

# AD-324u8 ETSI NEL

## 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**

16 x 41.4 mm / 0.63 x 1.63 in

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**International Standard**

ISO/IEC 18000-63 Type C

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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/EU and  
2015/863 Compliant

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## Excellent read range and versatility

### Superior performance across a wide range of dielectrics

AD-324u8 ETSI inlays from Avery Dennison are ideally suited for a wide variety of RFID tagging applications, particularly those related to the areas of supply chain, inventory & logistics, apparel, and pharmaceutical & healthcare

The Gen2 UHF RFID 16 x 41.4 mm design is optimized for outstanding performance in the ETSI frequency band (865-868 MHz) and features the UCODE 8 IC by NXP. An FCC-specific design with identical footprint is available as well.

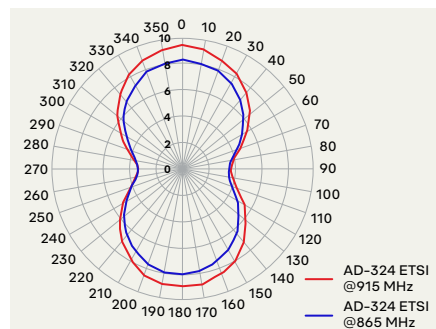
AD-324u8 ETSI's UCODE 8 chip features 128-bit of EPC memory and a 96-bit unique factory-locked TID number. A 48-bit unique serial number is factory-encoded into the TID. UCODE 8 supports all mandatory commands of EPC global specification V.2.0.1 including (Perma) LOCK and Kill Command. Delivery format is label / sticker.

Like all RFID products from Avery Dennison Intelligent Labels, AD-324u8 ETSI 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.

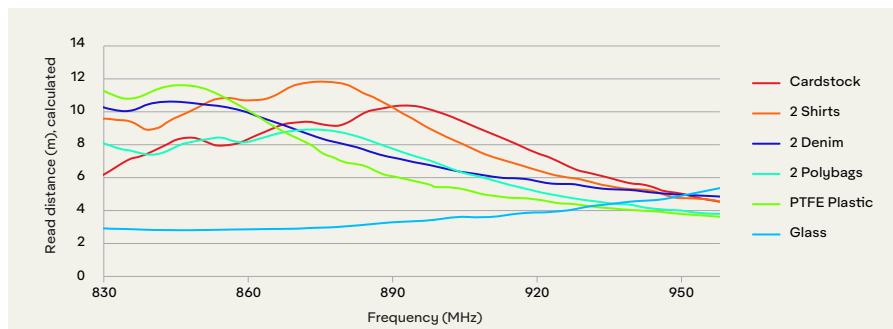
## Technical features

Chip	NXP UCODE 8
EPC and User Memory	128-bit and n/a
TID Memory	96-bit / 48-bit unique serial number
Product Code	RF100571
Delivery Format	Label / sticker
Die-cut Dimension	19 x 44 mm / 0.75 x 1.75 in
Inlay Substrate	40# Paper
Face Sheet	TT2C (FASSON®) Bright White
Total Thickness	16 - 18 mils / 405 - 456 microns
Standard Pitch	38.1 mm / 1.5 in
Web Width	50.8 mm / 2 in
Core Size	76 mm / 3 in
Quantity / Reel	3,207 pcs/reel
Operating Temperature	-40 °C to 85 °C -40 °F to 185 °F
On-Metal	Non metal
Certificate	ARC

## Orientation sensitivity



## Read range



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

## Contact information

[rfid.averydennison.com/contact](http://rfid.averydennison.com/contact)

North America: +1-866-903-7343 (toll free US)

International: +1-678-617-2359

RoHS

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**Warranty:** Please refer to Avery Dennison Intelligent Labels standard terms and conditions: [rfid.averydennison.com/termsandconditions](http://rfid.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.



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Apparel  
Logistics  
Healthcare

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**Applications**

Supply Chain Management  
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The Gen2 UHF RFID inlay's 41.4 x 16mm design is optimized for outstanding performance in the ETSI frequency band (865-868 MHz) and features the UCODE 8 IC by NXP. An FCC-specific design with identical footprint is available as well.

AD-324u8 ETSI's UCODE 8 chip features 128-bit of EPC memory and a 96-bit unique factory-locked TID number. A 48-bit unique serial number is factory-encoded into the TID. UCODE 8 supports all mandatory commands of EPC global specification V.2.0.1 including (Perma) LOCK and Kill Command. Delivery formats include dry, wet and paper inlay.

