

# EXPLORER Family EX4420 - U9





#### 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-U9 UHF inlays are based on the NXP Ucode 9 RAIN ICs with antenna designs supporting all global frequencies, including FCC and ETSI.

#### Paragon ID

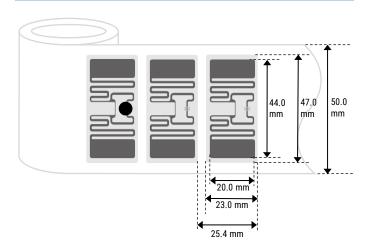
Paragon ID is the largest EU based RFID inlay and label manufacturer with production facilities in Argent, France and Bucharest, Romania. Inlays are manufactured according to the highest ARC approved quality standards

## Inlay specifications

- '			
Standards	EPC Class1Gen2 V2.1 / 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		

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

#### **Dimensions**



# Manufacturer NXP Model and Memory Ucode 9: 96 bits EPC TID memory 96 bits, with 48 bits serial number Read Sensitivity -24.0 dBm Write Sensitivity -22.0 dBm Operating -40°C up to +85°C

-40°F up to +185°F



**Temperature** 

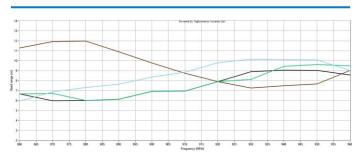


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# Theoretical read range

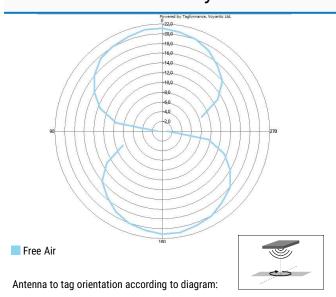


Free Air
Cardboard
PVC

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	Ucode 9	Ucode 9	Ucode 9
Sales Code	135587	135196	134884
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



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





