

AD Stealth M830

RFID inlay optimized for small item-level applications

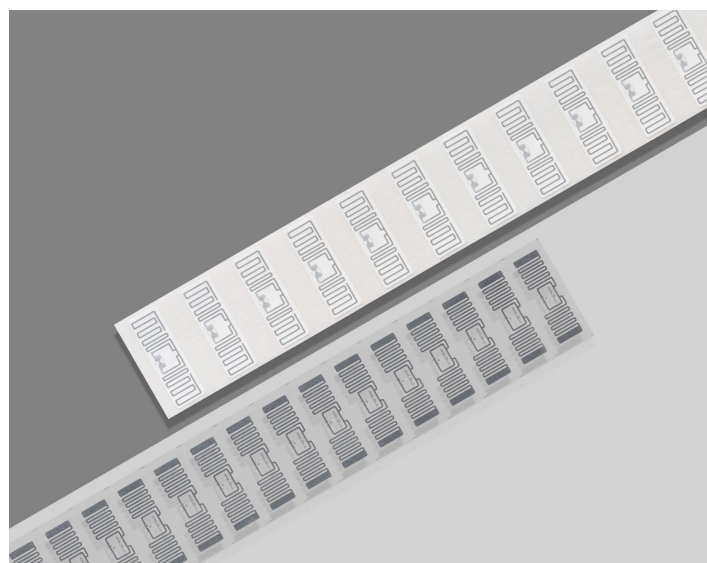
Avery Dennison Smartrac has refreshed its legacy AD Web design family to AD Stealth, a new compact design featuring the Impinj M800 series IC.

AD Stealth M830 inlays and tags are optimized for outstanding read performance in the apparel, general retail and item-level food applications. The slim, 50 x 14.5mm design is also a great fit for tagging item level merchandise within the beauty and personal care segments.

Due to its condensed, 53 x 17.5mm form factor, AD Stealth M830 inlays and tags will accommodate a wide variety of finished media options including pressure sensitive labels, hangtags and price tickets.

Featuring the impinj M830 IC, AD Stealth M830 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.

Like all RFID products from Avery Dennison, AD Stealth M830 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

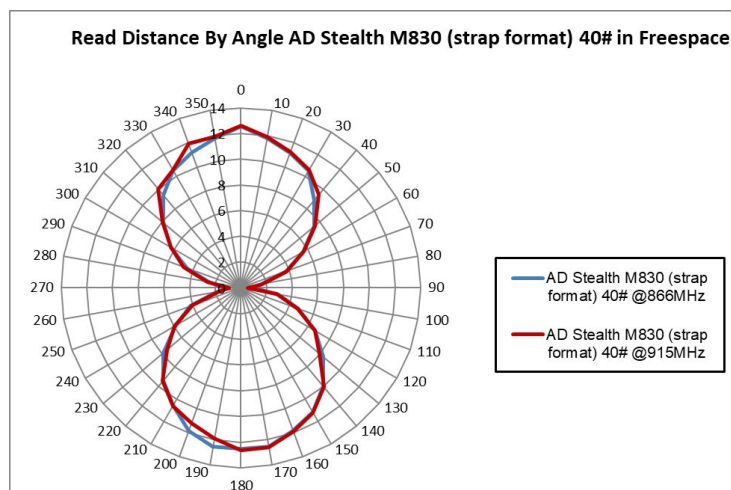
Frequency Band	UHF 860 - 960 MHz
Chip / Chip Attachment Technology	Impinj M830 / Direct Chip Attach / Strap Attach
Antenna Dimensions	50 x 14.5 mm / 1.97 x 0.57 in
International Standard	ISO 18000-63, EPC Class 1 Gen 2
Industry Segments	Apparel General Retail Beauty and Personal Care Food
Applications	Brand Protection Supply Chain Management Inventory and Logistics Bakery and Deli Label
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

Technical features - Strap Attach (SA)

