

# Dogbone<sup>®</sup> UCODE 7

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

NXP UCODE 7

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**Antenna Dimensions**

94 x 24 mm / 3.70 x 0.95 in

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**International Standard**

ISO 18000-6C, EPC Class 1 Gen 2

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**Industry Segments**

Automotive  
Industrial Applications  
Sports and Events

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**Applications**

Sports Timing  
Glass and Automobile Tracking  
Inventory

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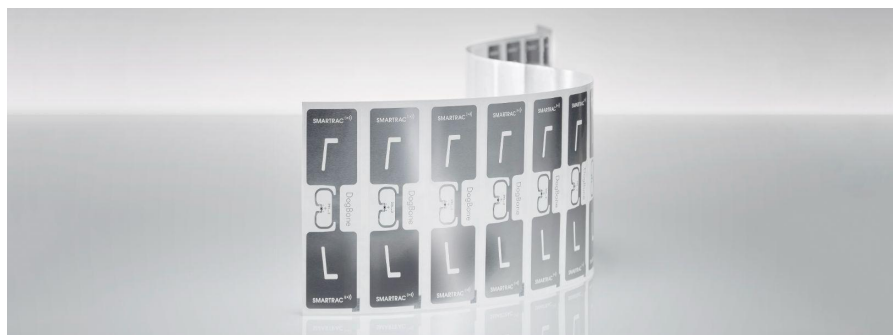
**RoHS**

EU Directive 2011/65/EC and  
Directive (EU) 2015/863

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**REACH**

Regulation (EC) No. 1907/2006



## Excellent global performance even on difficult-to-tag materials

Our Dogbone<sup>®</sup> inlays and tags are designed for global supply chain, industrial, RTI and sports timing applications, and offer excellent performance in demanding environments and on different materials.

Dogbone<sup>®</sup> inlays and tags have a good tolerance to the detuning effect of high dielectric materials, providing effective global performance even on difficult-to-tag materials. They are available with the NXP UCODE 7 chip that offers 128 bits of EPC memory.

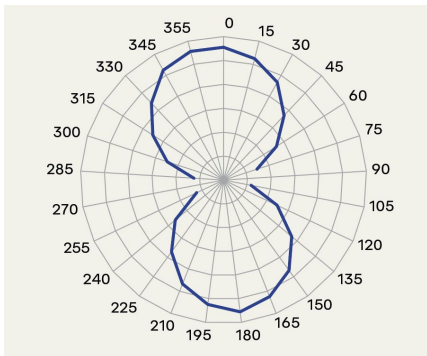
The inlay is size-optimized for 100 mm / 4 inch wide converted labels, and is available in dry, wet and label /sticker delivery formats.

Our 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.

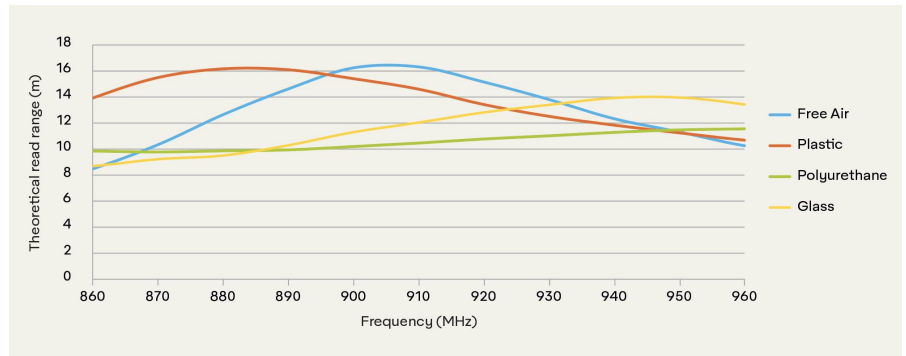
## Technical features

Chip	NXP UCODE 7		
EPC and User Memory	128-bit		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	3003019	3003020	3003021
Delivery Format	Dry inlay	Wet inlay	Label / sticker
Die-Cut Dimension	–	97 x 27 mm / 3.82 x 1.06 in	97 x 27 mm / 3.82 x 1.06 in
Inlay Substrate	PET	PET	PET
Face Sheet	Clear PET 12	Clear PET 12	Opaque Matt Paper 79
Standard Pitch	30 mm / 1.181 in	30 mm / 1.181 in	30 mm / 1.181 in
Web Width	97 mm / 3.819 in	100 mm / 4 in	100 mm / 4 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	10,000 pcs/reel 10,000 pcs/box	5,000 pcs/reel 5,000 pcs/box	3,000 pcs/reel 3,000 pcs/box
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		

## Orientation sensitivity



## Read range



All graphs are indicative: performance in real life applications may vary.

### Contact information

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Connect with us on:



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**Warranty:** Please refer to Avery Dennison standard terms and conditions: [rfid.averydennison.com/termsandconditions](http://rfid.averydennison.com/termsandconditions)

**Care and handling:** RFID inlays are sensitive to ESD. Observe standard industry practices relating to electronics / RFID to keep environmental impact and static charge to a minimum.

**Applications:** This product should be tested by the customer / user thoroughly under end use conditions to ensure the product meets the particular requirements. Avery Dennison does not represent that this product is fit for any particular purpose or use. Avery Dennison reserves the right to modify, change, supplement or discontinue product offerings at any time without notice. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.