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## Technical features

<b>Chip</b>	NXP UCODE 8		
<b>EPC and User Memory</b>	128-bit and n/a		
<b>TID Memory</b>	96-bit / 48-bit unique serial number		
<b>Product Code</b>	RF601063	RF601064	RF100472
<b>Delivery Format</b>	Dry inlay	Wet inlay	Label / sticker
<b>Die-cut Dimension</b>	-	44 x 19 mm / 1.75 x 0.75 in	44 x 19 mm / 1.75 x 0.75 in
<b>Inlay Substrate</b>	PET	PET	40# Paper
<b>Face Sheet</b>	-	-	TT2C (FASSON®) Bright White
<b>Total Thickness</b>	11 - 13 mils / 268 - 319 microns	12 - 14 mils / 306 - 357 microns	16 - 18 mils / 405 - 456 microns
<b>Standard Pitch</b>	25.4 mm / 1 in	25.4 mm / 1 in	38.1 mm / 1.5 in
<b>Web Width</b>	50.8 mm / 2 in		
<b>Core Size</b>	76 mm / 3 in		
<b>Quantity / Reel</b>	20000 pcs/reel	20000 pcs/reel	3207 pcs/reel
<b>Operating Temperature</b>	-40 °C to 85 °C -40 °F to 185 °F		
<b>On-Metal</b>	Non metal		
<b>Certificate</b>	ARC		

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# AD-324u8 FCC

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

NXP UCODE 8

---

**Antenna Dimensions**

41 x 16 mm / 1.63 x 0.63 in

---

**International Standard**

ISO/IEC 18000-63 Type C

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**Industry Segments**

Apparel  
Logistics  
Healthcare

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**Applications**

Supply Chain Management  
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**RoHs**

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## Excellent read range and versatility

AD-324u8 FCC inlays from Avery Dennison are ideally suited for a wide variety of RFID tagging applications, particularly those related to the areas of supply chain, inventory & logistics, apparel, and pharmaceutical & healthcare

The Gen2 UHF RFID inlay's 41.4 x 16mm design is optimized for outstanding performance in the FCC frequency band (902-928 MHz) and features the UCODE 8 IC by NXP. An ETSI-specific design with identical footprint is available as well.

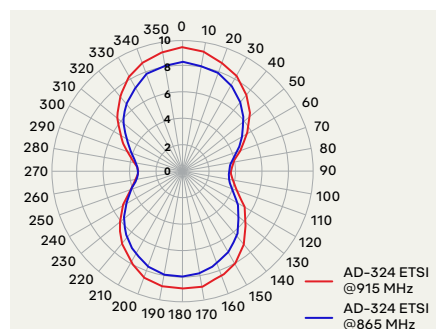
AD-324u8 FCC's UCODE 8 chip features 128-bit of EPC memory and 96-bit unique factory-locked TID number. A 48-bit unique serial number is factory-encoded into the TID. UCODE 8 supports all mandatory commands of EPC global specification V.2.0.1 including (Perma) LOCK and Kill Command. Delivery formats include dry, wet and paper label.

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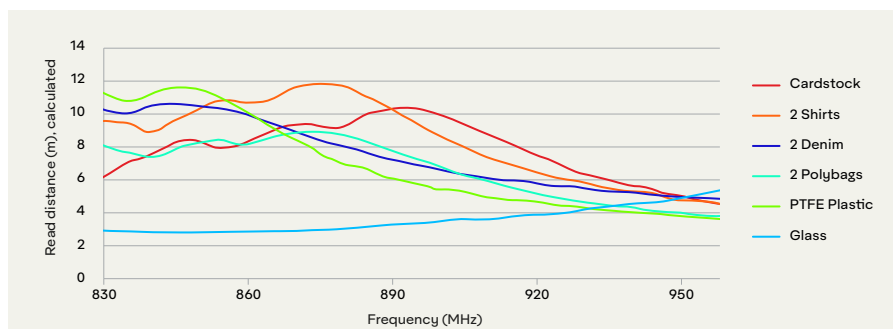
## Technical features

<b>Chip</b>	NXP UCODE 8		
<b>EPC and User Memory</b>	128-bit and n/a		
<b>TID Memory</b>	96-bit / 48-bit unique serial number		
<b>Product Code</b>	RF601478	RF601480	RF100606
<b>Delivery Format</b>	Dry inlay	Wet inlay	Label / sticker
<b>Die-cut Dimension</b>	44 x 19 mm / 1.75 x 0.75 in		
<b>Inlay Substrate</b>	38um Paper	38um Paper	5 pt Paper
<b>Total Thickness</b>	10 - 12 mils / 249 - 300 microns	11 - 13 mils / 287 - 337 microns	14 - 16 mils / 368 - 419 microns
<b>Standard Pitch</b>	25.4 mm / 1 in	25.4 mm / 1 in	22.2 mm / 0.875 in
<b>Web Width</b>	50.8 mm / 2 in		
<b>Core Size</b>	76 mm / 3 in		
<b>Quantity / Reel</b>	20000 pcs/reel	20000 pcs/reel	5966 pcs/reel
<b>Operating Temperature</b>	-40 °C to 85 °C -40 °F to 185 °F		
<b>On-Metal</b>	Non metal		
<b>Certificate</b>	ARC		

## Orientation sensitivity



## Read range



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

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