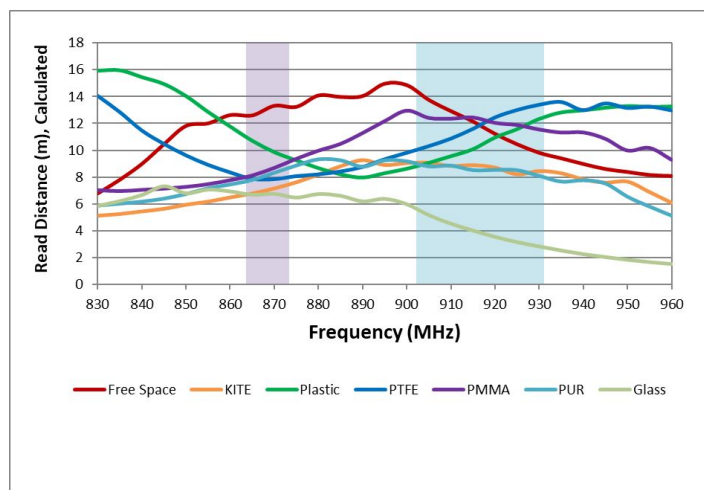
Chip / Chip Attachment Technology	Impinj M830 / Strap Attach		
EPC and User Memory	128-bit EPC and 0-bit User Memory		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	IL-610949	IL-610953	IL-610957
Delivery Format	Dry inlay	Wet inlay	Label
Die-Cut Dimensions	-	53 x 17.5 mm / 2.08 x 0.68 in	53 x 17.5 mm / 2.08 x 0.68 in
Die-Cut Corner Radius	-	1.5 mm / 0.059 in	1.5 mm / 0.059 in
Inlay Substrate	40# Paper	40# Paper	40# Paper
Face Sheet	-	-	TT2C
Adhesive	-	General Purpose Permanent	General Purpose Permanent
Total Thickness (over chip and release liner)	11.5 - 13.5 mils / 292 - 343 microns	12.7 - 14.7 mils / 322 - 373 microns	16.2 - 18.2 mils / 411 - 462 microns
Standard Pitch	31.75 mm / 1.25 in	31.75 mm / 1.25 in	31.75 mm / 1.25 in
Web Width	57.15 mm / 2.25 in	57.15 mm / 2.25 in	57.15 mm / 2.25 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	25,000 pcs/reel	20,000 pcs/reel	4,500 pcs/reel
Size of Roll	MAX OD: 15.5"	MAX OD: 13"	MAX OD: 8"
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		
On-Metal	Non metal		
ARC Certificates	ARC Specification Guide		

*Other product codes available upon request.

Orientation sensitivity



Read range



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

Sustainability features

Responsible Sourcing	100% Paper based raw materials come from responsible sources
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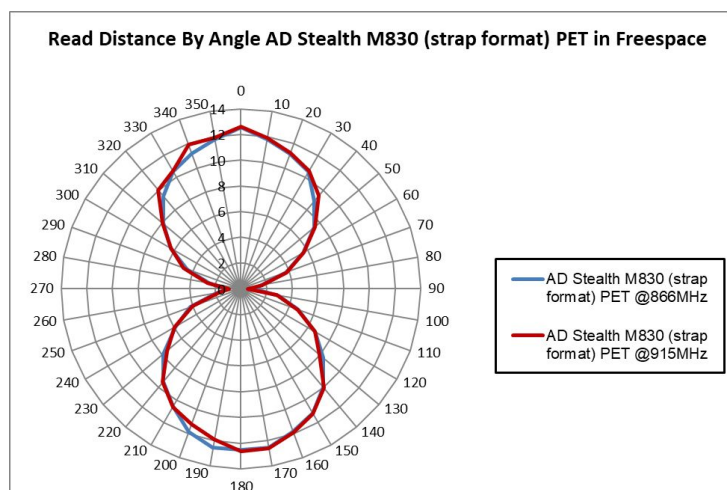
Responsible
Sourcing

Technical features - Strap Attach (SA)

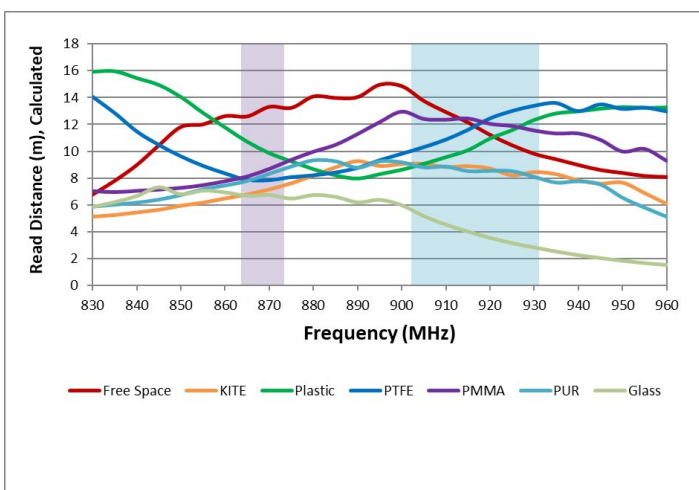
Chip / Chip Attachment Technology	Impinj M830 / Strap Attach		
EPC and User Memory	128-bit EPC and 0-bit User Memory		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	IL-612710	IL-612711	IL-614458
Delivery Format	Dry inlay +	Wet inlay	Label
Die-Cut Dimensions	-	53 x 17.5 mm / 2.08 x 0.68 in	53 x 17.5 mm / 2.08 x 0.68 in
Die-Cut Corner Radius	-	1.5 mm / 0.059 in	1.5 mm / 0.059 in
Inlay Substrate	PET Clear	PET Clear	PET Clear
Face Sheet	-	-	DT Facestock
Adhesive	-	All Temperature Permanent	All Temperature Permanent
Total Thickness (over chip and release liner)	10 - 12.2 mils / 253 - 309 microns	10.8 - 13.3 mils / 275 - 337 microns	13.7 - 16.8 mils / 348 - 426 microns
Standard Pitch	31.75 mm / 1.25 in	31.75 mm / 1.25 in	31.75 mm / 1.25 in
Web Width	57.15 mm / 2.25 in	57.15 mm / 2.25 in	57.15 mm / 2.25 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	12,000 pcs/reel	7,000 pcs/reel	2,000 pcs/reel
Size of Roll	MAX OD: 15"	MAX OD: 12"	MAX OD: 8"
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		
On-Metal	Non metal		
ARC Certificates	ARC Specification Guide		

*Other product codes available upon request.

