

AD Longbow U9

Overview

Frequency Band

UHF 860 - 960 MHz

Chip

NXP UCODE 9

Antenna Dimensions

70 x 8 mm / 2.756 x 0.315 in

International Standard

ISO 18000-63, EPC Class 1 Gen 2

Industry Segments

Apparel
Industrial Applications

Applications

Brand Protection
Supply Chain Management
Home Essentials

RoHS

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

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.

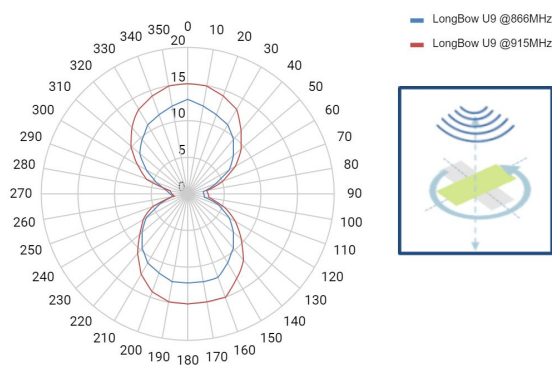
AD Longbow with the NXP UCODE 9 IC is included on the approved list for retail applications of the RFID Research Center at the University of Auburn, and complies with categories F, G, I, K, M, N, L, Q, W1, W2, W3, W4, W5 and W6.

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.

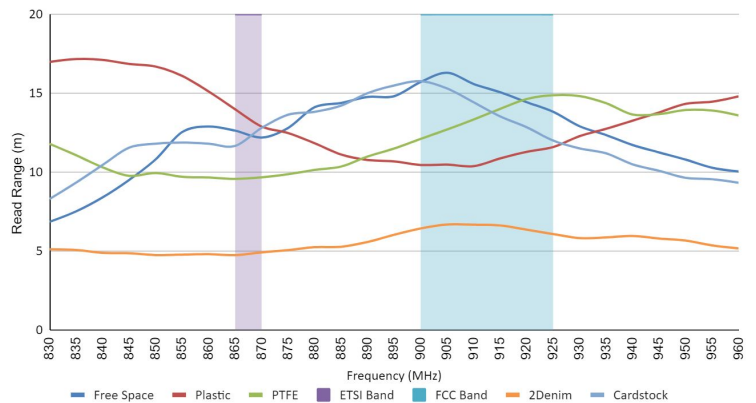
Technical features

| | | | | |
|-----------------------|---------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|
| 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.

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.

