



FlexDT Slim

68 x 10 mm M830

The UHF RFID FPC Inlay is an FPC-based design compliant with the international EPCglobal Class 1 Gen 2 (ISO/IEC 18000-6C) standard across the 860–960 MHz frequency range. FPC materials offer high flexibility, excellent consistency, and superior stability, alongside waterproof and high-temperature resistant properties. It is ideal for non-metallic substrates and seamlessly integrates into smart manufacturing, industrial laundry, asset and equipment management, and supply chain tracking.

Encapsulated in polyimide (PI) material, these tags are waterproof and heat-resistant, enabling reliable operation in complex industrial environments. Lightweight, ultra-thin, and foldable, they withstand dynamic bending movements and are available in customizable sizes and form factors.

Powered by the Impinj M830 IC, the tag offers enhanced read/write sensitivity compared to the M700 series, delivering faster and more accurate bulk-reading performance. It supports the Kill Command feature to permanently disable tag data when required in retail environments, alongside robust access control for secure data management.

Overview

Frequency Band

UHF 860-960 MHz

Chip Type

Impinj M830

Dimensions

68 x 10 mm / 2.68 x 0.39 in

Air Interface Protocol

ISO/IEC 18000-63 Type C

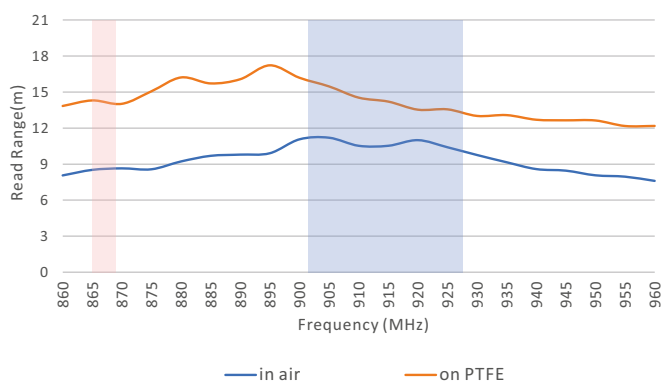
Application

Identity recognition
Logistics and tracking system
Anti-counterfeiting traceability

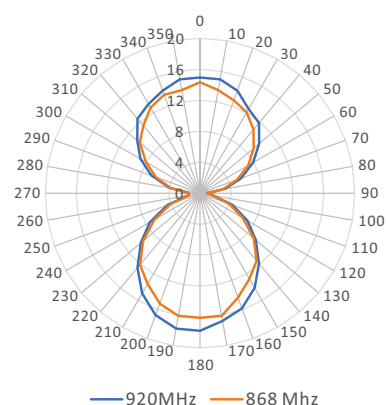


Model	RCF2101
RFID Features	
Air Interface Protocol	EPC Class 1 Gen 2 / ISO 18000-63 Type C
Frequency	860-960 MHz
Chip Type	Impinj M830
Memory	User - N/A; EPC - 128 bits; TID - 96 bits
Data Storage	> 10 years
Re-write	100,000 times
Read Range(2W ERP)	FCC: > 15.4 m(50.5 ft) , on PTFE ETSI: > 14.3 m(46.9 ft) , on PTFE
Physical Features	
Dimension	68 x 10 mm / 2.68 x 0.39 in
Material	FPC
Color	Yellow
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Survival Temperature	-40°C to 200°C / -40°F to 392°F
Storage Condition	20±5°C, 50±10% RH, Store away from sunlight
IP Rate	IP68, test for 5 hours at 1m deep water
Other Features	
Installation	Adhesive(clean and dry surface)
Certifications	Reach, RoHS, CE
Package	Single or roll

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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