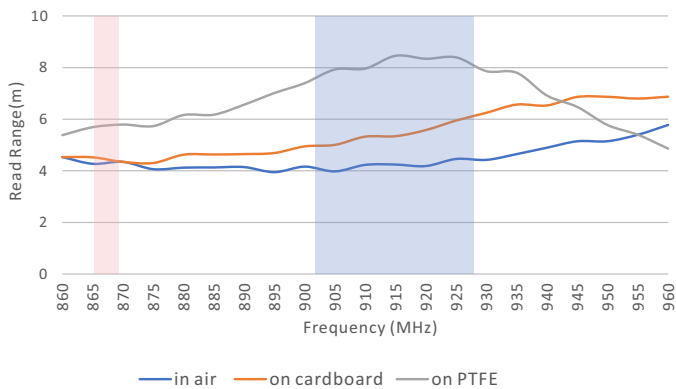
Application
 Authentication & Brand protection
 Digital product passport
 Food & Pharmaceuticals
 Supply Chain
 Hospitality & Events



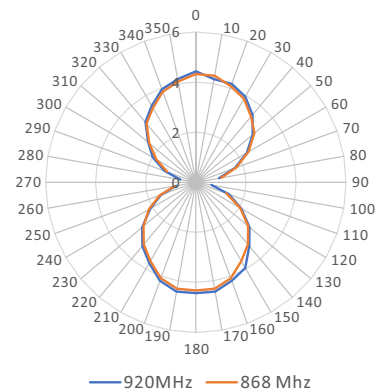
Technical Features

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	
Model	—	RC5133
Delivery Format	Dry Inlay	Label
Die-Cut Dimension	—	54 x 34 mm / 2.13 x 1.34 in
Inlay Substrate	50 um PET	50 um PET
Face Material	—	Coated Paper
Adhesive	—	Hot Melt
Standard Pitch	38 mm / 1.5 in	38 mm / 1.5 in
Web Width	63 mm / 2.48 in	67 mm / 2.60 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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