

# Dogbone<sup>®</sup> UCODE 7XM

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

NXP UCODE 7XM

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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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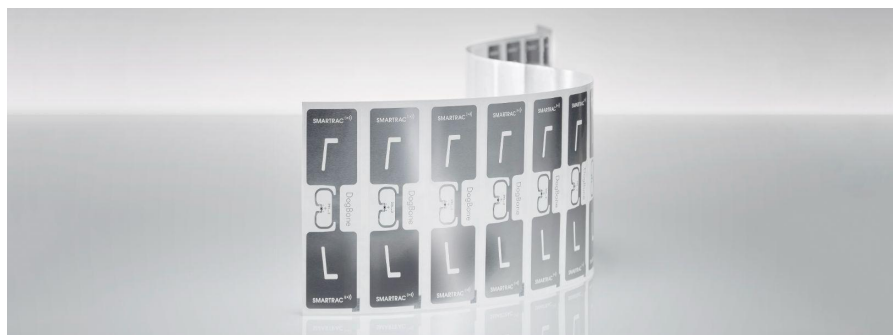
**RoHS**

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 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<sup>®</sup> 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 1 kbit / 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 provide a product status flag.

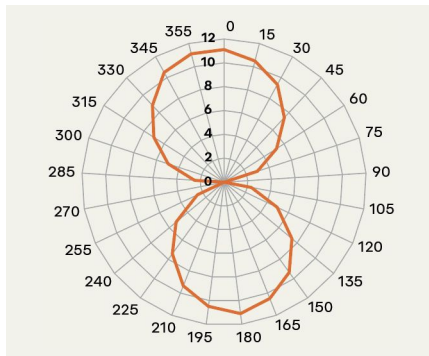
The inlay is size-optimized for 100 mm / 4 inch wide converted labels, and is available in dry, wet and label / sticker delivery formats.

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.

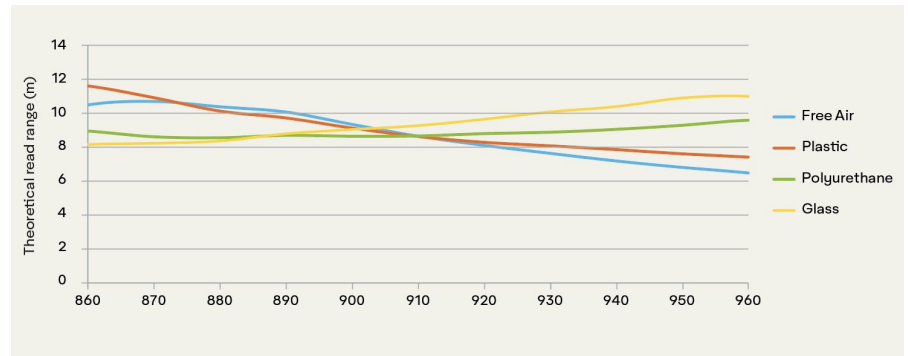
## Technical features

Chip	NXP UCODE 7XM		
EPC and User Memory	448-bit and 2048-bit	448-bit and 1024-bit	448-bit and 2048-bit
TID Memory	96-bit / 48-bit unique serial number		
Product Code	3005085	3005086	3005087
Delivery Format	Wet inlay	Dry 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	Clear PET	Mid-gloss paper
Standard Pitch	30 mm / 1.181 in	30 mm / 1.181 in	30 mm / 1.181 in
Web Width	100 mm / 4 in	97 mm / 3.8 in	100 mm / 4 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	5,000 pcs/reel 5,000 pcs/box	10,000 pcs/reel 10,000 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](https://www.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.

