

# Belt

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

NXP UCODE 8

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**Antenna Dimensions**

70 x 14 mm / 2.75 x 0.55 in

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**International Standard**

ISO 18000-63, EPC Class 1 Gen 2

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**Industry Segments**

Apparel  
Industrial Applications

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**Applications**

Brand Protection  
Supply Chain Management  
Home Essentials

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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



## Compact size and high performance in item-level tagging

Our Belt inlays and tags are designed for global retail, industry and supply-chain applications, offering excellent performance on difficult-to-tag or low-detuning materials such as cardboard and plastic, and in other demanding, close-coupling environments.

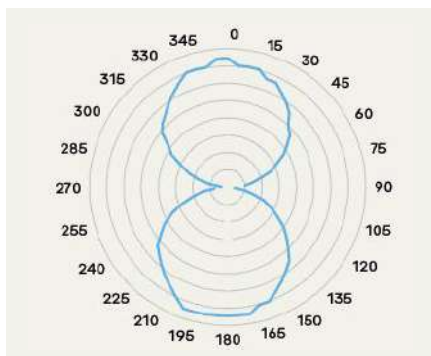
Belt inlays and tags have a compact 73 mm / 2.8 inch form factor, which can be easily converted into end-application usage, and are available in dry, wet and label / sticker delivery formats. Belt equipped with NXP UCODE 8 offers the same memory size and typical IC features as NXP UCODE 7. Furthermore, 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 band identifier function to prove product authenticity and a memory safeguard system to protect business data.

Belt with the NXP UCODE 8 IC, used in retail applications, is included on the approved inlay list by the RFID Research Center at the University of Auburn, and complies with categories A, B, C, D, F, G, I, K, M, N and Q. Furthermore, it meets GS1 Tagged-Item Performance Protocol (TIPP) Tagged-Item Gratings M10B S15B, M15B S15B and M20D S15D for the retail supply chain, retailers and suppliers.

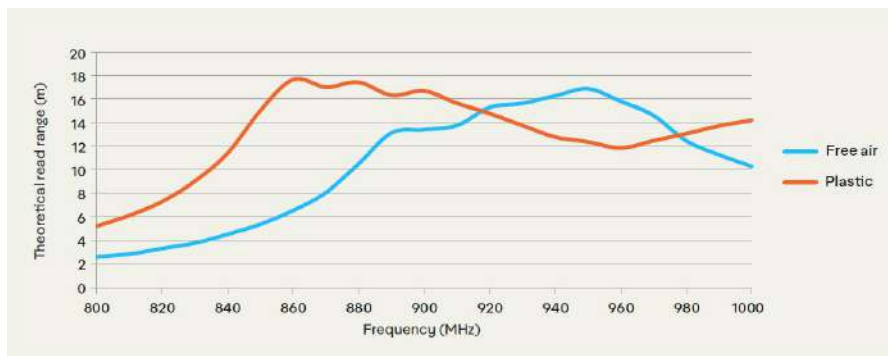
## Technical features

Chip	NXP UCODE 8		
EPC and User Memory	128-bit and n/a		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	3006809	3006818	3006806
Delivery Format	Dry inlay	Wet inlay	Label / sticker
Die-Cut Dimension	–	73 x 17 mm / 2.87 x 0.67 in	73 x 17 mm / 2.87 x 0.67 in
Inlay Substrate	PET	PET	PET
Face Sheet	–	CLEAR PET	Mid-gloss paper
Standard Pitch	20 mm / 0.787 in	20 mm / 0.787 in	20 mm / 0.787 in
Web Width	80 mm / 3 in	80 mm / 3 in	80 mm / 3 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	20,000 pcs/reel 20,000 pcs/box	20,000 pcs/reel 40,000 pcs/box	5,000 pcs/reel 10,000 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

rfid.averydennison.com/contact  
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**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.



# Dogbone<sup>®</sup> UCODE 8

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

NXP UCODE 8

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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 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.

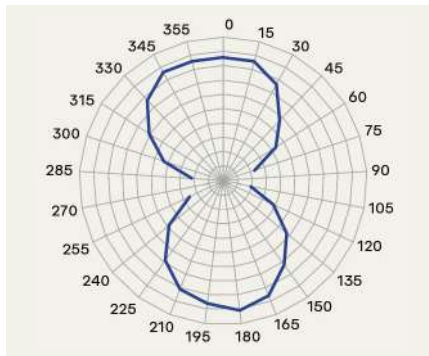
Dogbone<sup>®</sup> inlays and tags have a good tolerance to the detuning effects of high dielectric materials and provide effective global performance. They can be easily converted into end-application usage, and are available in dry, wet and paper tag delivery formats. Dogbone<sup>®</sup> is equipped with NXP UCODE 8 and offers the 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.

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.

