PARAG©N ID

EXPLORER Family EX4216 - 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 EX4216-U9 UHF inlays are based on the NXP Ucode 9 RAIN ICs with antenna designs supporting all global frequencies, including FCC and ETSI.

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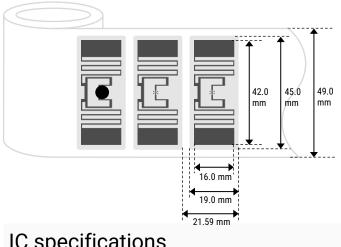
Paragon ID is the largest EU based RFID inlay and label manufacturer with production facilities in Argent, France and Bucharest, Romania. Inlays are manufactured according to the highest ARC approved quality standards



Standards	EPC Class1Gen2 V2.1 / ISO 18000-63		
Certificates	ARC Spec F, O, Q, W5, W6		
Antenna size	42 x 16 mm / 1.65 x 0.63 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	-22.0 dBm	
Operating Temperature	-40°C up to +85°C -40°F up to +185°F	

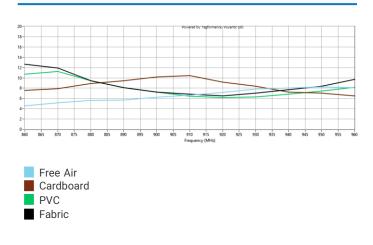


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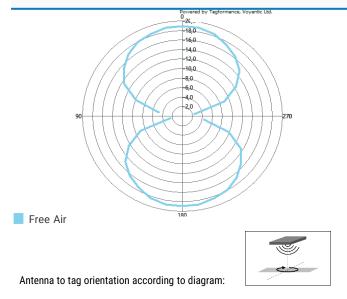


Theoretical read range



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	Ucode 9	Ucode 9	Ucode 9
Sales Code	135431	135551	135552
Antenna size	42 x 16 mm / 1.65 x 0.63 in	42 x 16 mm / 1.65 x 0.63 in	42 x 16 mm / 1.65 x 0.63 in
Die-cut size	N/A	45 x 19 mm / 1.77 x 0.75 in	45 x 19 mm / 1.77 x 0.75 in
Standard Pitch	21.59 mm / 0.85 in	21.59 mm / 0.85 in	21.59 mm / 0.85 in
Web width	49 mm / 1.93 in	49 mm / 1.93 in	49 mm / 1.93 in
Core inner diameter	76 mm / 2.99 in	76 mm / 2.99 in	76 mm / 2.99 in
Quantity per roll (1)	40 000	25 000	5 000

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



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