



## DOGBONE™

### Excellent Global Performance with Extended Memory

SMARTRAC DOGBONE™ inlays and tags with the new high memory ICs from NXP UCODE family are designed for global supply chain, industrial, RTI and applications, and offer excellent performance in demanding environments and on different materials.

DOGBONE inlays and tags have good tolerance and performance on difficult-to-tag or low-detuning materials such as cardboard and plastics, and in other demanding environments. They are available with the latest NXP UCODE products, like UCODE 7XM and 7XM+ with extended memory, supporting 1kbit / 2 kbit of user memory and 448 bit EPC memory. In addition, UCODE DNA is the world's first UHF IC to combine long-range read performance with cryptographic authentication and offers 3 kbit of user memory and 224 bit EPC memory. All chips offer unique TID and enable pre-serialized EPC, parallel encoding and provides a product status flag.

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 with extended user memory needs.

#### Overview

##### Operating Frequency

860 - 960 MHz

##### Integrated Circuit (IC)

NXP UCODE 7XM, 7XM+ and UCODE DNA

##### 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

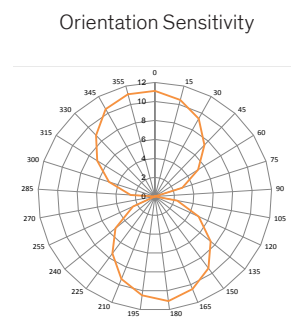
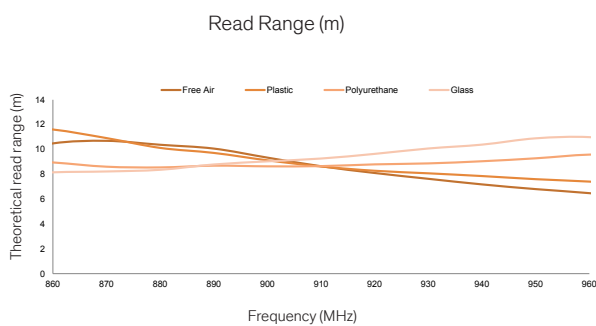
- ▶ Automotive
- ▶ Industry
- ▶ Supply Chain Management

## DOGBONE™

Excellent Global Performance with Extended Memory

Technical Features			
<b>IC + Memory*</b> NXP UCODE 7XM 448bit EPC	<b>Size</b>	<b>Format</b>	<b>Sales Code</b>
	94 × 24 mm / 3.7 × 0.9 in	Dry	3005086
	97 × 27 mm / 3.8 × 1.1 in	Wet	3005085
	97 × 27 mm / 3.8 × 1.1 in	Paper tag	3005087
Web Width	100 mm / 3.9 in		
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F		
Adhesive	Acrylic, water borne adhesive	& solvent-free permanent adhesive	
Qty/Reel	3,000 pcs / 5,000 pcs / 10,000 pcs.		
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 IC memories are available upon request.



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.

SMARTRAC N.V. · Strawinskylaan 851 · 1077 XX Amsterdam · The Netherlands

Phone: +31 20 30 50 150 · Fax: +31 20 30 50 155

Contact: Sales & Customer Service

[www.smartrac-group.com/contact](http://www.smartrac-group.com/contact)



© 2018 SMARTRAC N.V.

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use.

