# 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.
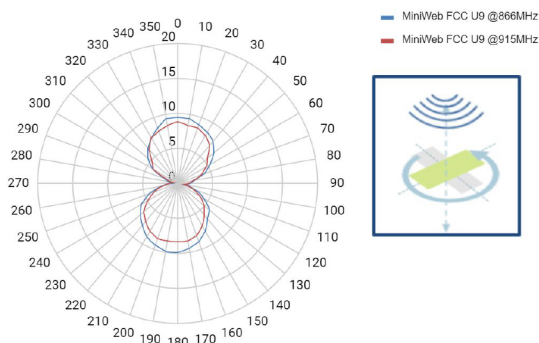
AD Miniweb inlays and tags have a compact size of 45 x 18 mm, which can be easily converted into end-application usage, and are available in dry, wet and label / sticker delivery formats. Miniweb equipped with NXP UCODE 9 offers 96-bit of EPC memory. Furthermore, it offers a self adjust feature to maximize 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.
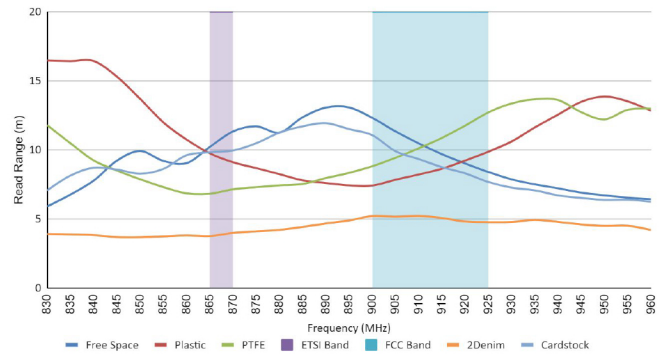
**AVERY DENNISON**

## 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 | 3008005 / IL-604000 | 3008006 / IL-604001 | 3008017 / IL-604012 |
| Delivery Format | Dry inlay | Wet inlay | Label / sticker |
| Die-Cut Dimension | – | 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 |
| Face Sheet | NA | NA | Mid-gloss paper |
| Standard Pitch | 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 |
| Core Size | 76 mm / 3 in | 76 mm / 3 in | 76 mm / 3 in |
| Quantity / Reel | 10,000 pcs/reel 20,000 pcs/box | 20,000 pcs/reel 40,000 pcs/box | 5,000 pcs/reel 10,000 pcs/box |
| Operating Temperature | -40 °C to 85 °C / -40 °F to 185 °F | | |
| Certificates | ARC | | |

## Orientation sensitivity



MiniWeb FCC U9 @866MHz
MiniWeb FCC U9 @915MHz

## Read range



Free Space   Plastic   PTFE   ETSI Band   FCC Band   2Denim   Cardstock

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

REACH COMPLIANCE

RoHS

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