# AD Miniweb U9 FCC

## Overview

**Frequency Band**
UHF 860 - 960 MHz

**Chip**
NXP UCODE 9

**Antenna Dimensions**
42 x 16 mm / 1.70 x 0.60 in

**International Standard**
ISO 18000-63, EPC Class 1 Gen 2

**Industry Segments**
Apparel
Logistics
Healthcare

**Applications**
Supply Chain Management
Home Essentials
Inventory and Logistics

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

**REACH**
Regulation (EC) No 1907/2006

## Ideal for small apparel labels

The AD Miniweb U9 FCC inlays and tags are designed for global retail, industrial and supply-chain applications, offering excellent performance on difficult-to-tag or low-detuning materials such as cardboard and plastic, and in other demanding, close-coupling environments.

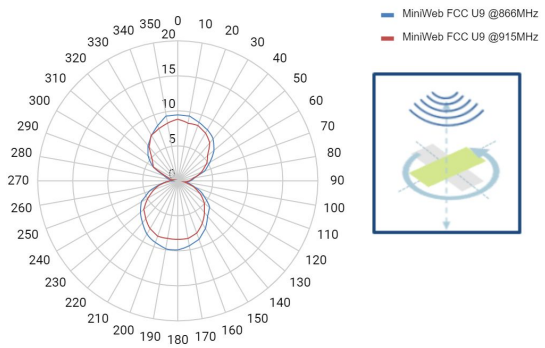
AD Miniweb inlays and tags have a compact size of 45 x 18 mm, which can be easily converted into end-application usage, and are available in dry, wet and label / sticker delivery formats. Miniweb equipped with NXP UCODE 9 offers 96-bit of EPC memory. Furthermore, it offers a self adjust feature to maximize product performance in challenging environments, and has an improved read and write sensitivity and faster encoding speed compared to NXP U8.

AD Miniweb inlays with the UCODE 9 IC, used in retail applications, has passed ARC categories F, G, N, M, W2, W5, W6 and Q requirements defined by the RFID Research Center at the University of Auburn for FCC retail performances. This indicates the product is suitable for applications such as home goods and merchandising areas with a greater demand of RF performance than typical retail apparel applications.

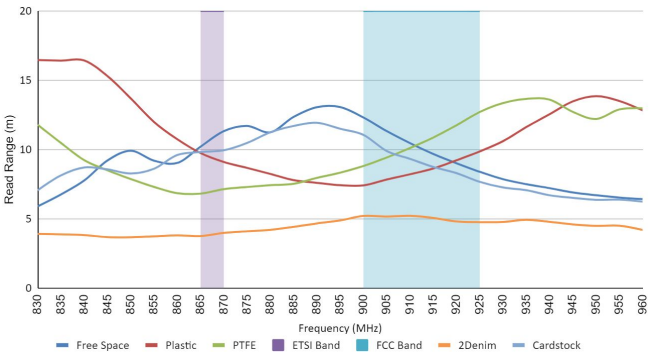
## Technical features

| | | | | |
|---|---|---|---|---|
| **Chip** | NXP UCODE 9 | | | |
| **EPC and User Memory** | 96-bit and n/a | | | |
| **TID Memory** | 96-bit / 48-bit unique serial number | | | |
| **Product Code** | IL-604000 | IL-604001 | IL-604012 | IL-612451 |
| **Delivery Format** | Dry inlay | Wet inlay | Label | Label (RA-40) |
| **Die-Cut Dimension** | – | 45 x 18 mm / 1.80 x 0.70 in | 45 x 18 mm / 1.80 x 0.70 in | 45 x 18 mm / 1.80 x 0.70 in |
| **Inlay Substrate** | PET | PET | PET | PET |
| **Face Sheet** | NA | NA | Mid-gloss paper | Mid-gloss paper |
| **Standard Pitch** | 20 mm / 0.787 in | 20 mm / 0.787 in | 20 mm / 0.787 in | 20 mm / 0.787 in |
| **Web Width** | 48 mm / 1.89 in | 48 mm / 1.89 in | 48 mm / 1.89 in | 48 mm / 1.89 in |
| **Core Size** | 76 mm / 3 in | 76 mm / 3 in | 76 mm / 3 in | 76 mm / 3 in |
| **Quantity / Reel** | 10,000 pcs/reel | 20,000 pcs/reel | 5,000 pcs/reel | 5,000 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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Connect with us on:

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**Warranty:** Please refer to Avery Dennison standard terms and conditions: **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.