

## EXPLORER Family

EX4428 - M730/750





#### Overview

#### **Application Area**

Paragon ID EXPLORER Family of inlays are optimally designed for global item level Retail inventory management, Brand Protection and Supply Chain applications

#### IC

The EX4428-M7 UHF inlays are based on the Impinj Monza M700 Serie RAIN ICs with antenna designs supporting all global frequencies, including FCC and ETSI.

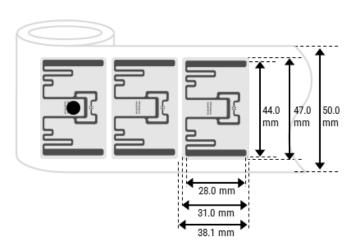
#### Paragon ID

Paragon ID is the largest EU based RFID inlay and label manufacturer with production facilities in Argent, France and Bucharest, Romania. Inlays are manufactured according to the highest ARC approved quality standards

#### Inlay specifications

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Standards	EPC Class1Gen2 V2 / ISO 18000-63		
Certificates	ARC Compliant, specs: F, I, L, O, Q, R, W2, W5, W6, Y, Y2		
Antenna size	44 x 28 mm / 1.73 x 1.10 in		
Antenna orientation	Wide edge leading (WEL)		
Substrate	PET 50 µm		
Antenna material	Aluminium, 10 μm		
Adhesive	Permanent		
Backing	Silicon paper		
Minimum Yield	98% or higher, 2 splices or less per roll		
Quality assurance	100 % performance tested		
Marking	Failed units marked*		
Shelf life	Two years from date of manufacturing when stored at 20 °C and <40% relative humidity		

#### **Dimensions**



#### IC specifications

Manufacturer	Impinj		
Model and Memory	M730: 128 bits EPC M750: 96 bits EPC, 32 bits User		
TID memory	96 bits, with 48 bits serial number		
Read Sensitivity	-24.0 dBm		
Write Sensitivity	-21.0 dBm		
Operating Temperature	-40°C up to +85°C -40°F up to +185°F		

<sup>\*</sup> Bad inlay can either be non-functional or show lower performances than expected



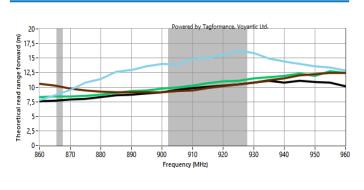


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## Theoretical read range

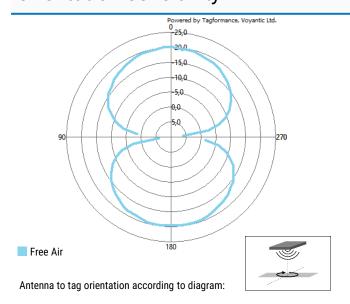


Free Air
Cardboard
PVC

Fabric

All graphs are generated under laboratory conditions. Real-life performance may vary. Reader power: 29 dBm. Antenna sensitivity: -70 dBm

## Orientation sensitivity



### **Delivery information**

	Delivery Format			
	Dry Inlay (2)	Wet Transparent Inlay	Paper-face Inlay	
Chip	M730 I M750	M730 I M750	M730 I M750	
Sales Code	135270 I 134796	134798 I 134799	135269 I 135275	
Antenna size	44 x 28 mm / 1.73 x 1.10 in	44 x 28 mm / 1.73 x 1.10 in	44 x 28 mm / 1.73 x 1.10 in	
Die-cut size	N/A	47 x 31 mm / 1.85 x 1.22 in	47 x 31 mm / 1.85 x 1.22 in	
Standard Pitch	38.10 mm / 1.50 in	38.10 mm / 1.50 in	38.10 mm / 1.50 in	
Web width	56.5 mm / 2.22 in	50 mm / 1.97 in	50 mm / 1.97 in	
Core inner diameter	76 mm / 2.99 in	76 mm / 2.99 in	76 mm / 2.99 in	
Quantity per roll (1)	20 000	10 000	3 000	



<sup>(2)</sup> Delivered with disposable compensation layer (interleaves)





To ensure this product meets application requirements, this product should be tested under conditions appropriate to the application. Paragon ID does not warrant that this product is fit for any particular use or purpose. The information provided in this datasheet is believed to be reliable to our current experience and knowledge, no rights however can be derived from the information provided in this datasheet. Paragon ID reserves the right to change or discontinue product offerings at any time without notice.

