

AD Eagle[®] U8

Overview

Frequency Band

UHF 860 - 960 MHz

Chip

NXP UCODE 8

Antenna Dimensions

44 x 28 mm / 1.73 x 1.10 in

International Standard

ISO 18000-6C, EPC Class 1 Gen 2

Industry Segments

Apparel
Logistics

Applications

Supply Chain Management
Brand Protection
Home Essentials

RoHS

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

REACH

Regulation (EC) No. 1907/2006



Top read range for retail applications

Our AD Eagle[®] is one of the smallest global UHF RFID inlays for retail applications, having a compact size 44 x 28 mm which can be easily converted into end application usage, available in dry and label / sticker delivery formats. AD Eagle[®] 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.

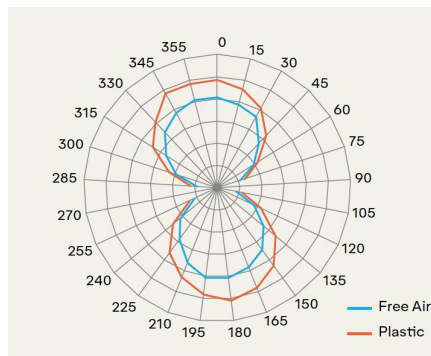
AD Eagle[®] with the NXP UCODE 8 IC, used in retail applications, is the smallest inlay with global performance currently available on the market that has passed ARC categories A, B, C, D, F, G, I, K, M, Q, W2 and W5.

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, especially in the retail environment.

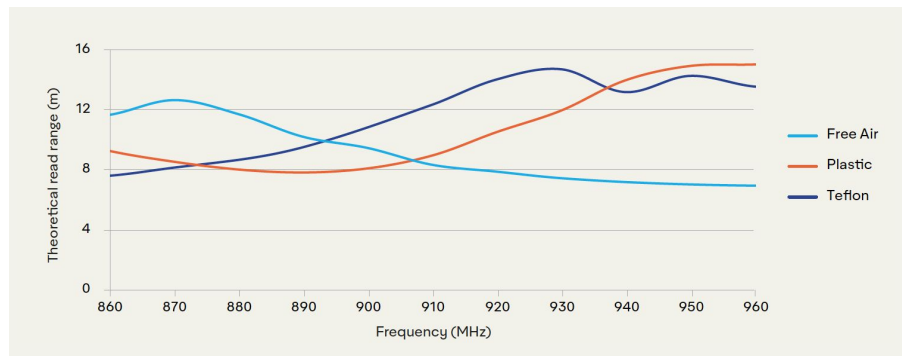
Technical features

Chip	NXP UCODE 8	
EPC and User Memory	128-bit and n/a	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	3007014 / IL-603372	3007016 / IL-603373
Delivery Format	Dry inlay	Label / Sticker
Die-Cut Dimension	–	47 x 31 mm / 1.90 x 1.20 in
Inlay Substrate	PET	PET
Face Sheet	–	Mid-gloss paper
Standard Pitch	34 mm / 1.339 in	34 mm / 1.339 in
Web Width	50 mm / 2 in	50 mm / 2 in
Core Size	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	18,000 pcs/reel 90,000 pcs/box	3,200 pcs/reel
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	
Certificates	ARC	

Orientation sensitivity



Read range



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

Contact information

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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.

