

# AD-400 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**

23 x 23 mm / 0.906 x 0.906 in

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**International Standard**

SO/IEC 18000-63 Type C

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**Industry Segments**

Retail  
Logistics  
Asset Tracking

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**Applications**

Apparel  
Footwear  
Cosmetics and Personal Care

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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



## Small Tag with Big Possibilities

Avery Dennison Smartrac is pleased to introduce a new design to its expansive portfolio of high performing, RFID UHF inlays to satisfy a growing number of apparel and other retail applications.

AD-400 U9 is a simple, square design, roughly 1 in (26 x 26mm) in size when converted to a standard wet inlay or pressure sensitive label format. The inlay is equipped with NXP's UCODE 9 IC which offers 96-bits of EPC memory and other features such as Self Adjust, Memory Safeguard, Dynamic BS, and Pre-serialized EPC.

The globally tuned design is an excellent choice when tagging a variety of materials and surfaces, with the capability of achieving an average of 3-6 meters read distance in both FCC and ETSI frequency bands. The tag performs best on low dielectric materials such as cardstock and corrugate, however, 1-2 read distance is also attainable on plastics and denim.

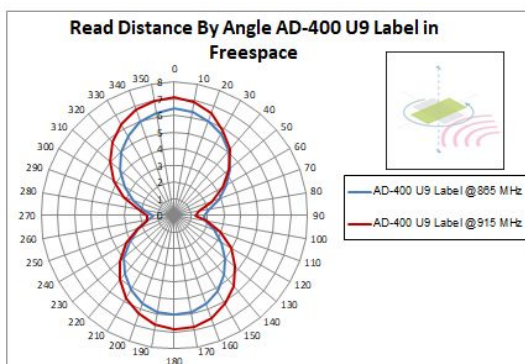
Delivery formats include dry, wet and paper inlay.

Like all RFID products from Avery Dennison, AD-400 U9 inlays are manufactured according to the industry's highest quality standards, as confirmed by the RFID Lab at Auburn University: The inspection body awarded Avery Dennison its first comprehensive and significant ARC accreditation for quality.

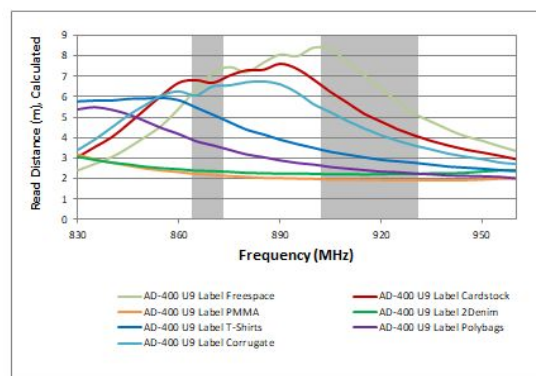
## Technical features

Chip	NXP UCODE 9		
EPC and User Memory	96-bit EPC / -		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	RF602201 / IL-605985	RF602203 / IL-607088	RF100990 / IL-605228
Delivery Format	Dry inlay +	Wet inlay	Label / sticker
Die-Cut Dimension	-	26 x 26 mm / 1.204 in x 1.204 in	26 x 26 mm / 1.204 x 1.204 in
Inlay Substrate	40# Paper	40# Paper	40# Paper
Face Sheet	-	-	TT2C (FASSON®) Bright White
Total Thickness	11.5 -13.5 mils / 292.1 -342.9 microns	12.7 -14.7 mils / 322.58 - 373.38 microns	16.2 - 18.2 mils / 411.48 - 462.28 microns
Standard Pitch	38.1 mm / 1.5 in	38.1 mm / 1.5 in	38.1 mm / 1.5 in
Web Width	30 mm / 1.181 in	30 mm / 1.181 in	30 mm / 1.181 in
Core Size	76.2 mm / 3 in	76.2 mm / 3 in	76.2 mm / 3 in
Maximum Outside Diameter	387.35 mm / 15.25 in	330.2mm / 13 in	203.2 mm / 8 in
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.