

EXPLORER Family EX4420 - 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 EX4420-M7 UHF inlays are based on the based on the Impinj Monza M700 Serie RAIN ICs with antenna designs supporting all global frequencies, including FCC and ETSI.

Paragon ID

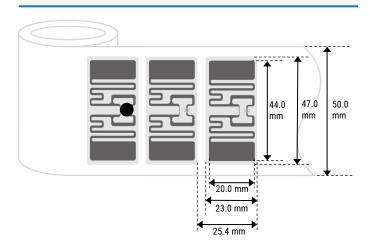
Paragon ID is the largest EU based RFID inlay and label manufacturer with production facilities in Argent, France and Bucharest, Romania. Inlays are manufactured according to the highest ARC approved quality standards

Inlay specifications

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Standards	EPC Class1Gen2 V2 / ISO 18000-63		
Certificates	ARC Compliant, specs: F, O, Q, R, W5, W6, Y2		
Antenna size	44 x 20 mm / 1.73 x 0.79 in		
Antenna orientation	Wide edge leading (WEL)		
Substrate	PET 50 μm		
Antenna material	Aluminium, 10 μm		
Adhesive	Permanent		
Backing	Silicon paper		
Minimum Yield	99% for dry inlays 98% for wet transparent & paperface inlays		
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		

^{*} Bad inlay can either be non-functional or show lower performances than expected

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		



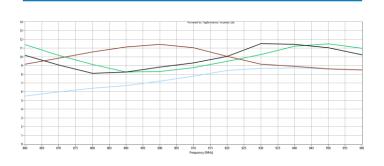


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Theoretical read range

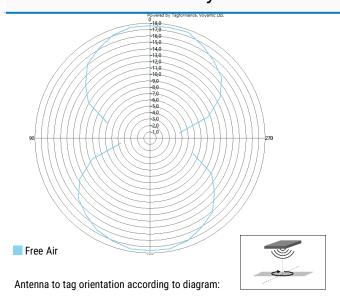


Free Air
Cardboard
PVC

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	135588 136001	135487 135488	134735 135484		
Antenna size	44 x 20 mm / 1.73 x 0.79 in	44 x 20 mm / 1.73 x 0.79 in	44 x 20 mm / 1.73 x 0.79 in		
Die-cut size	N/A	47 x 23 / 1.85 x 0.91 in	47 x 23 / 1.85 x 0.91 in		
Standard Pitch	25.40 mm / 1.00 in	25.40 mm / 1.00 in	25.40 mm / 1.00 in		
Web width	50 mm / 1.97 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)	35 000	22 000	4 000		

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





