

# AD Miniweb M830 FCC

## Compact, high performance RFID inlay for item-level tagging

AD Miniweb M830 FCC inlays are designed for a broad range of applications, including inventory and logistics, electronics, sporting goods, home essentials, and general merchandise. The popular Apparel design is an excellent choice for retailers looking to tag diverse merchandise, as it provides consistent high read rates with a small label footprint. In addition, these inlays are particularly effective on materials such as glass and plastic.

Featuring the impinj M830 IC, AD Miniweb M830 FCC is equipped with 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. The improved readability of the new IC offers reliable reading of small tags at high volume and speed which supports the global IoT deployments. AD Miniweb M830 FCC carries a 42 x 16mm (1.65 x 0.63in) antenna footprint and is offered in dry inlay, wet inlay and pressure sensitive label delivery formats.

Like all RFID products from Avery Dennison, AD Miniweb M830 FCC inlays are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, especially in the retail environment. The RFID Lab at Auburn University has awarded Avery Dennison its first comprehensive and significant ARC accreditation for quality.

### Overview

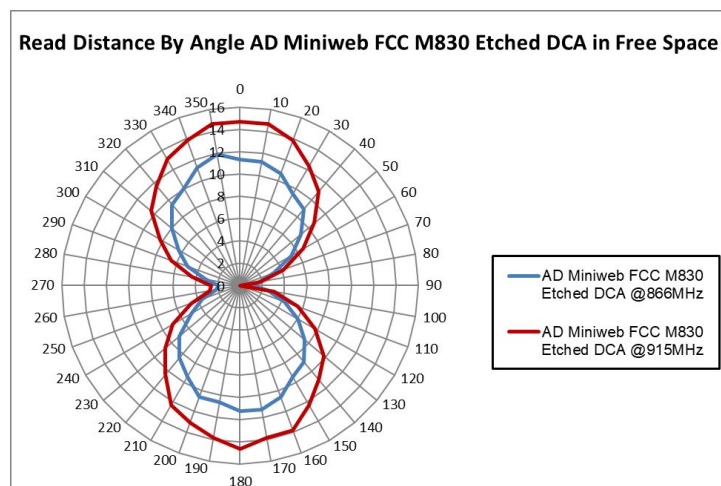
Frequency Band	UHF 860 - 960 MHz
Chip / Chip Attachment Technology	Impinj M830 / Direct Chip Attach
Antenna Dimensions	42 x 16 mm / 1.65 x 0.63 in
International Standard	ISO/IEC 18000-63 Type C
Industry Segments	General Retail Apparel Logistics
Applications	Brand Protection Supply Chain Management Home Essentials
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

## Technical features

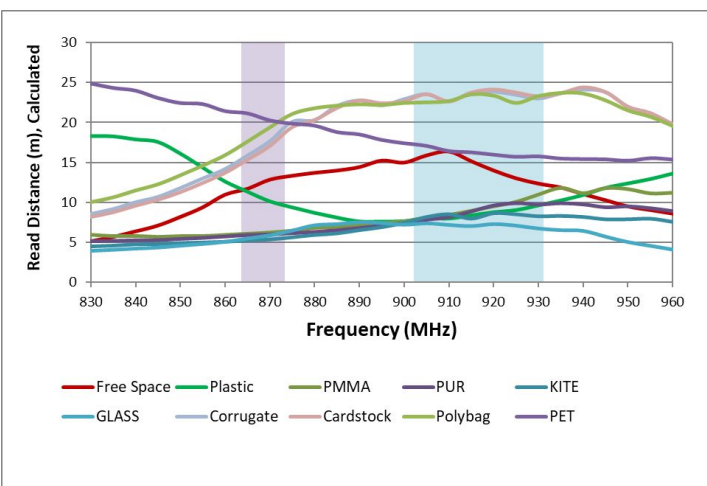
Chip / Chip Attachment Technology	Impinj M830 / Direct Chip Attach				
EPC and User Memory	128-bit EPC and 0-bit User Memory				
TID Memory	96-bit / 48-bit unique serial number				
Product Code	IL-612988	IL-612990	IL-612993	IL-612994	IL-613555
Delivery Format	Dry inlay	Wet inlay	Label	Label	Label
Die-Cut Dimensions	-	45 x 18 mm / 1.772 x 0.709 in	45 x 18 mm / 1.772 x 0.709 in	45 x 18 mm / 1.772 x 0.709 in	45 x 18 mm / 1.772 x 0.709 in
Die-Cut Corner Radius	-	1 mm / 0.039 in	1 mm / 0.039 in	1 mm / 0.039 in	1 mm / 0.039 in
Inlay Substrate	PET Clear	PET Clear	PET Clear	PET Clear	PET Clear
Face Sheet	-	-	Mid-gloss paper	Mid-gloss paper	Mid-gloss paper
Adhesive	-	RA-5	RA-5	RA-5	RA-40
Total Thickness (over chip and release liner)	6.34 - 7.76 mils / 161 - 197 microns	7.05 - 8.62 mils / 179 - 219 microns	9.53 - 11.65 mils / 242 - 296 microns	9.53 - 11.65 mils / 242 - 296 microns	9.53 - 11.65 mils / 242 - 296 microns
Standard Pitch	20 mm / 0.787 in	20 mm / 0.787 in	20 mm / 0.787 in	31.75 mm / 1.25 in	20 mm / 0.787 in
Web Width	48 mm / 1.890 in	48 mm / 1.890 in	48 mm / 1.890 in	48 mm / 1.890 in	48 mm / 1.890 in
Core Size	76 mm / 3 in	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	5,000 pcs/reel
Size of Roll	MAX OD: 15.5"	MAX OD: 13"	MAX OD: 8"	MAX OD: 8"	MAX OD: 8"
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F				
On-Metal	Non metal				
ARC Certificates	<a href="#">ARC Specification Guide</a>				

\*Other product codes available upon request.

## Orientation sensitivity



## Read range



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

Find more label solutions at  
[rfid.averydennison.com](https://rfid.averydennison.com)



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