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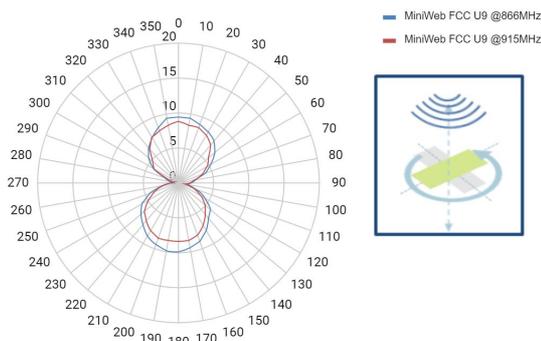
AD Miniweb inlays and tags have a compact size of 45 x 18 mm, which can be easily converted into end-application usage, and are available in dry, wet and label / sticker delivery formats. Miniweb equipped with NXP UCODE 9 offers 96-bit of EPC memory. Furthermore, it offers a self adjust feature to maximize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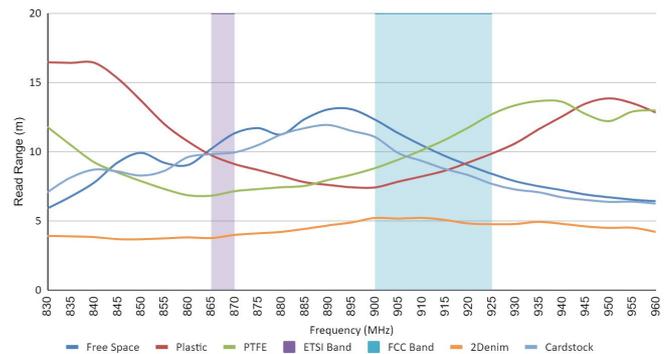
Technical features

Chip	NXP UCODE 9		
EPC and User Memory	96-bit and n/a		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	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.

Contact information
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Connect with us on: