

EXPLORER Family EX7014 - 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 EX7014-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

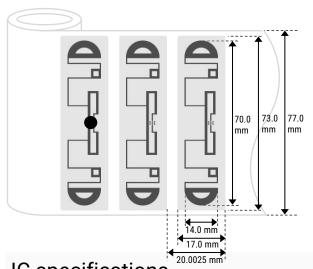
Paragon ID is the largest EU based RFID inlay and label manufacturer with production facilities in Argent, France and Bucharest, Romania. Inlays are manufactured according to the highest ARC approved quality standards

Inlay specifications

may operations			
Standards	EPC Class1Gen2 V2.1 / ISO 18000-63		
Certificates	ARC Compliant, specs: F, I, L, O, Q, R, W5, W6, Y2		
Antenna size	70 x 14 mm / 2.76 x 0.55 in		
Antenna orientation	Wide edge leading (WEL)		
Substrate	PET 50 μm		
Antenna material	Aluminum, 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	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	-17.0 dBm		
Operating Temperature	-40°C up to +85°C -40°F up to +185°F		



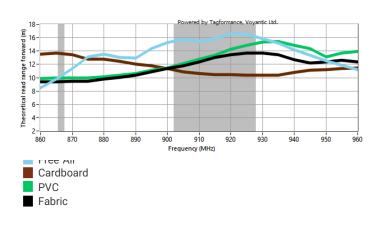






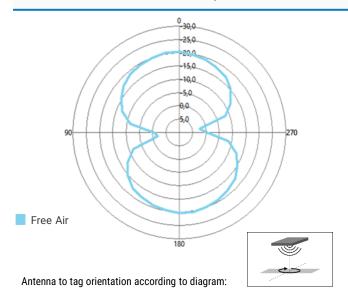


Theoretical read range



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	U9	U9	U9		
Sales Code	135528	136267	136268		
Antenna size	70 x 14 mm / 2.76 x 0.55 in	70 x 14 mm / 2.76 x 0.55 in	70 x 14 mm / 2.76 x 0.55 in		
Die-cut size	N/A	73 x 17 mm / 2.87 x 0.67 in	73 x 17 mm / 2.87 x 0.67 in		
Standard Pitch	20.0025 mm / 0.79 in	20.0025 mm / 0.79 in	20.0025 mm / 0.79 in		
Web width	81 mm / 3.03 in	77 mm / 3.03 in	77 mm / 3.03 in		
Core inner diameter	76 mm / 2.99 in	76 mm / 2.99 in	76 mm / 2.99 in		
Quantity per roll (1)	45 000	28 000	6 000		

- (1) Quantity per Roll values are nominal with up to +/- 2% variation
- (2) 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.

