

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

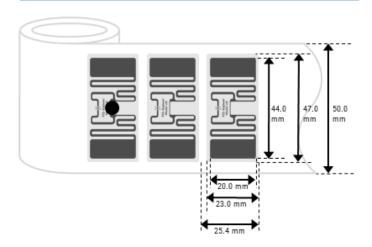
Paragon ID is the largest EU based RFID inlay and label manufacturer with production facilities in Argent, France and Bucharest, Romania. Inlays are manufactured according to the highest ARC approved quality standards

Inlay specifications

may opeomound			
EPC Class1Gen2 V2.1 / ISO 18000-63			
ARC Compliant, specs: F, O, Q, R, W2, W5, W6, Y, Y2			
44 x 20 mm / 1.73 x 0.79 in			
Wide edge leading (WEL)			
PET 50 μm			
Aluminium, 10 μm			
Permanent			
Silicon paper			
98% or higher, 2 splices or less per roll			
100 % performance tested			
Failed units marked*			
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	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 Temperature	-40°C up to +85°C -40°F up to +185°F		



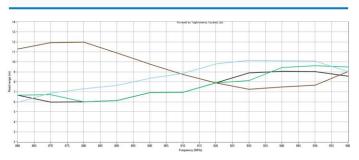


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Theoretical read range

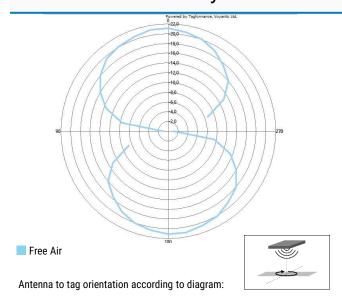


Free Air
Cardboard
PVC

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	Ucode 9	Ucode 9	Ucode 9	
Sales Code	134711	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	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	4 000	



⁽²⁾ Delivered with disposable compensation layer (interleaves)





