

VOYAGER Family

VG6034 – U9



Overview

Application Area

Paragon ID VOYAGER Family of inlays are optimally designed for global item level inventory management for Aviation applications.

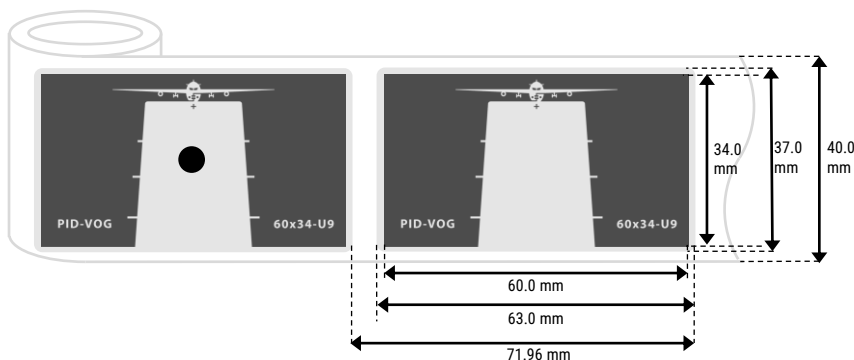
IC

The VG6034-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.

Dimensions



Inlay specifications

Standards	EPC Class1Gen2 V2.1 / ISO 18000-63
Certificates	ARC Compliant, spec: U
Antenna size	60 x 34 mm / 2.36 x 1.34 in
Antenna Orientation	Narrow edge leading (NEL)
Substrate	PET 50 µm
Antenna	Aluminum, 10 µm
Adhesive	Permanent
Backing	Silicon paper
Minimum Yield	98% or higher, 2 splices or less per roll
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

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

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

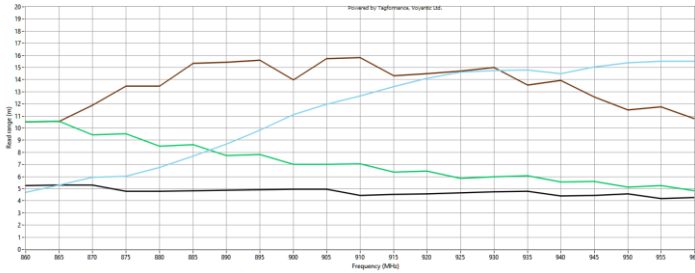


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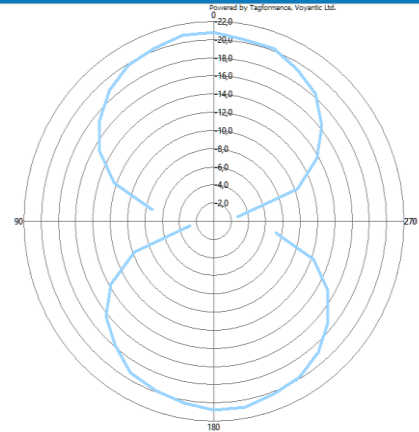
Theoretical read range



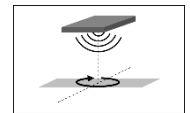
- Free Air
- Cardboard
- Plastic 2
- Rubber 2

All graphs are generated under laboratory conditions. Real-life performance may vary. Reader power : 29 dBm. Antenna sensitivity : -70 dBm

Orientation sensitivity



- Free Air



Antenna to tag orientation according to diagram:

Delivery information

	Delivery Format		
	Dry Inlay (2)	Wet Transparent Inlay	Paper-face Inlay
Chip	U9	U9	U9
Sales Code	134860	135529	134899
Antenna size	60 x 34 mm / 2.36 x 1.34 in	60 x 34 mm / 2.36 x 1.34 in	60 x 34 mm / 2.36 x 1.34 in
Die-cut size	N/A	63 x 37 mm / 2.48 x 1.46 in	63 x 37 mm / 2.48 x 1.46 in
Standard Pitch	71.96 mm / 2.83 in	71.96 mm / 2.83 in	71.96 mm / 2.83 in
Web width	54 mm / 2.13 in	40 mm / 1.57 in	40 mm / 1.57 in
Core inner diameter	76 mm / 2.99 in	76 mm / 2.99 in	76 mm / 2.99 in
Quantity per roll (1)	7 000	5 000	1 700

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



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