

# EXPLORER Family

## EX5030 – M730/M750



### 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

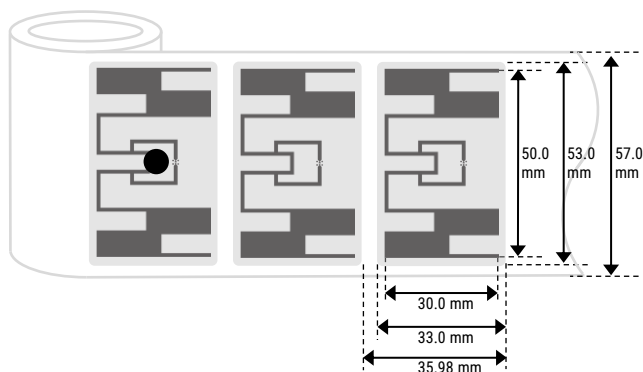
#### IC

The EX5030-M700 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

### Dimensions



### Inlay specifications

<b>Standards</b>	EPC Class1Gen2 V2 / ISO 18000-63
<b>Certificates</b>	ARC Compliant, specs: F, I, L, O, Q, R, W5, W6, Y2
<b>Antenna size</b>	50 x 30 mm / 1.97 x 1.18 in
<b>Antenna orientation</b>	Wide edge leading (WEL)
<b>Substrate</b>	PET 50 µm
<b>Antenna material</b>	Aluminum, 10 µm
<b>Adhesive</b>	Permanent
<b>Backing</b>	Silicon paper
<b>Minimum Yield</b>	99% for dry inlays 98% for wet transparent & paperface inlays
<b>Quality assurance</b>	100 % performance tested*
<b>Marking</b>	Failed units marked
<b>Shelf life</b>	Two years from date of manufacturing when stored at 20 °C and <40% relative humidity

### IC specifications

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

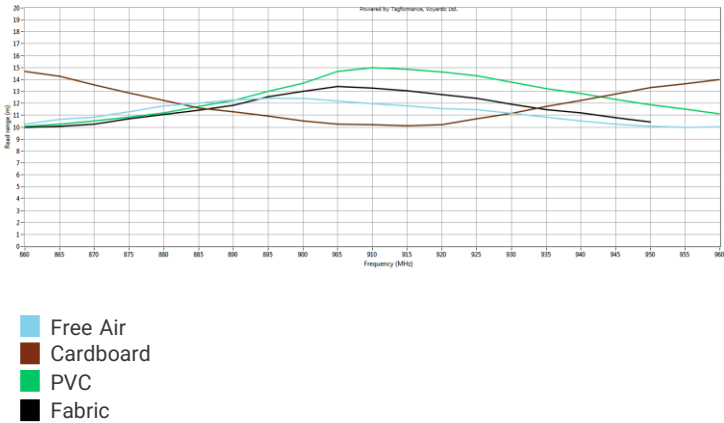
\* Bad inlay can either be non-functional or show lower performances than expected



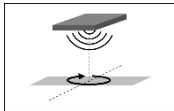
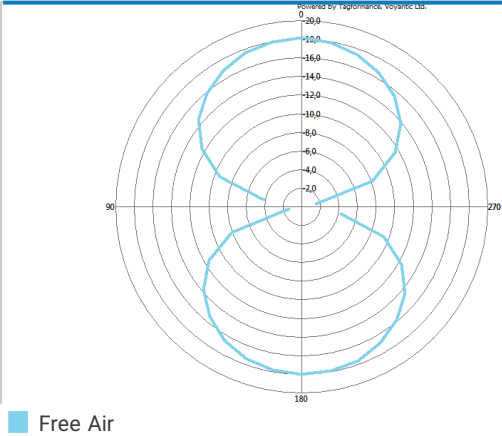
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Theoretical read range



Orientation sensitivity



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

Antenna to tag orientation according to diagram:

Delivery information

	Delivery Format		
	Dry Inlay (2)	Wet Transparent Inlay	Paper-face Inlay
Chip	M730   M750	M730   M750	M730   M750
Sales Code	135397   135398	135386   135387	135378   135379
Antenna size	50 x 30 mm / 1.97 x 1.18 in	50 x 30 mm / 1.97 x 1.18 in	50 x 30 mm / 1.97 x 1.18 in
Die-cut size	N/A	53 x 33 mm / 2.09 x 1.30 in	53 x 33 mm / 2.09 x 1.30 in
Standard Pitch	35.98 mm / 1.42 in	35.98 mm / 1.42 in	35.98 mm / 1.42 in
Web width	57 mm / 2.24 in	57 mm / 2.24 in	57 mm / 2.24 in
Core inner diameter	76 mm / 2.99 in	76 mm / 2.99 in	76 mm / 2.99 in
Quantity per roll (1)	25 000	20 000	3 400

(1) Quantity per Roll values are nominal with up to +/- 2% variation  
(2) Delivered with disposable compensation layer (interleaves)



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