



# FlexDT UHF FPC Tag

**68 x 10 mm M830**

UHF RFID FPC Inlay is an FPC design complies with the international standard ISO18000-6C level EPC Gen2 860-960MHz. FPC material are flexible, with good consistency and stability, as well as excellent properties such as waterproofing and high temperature resistance. It is suitable for various non-metallic environments and can be conveniently applied in intelligent manufacturing, industrial washing, asset equipment management, supply chain management.

UHF FPC tags are encapsulated with polyimide (PI) material. They are waterproof, high-temperature resistant, allowing them to operate in complex environments. These tags are lightweight, thin, foldable, and can withstand dynamic bending movements, with options available in multiple sizes and frequencies.

Equipped with the Impinj M830 IC. The IC has an Improved read / write sensitivity compared to the M700 series, enables faster, more accurate bulk reading performance. Supports kill command functionality for updating or disabling tag data when required in retail environments. Provides simple 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

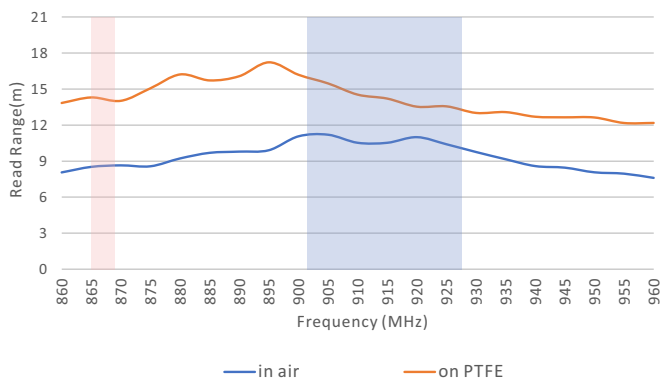
**Air Interface Protocol**  
 ISO/IEC 18000-63 Type C

**Application**  
 Identity recognition  
 Logistics and tracking system  
 Anti-counterfeiting traceability

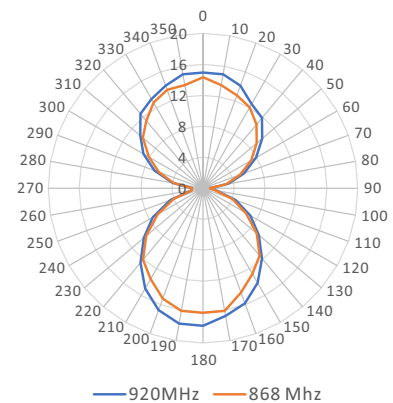
## Technical Features

Model	RCF2101
<b>RFID Features</b>	
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
<b>Physical Features</b>	
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
<b>Other Features</b>	
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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