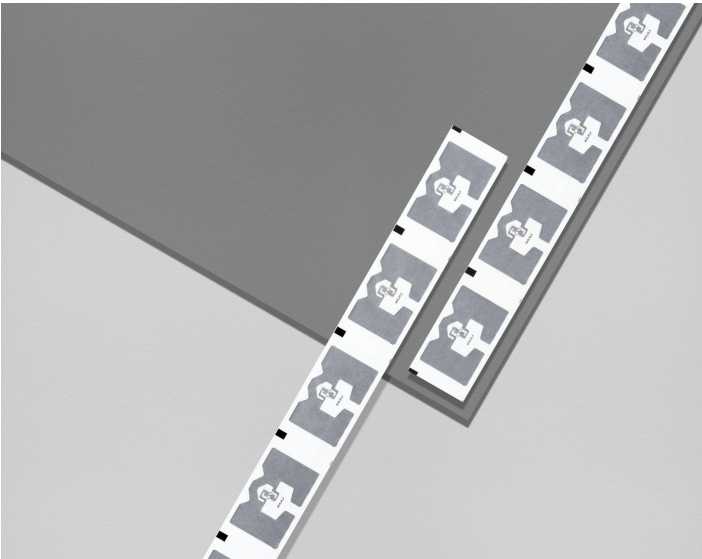


AD Altitude M830

Asset Tracking Solution for Airlines: Efficient Luggage and Baggage Tagging & Tracking



The AD Altitude M830, powered by the advanced Impinj M800 chip, delivers superior read range, speed, and accuracy, making it an ideal choice for aviation baggage tracking and asset management. Designed to support IATA Resolution 753, it enables automated, reliable tracking at all mandatory touch points throughout the baggage journey. With global broadband performance (860–960 MHz), it provides fast, consistent readability while reducing operational costs and maintaining high precision. Now approved for ARC Spec U luggage tagging, it continues to set a strong performance benchmark in the aviation sector.

Its omnidirectional design ensures consistent read distances of 6–20 meters, delivering optimal performance regardless of tag orientation. With enhanced visibility, reduced manual handling, and exceptional reliability, the AD Altitude M830 brings next-generation technology to modern baggage tracking.

Key Features:

Superior read range, speed, and accuracy

- Impinj M830 IC
- 128-bit of EPC memory
- 96-bit unique factory-locked TID number
- 48-bit unique serial number (factory-encoded into TID)

Like all Avery Dennison RFID products, the AD Altitude M830 inlays are manufactured to meet the industry’s highest quality standards, as confirmed by the RFID Lab at Auburn University, which 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 / Strap Attach (SA) |
| Antenna Dimensions | 38 x 61 mm / 1.50 x 2.40 in |
| International Standard | ISO/IEC 18000-63 Type C |
| Industry Segments | Aviation |
| Applications | Asset Tracking Luggage Tag |
| RoHS | EU Directive 2011/65/EU and Directive (EU) 2015/863 |
| REACH | Regulation (EC) No. 1907/2006 |

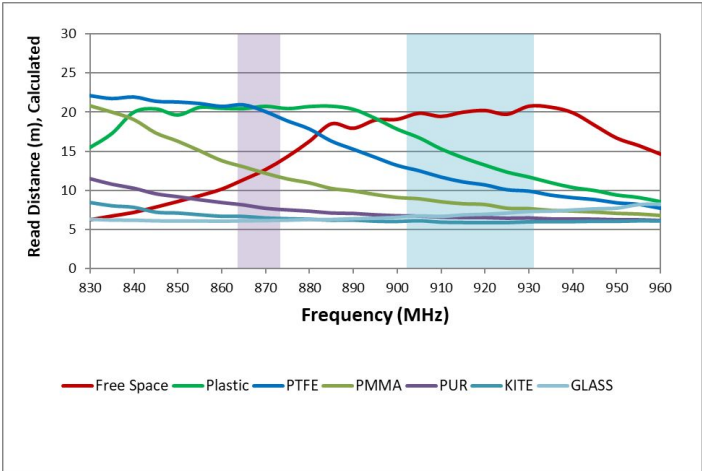
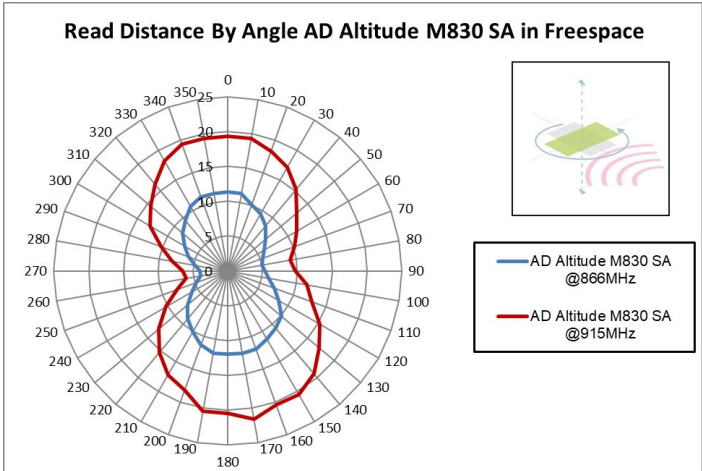
Technical features

| | | |
|---|---|-----------------------------|
| Chip / Chip Attachment Technology | Impinj M830 / Strap Attach (SA) | |
| EPC and User Memory | 128-bit EPC | |
| TID Memory | 96-bit / 48-bit unique serial number | |
| Product Code | IL-612077 | IL-612078 |
| Delivery Format | RIF Dry inlay | Label |
| Die-Cut Dimensions | - | 41 x 64 mm / 1.61 x 2.50 in |
| Die-Cut Corner Radius | - | 1.59 mm / 0.063 in |
| Inlay Substrate | White PET | White PET |
| Face Sheet | - | TT2C |
| Adhesive | - | S4905L (AWS1101) |
| Total Thickness (over chip and release liner) | 10.63 mils / 270 microns | 14.17 mils / 360 microns |
| Standard Pitch | 82.55 mm / 3.25 in | 82.55 mm / 3.25 in |
| Web Width | 45 mm / 1.772 in | 45 mm / 1.772 in |
| Core Size | 76 mm / 3 in | 76 mm / 3 in |
| Quantity / Reel | 10,750 pcs/reel | 5,000 pcs/reel |
| Size of Roll | Max OD 15" | 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.

Find more label solutions at
rfid.averydennison.com



#MakingPossible

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