

# AD Longbow U9

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

NXP UCODE 9

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**Antenna Dimensions**

70 x 8 mm / 2.756 x 0.315 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/EU and  
Directive (EU) 2015/863

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**REACH**

Regulation (EC) No. 1907/2006



## High performance in a tiny package for item-level tagging

AD Longbow U9 is a new, narrow-footprint product designed for global retail and industrial applications where space is limited. It offers outstanding performance on difficult-to-tag or low-detuning materials such as cardboard and plastic, and in other demanding, close-coupling environments.

AD Longbow U9 inlays and tags have a super-compact 73 x 10 mm form factor, which can be easily converted into end-application usage, and are available in dry, wet and label / sticker delivery formats. AD Longbow is equipped with the NXP UCODE 9 IC, which offers 96-bit of EPC memory. Furthermore, it offers a self-adjust feature to maximize product performance in challenging environments, and has improved read and write sensitivity and faster encoding speed compared to NXP UCODE 8.

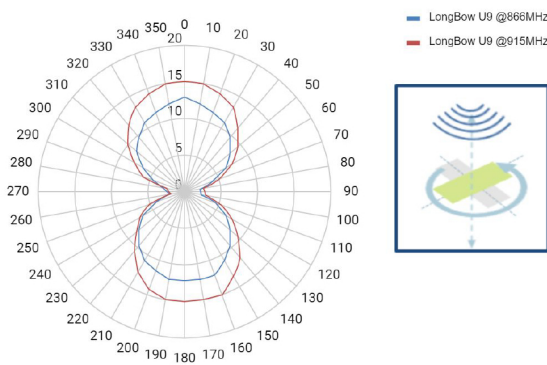
AD Longbow with the NXP UCODE 9 IC is included on the approved list for retail applications of the RFID Research Center at the University of Auburn, and complies with categories F, G, I, K, M, N, L, Q, W1, W2, W3, W4, W5 and W6.

Avery Dennison 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.

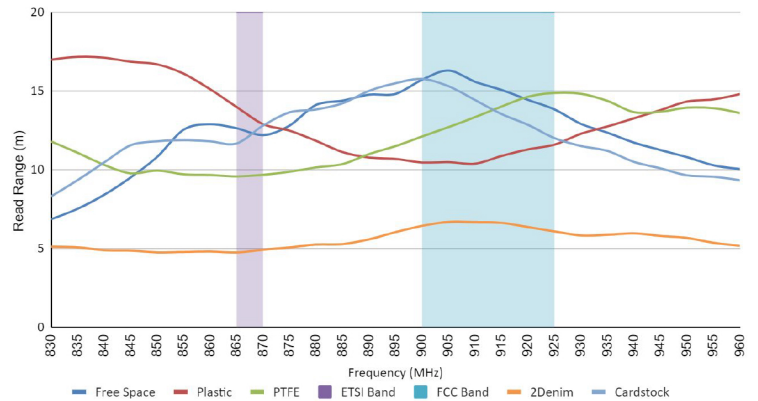
## Technical features

Chip	NXP UCODE 9			
EPC and User Memory	96-bit and n/a			
TID Memory	96-bit / 48-bit unique serial number			
Product Code	3008001 / IL-603996	3008198 / IL-604144	3008002 / IL-603997	3008664 / IL-604503
Delivery Format	Dry inlay	Wet inlay	Label	Label
Die-Cut Dimension	-	73 x 10 mm / 2.87 x 0.39 in	73 x 10 mm / 2.87 x 0.39 in	73 x 10 mm / 2.87 x 0.39 in
Inlay Substrate	PET	PET	PET	PET
Face Sheet	-	-	Mid-gloss paper	Mid-gloss paper
Standard Pitch	15 mm / 0.591 in	15 mm / 0.59 in	15 mm / 0.59 in	25.4 mm / 1.00 in
Web Width	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	20,000 pcs / reel 80,000 pcs / box	20,000 pcs / reel 20,000 pcs / box	5,000 pcs / reel 10,000 pcs / box	5,000 pcs / reel 10,000 pcs / box
Operating Temperature	-40°C to 85°C / -40°F to 185°F			
Certificate	ARC			

## Orientation sensitivity



## Read range



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



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