



## DOGBONE™

Excellent Global Performance even on Difficult-To-Tag Materials

SMARTRAC's DOGBONE™ inlays and tags are designed for global supply chain, industrial and RTI applications, offer excellent performance in demanding environments and on different materials.

DOGBONE inlays and tags have a good tolerance to the detuning effect of high-electric materials, providing effective global performance even on difficult-to-tag materials. They are available with the NXP UCODE G2iL chip that offers unique TID.

The inlay is size-optimized for 100 mm / 4 inch wide converted labels, and is available in dry, wet and paper tag delivery formats.

SMARTRAC's inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, enhancing RFID usage for difficult-to-tag materials.

### Overview

#### Operating Frequency

860 - 960 MHz

#### Integrated Circuit (IC)

NXP UCODE G2iL

#### Antenna Size

88 × 24 mm (3.5 × 1.0 in)

#### Die-cut Size

97 × 27 mm (3.8 × 1.1 in)

### International Standards

- ▶ EPC Class 1 Gen 2
- ISO 18000-6C

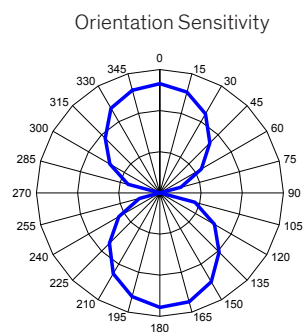
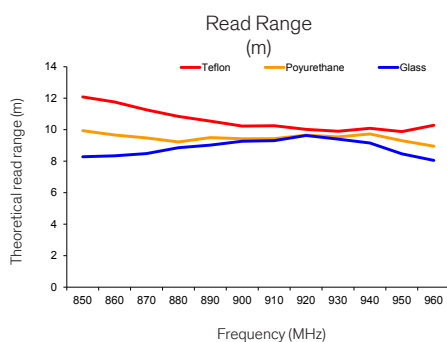
### Application Areas

- ▶ Industry
- ▶ Supply Chain Management
- ▶ Sports Timing

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Technical Features			
<b>IC + Memory</b>	<b>Size</b>	<b>Format</b>	<b>Sales Code</b>
NXP UCODE G2iL	88 × 24 mm / 3.5 × 0.9 in	Dry	3002036
128 bit	97 × 27 mm / 3.8 × 1.1 in	Wet	3002037
	97 × 27 mm / 3.8 × 1.1 in	Paper Tag	3002038
Web Width	100 mm / 3.94 in		
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F		
Adhesive	Acrylic, water borne adhesive		
Qty/Reel	10,000 dry inlays per reel, 5,000 wet inlays per reel, 3,000 tags per reel		
Core Size	76 mm / 3 in		
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing		



All the graphs are indicative: performance in real life applications may vary. The data has been determined based on calculations for transmitters with a 2W ERP output power level.

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