

## DOGBONE

Excellent Global Performance even on Difficult-To-Tag Material

Smartrac DOGBONE inlays and tags are designed for industry and supply-chain applications, offering excellent performance on difficult-to-tag materials such as cardboard and plastic, glass and in other demanding, close-coupling environments.

DOGBONE inlays and tags have a good tolerance to the detuning effects of high-electric materials and provide with the optimized size 97 × 27 mm effective global performance. They can be easily converted into end-application usage, and are available in dry, wet and paper tag delivery formats. DOGBONE equipped with NXP UCODE 8 offers same memory size and typical IC features as NXP UCODE 7. Furthermore, it offers a Self Adjust feature to maximize product performance in challenging environments and has an improved read and write sensitivity and faster encoding speed compared to NXP UCODE 7. Furthermore, the chip has an integrated Brand Identifier function to prove product authenticity and a memory safeguard system to protect business data.

DOGBONE benefits from the capabilities of Smart Cosmos: Smartrac's IoT platform can record and manage a complete set of unique transponder data (e.g. UID no., order no., batch no., or yield) at production level in a controlled and secure way. As the backbone of Smartrac's product digitization solutions, Smart Cosmos enables full traceability of delivered RFID products and provides reliable quality assurance.

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, especially in the retail environment.

### Overview

#### Operating Frequency

860 - 960 MHz

#### Integrated Circuit (IC)

NXP UCODE 8

#### Antenna Size

94 × 24 mm (3.7 × 0.9 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

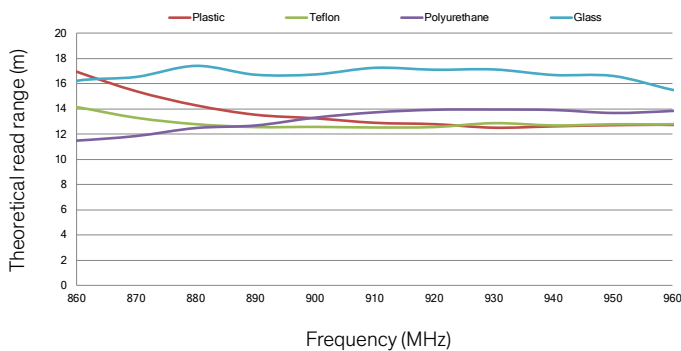
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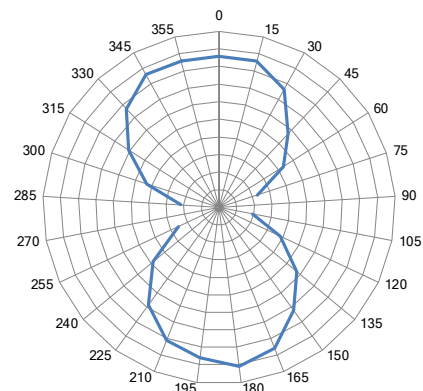
Technical Features				
<b>IC + Memory</b> NXP UCODE 8 128 bit EPC	<b>Size</b>	<b>Format*</b>	<b>Sales Code</b>	<b>Reel Size</b>
	94 × 24 mm / 3.7 × 0.9 in	Inlay	3006908	10,000
	97 × 27 mm / 3.8 × 1.1 in	Wet	3006910	10,000
	97 × 27 mm / 3.8 × 1.1 in	Paper Tag	3006909	3,000
Web Width	100 mm / 3.94 in			
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F			
Adhesive	Acrylic, water borne adhesive			
Core Size	76 mm / 3 in			
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing			

\* Note: Other formats are available upon request.

Read Range (m)



Orientation Sensitivity



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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