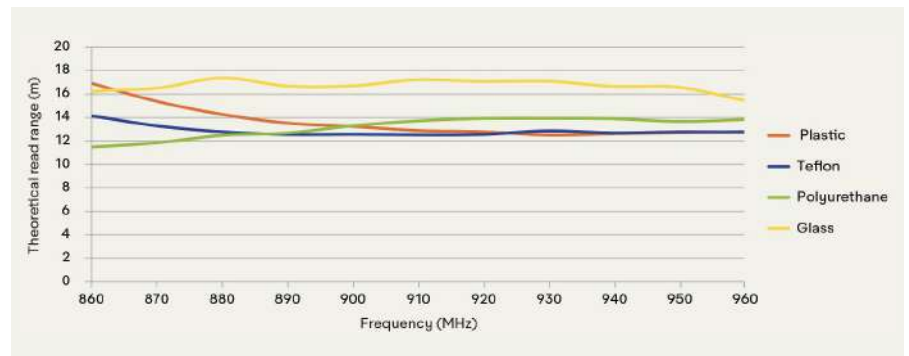
## Technical features

Chip	NXP UCODE 8		
EPC and User Memory	128-bit and n/a		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	3006908	3006910	3006909
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	10,000 pcs/reel 10,000 pcs/box	3,000 pcs/reel 6,000 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.

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# Miniweb U8

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

NXP UCODE 8

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**Antenna Dimensions**

42 x 16 mm / 1.65 x 0.63 in

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**International Standard**

ISO 18000-6C, EPC Class 1 Gen 2

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**Industry Segments**

Apparel  
Logistics  
Healthcare

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**Applications**

Supply Chain Management  
Home Essentials  
Inventory and Logistics

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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



## Ideal for small apparel labels

Our Miniweb inlays and tags are designed for global retail, industry and supply-chain applications, offering excellent performance on difficult-to-tag or low-detuning materials such as cardboard and plastic, and in other demanding, close-coupling environments.

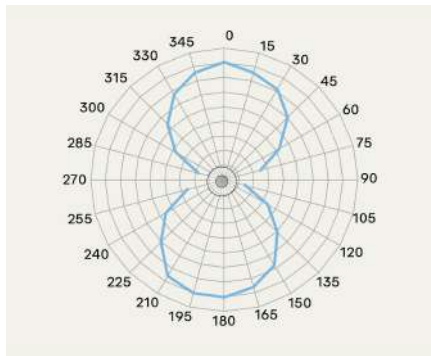
Miniweb inlays and tags have a compact size 45 x 18 mm, which can be easily converted into end-application usage, and are available in dry, wet and label / sticker delivery formats. Miniweb equipped with NXP UCODE 8 offers the same memory size and typical IC features as NXP UCODE 7. Furthermore, it offers 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.

Miniweb with the NXP UCODE 8 IC, passed ARC categories F, G, M, N, Q, W2, W5, W6.

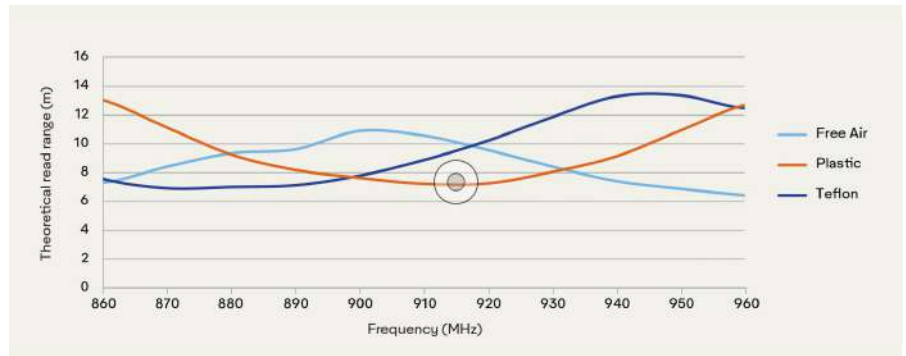
## Technical features

Chip	NXP UCODE 8		
EPC and User Memory	128-bit		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	3007033	3007034	3007035
Delivery Format	Dry inlay	Wet inlay	Label / sticker
Die-Cut Dimension	-	45 x 18 mm / 1.80 x 0.70 in	45 x 18 mm / 1.80 x 0.70 in
Inlay Substrate	PET	PET	PET
Face Sheet	-	Clear PET	Mid-gloss paper
Standard Pitch	20 mm / 0.787 in	20 mm / 0.787 in	20 mm / 0.787 in
Web Width	48 mm / 1.9 in	48 mm / 1.9in	48 mm / 1.9 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	10,000 pcs/reel 20,000 pcs/box	20,000 pcs/reel 40,000 pcs/box	5,000 pcs/reel 10,000 pcs/box
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		
Certificates	ARC		