Orientation sensitivity



Read range



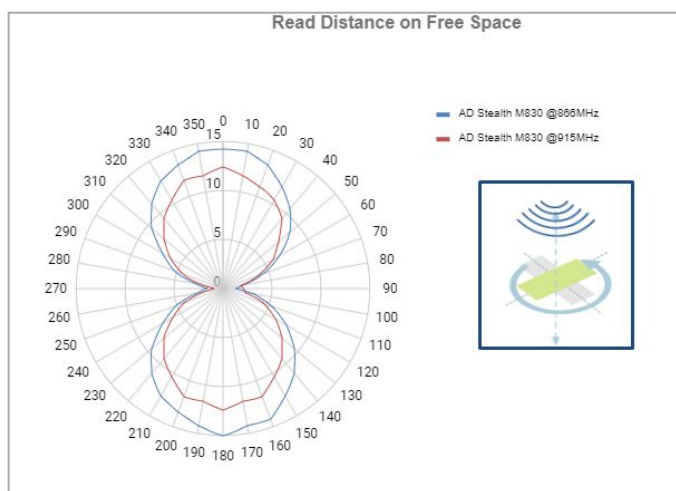
All graphs are indicative: performance in real life applications may vary.

Technical features - Direct Chip Attach (DCA)

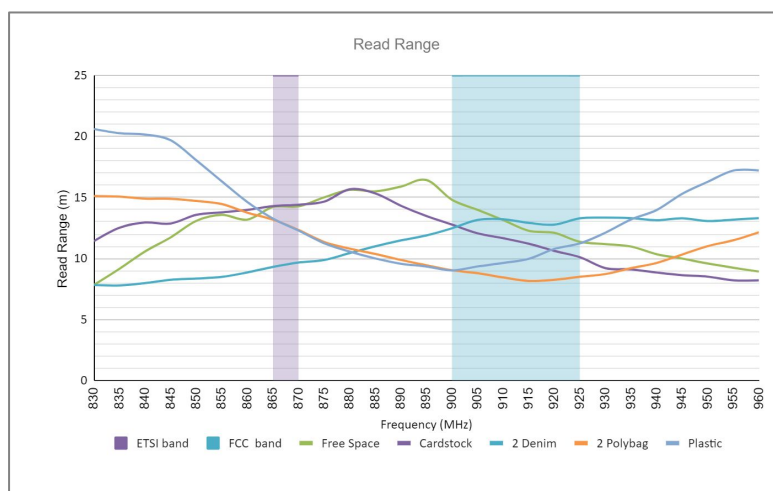
Chip / Chip Attachment Technology	Impinj M830 / Direct Chip Attach				
EPC and User Memory	128-bit EPC and 0-bit User Memory				
TID Memory	96-bit / 48-bit unique serial number				
Product Code	IL-610621	IL-612545	IL-610622	IL-610623	IL-612789
Delivery Format	Dry inlay	Dry inlay	Wet inlay	Label	Label
Die-Cut Dimensions	-	-	53 x 17.5 mm / 2.08 x 0.68 in	53 x 17.5 mm / 2.08 x 0.68 in	53 x 17.5 mm / 2.08 x 0.68 in
Die-Cut Corner Radius	-	-	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
Adhesive	-	-	RA-5	RA-5	RA-40
Total Thickness (over chip and release liner)	6.0 - 8.0 mils / 152.4 - 203.2 microns	6.0 - 8.0 mils / 152.4 - 203.2 microns	9.0 - 11.0 mils / 228.6 - 279.4 microns	12.5 - 14.5 mils / 317.5 - 368.3 microns	12.5 - 14.5 mils / 317.5 - 368.3 microns
Standard Pitch	22.23 mm / 0.875 in	17.5 mm / 0.689 in	22.23 mm / 0.875 in	22.23 mm / 0.875 in	18.5 mm / 0.728 in
Web Width	60 mm / 2.36 in	53 mm / 2.087 in	60 mm / 2.36 in	60 mm / 2.36 in	60 mm / 2.36 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	15,375 pcs/reel	48,000 pcs/reel	9,777 pcs/reel	2,713 pcs/reel	28,000 pcs/reel
Size of Roll	MAX OD: 15.5"	MAX OD: 15.5"	MAX OD: 13"	MAX OD: 8"	MAX OD: 13"
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F				
On-Metal	Non metal				
ARC Certificates	ARC Specification Guide				

*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



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