## Orientation sensitivity



## Read range



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# Web

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

NXP UCODE 8

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**Antenna Dimensions**

50 x 30 mm / 1.97 x 1.18 in

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**Die-cut Dimensions**

54 x 25 mm / 2.13 x 0.98 in (folded)

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**International Standard**

ISO 18000-6C, EPC Class 1 Gen 2

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**Industry Segments**

Apparel  
Logistics

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**Applications**

Supply Chain Management  
Home Essentials  
Brand Protection

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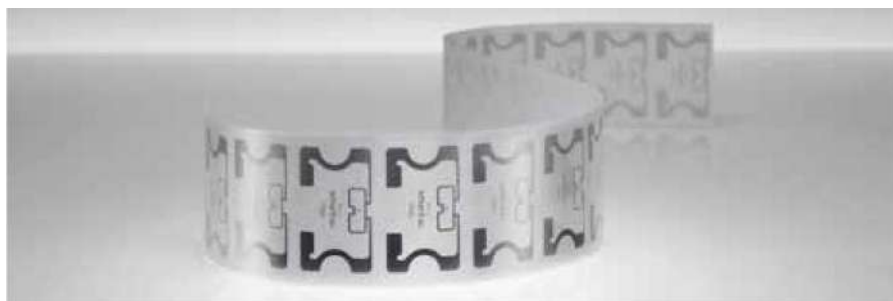
**RoHS**

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

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**REACH**

Regulation (EC) No 1907/2006



## Optimized size and shape for apparel applications

Our Web inlays and tags are designed for the unique identification of items such as apparel and electronics. They are suitable especially for item-level retail, logistics and supply chain applications.

Web inlays and tags are compact and ideally shaped inlays for apparel hang tags providing high read reliability, excellent performance even when stacked in close proximity with low total applied costs.

Web equipped with NXP UCODE 8 offers the 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. The chip has an integrated Brand Identifier function to prove product authenticity and a memory safeguard system to protect business data.

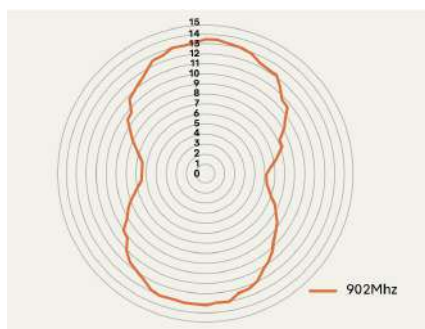
Web tags with the NXP UCODE 8 IC, used in retail applications, have passed the Auburn Radio Compliance (ARC) tests A, B, C, D, F, G, I, K, L, M, N, W1, W2, W3, W4, W5, W6 and Q defined by the RFID Research Center at the University of Auburn. It is also tested to meet GS1 Tagged-Item Performance Protocol (TIPP) Tagged-Item Gradings M10B, M15B and S15B for the retail supply chain, retailers and suppliers.

Retailers and brand owners can deploy our Web tags for apparel globally, as they comply with frequency regulations set up in the US(FCC), EU (ETSI) and Asia.

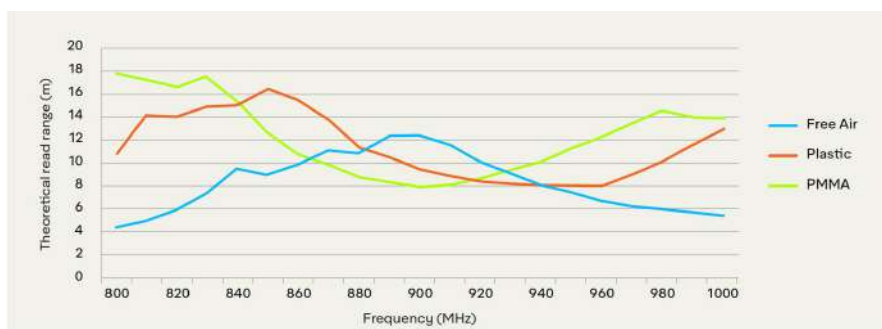
## Technical features

Chip	NXP UCODE 8		
EPC and User Memory	128-bit		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	3007188	3007189	3007190
Delivery Format	Dry inlay	Wet inlay	Label / sticker
Die-Cut Dimension	-	54 x 33 mm / 2.13 x 1.30 in	54 x 33 mm / 2.13 x 1.30 in
Inlay Substrate	PET	PET	PET
Face Sheet	-	Clear PET	Mid-gloss paper
Standard Pitch	36 mm / 1.417 in	36 mm / 1.417 in	36 mm / 1.417 in
Web Width	60 mm / 2.4 in	60 mm / 2.4 in	60 mm / 2.4 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	10000 pcs/reel	15000 pcs/reel 45000 pcs/box	3000 pcs/reel 9000 pcs/reel
Operating Temperature	-40 °C to 85 °C -40 °F to 185 °F		

## Orientation sensitivity



## Read range



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