

# AD Squarewave M830

## Overview

---

**Frequency Band**

UHF 860 - 960 MHz

---

**Chip**

Impinj M830

---

**Antenna Dimensions**

93 x 11 mm / 3.66 x 0.43 in

---

**International Standard**

ISO/IEC 18000-63, EPC Gen2 V2

---

**Primary Industry Segment**

Industry

---

**Secondary Industry Segments**

Logistics  
Automotive

---

**Applications**

Supply Chain Management  
Inventory and Logistics  
Home Essentials

---

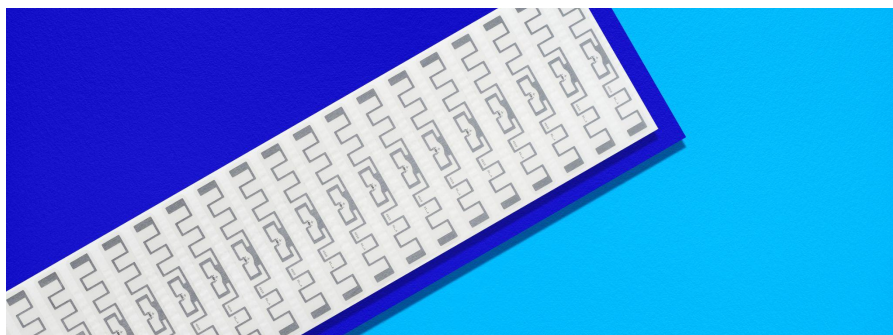
**RoHS**

EU Directive 2011/65/EC and Directive  
(EU) 2015/863

---

**REACH**

Regulation (EC) No 1907/2006



## High performance condensed to the max

AD Squarewave M830 inlays and tags are designed for industrial and supply-chain applications, offering excellent performance not only on low detuning materials such as cardboard and plastic, but also on materials with high dielectric effect. With relatively narrow width, this product has a flat global performance over the whole UHF band on a variety of materials.

AD Squarewave M830 inlays and tags are a size-optimized 97 mm / 3.82 inch form factor, making them suitable for use with a wide range of supply chain labels, and are available in dry, wet + and label delivery formats.

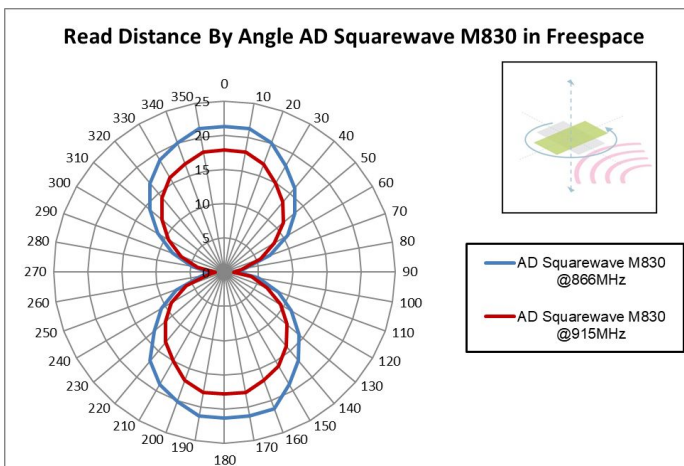
The AD Squarewave M830 feature 128-bit of EPC memory and a 96-bit unique factory locked TID number. A 48-bit unique serial number is factory-encoded into the TID. The improved readability of the new IC offers reliable reading of small tags at high volume and speed which supports the global IoT deployments.

Like all RFID products from Avery Dennison, AD Squarewave M830 inlays are manufactured according to the industry's highest quality standards, as confirmed by the RFID Lab at Auburn University: The inspection body awarded Avery Dennison its first comprehensive and significant ARC accreditation for quality.

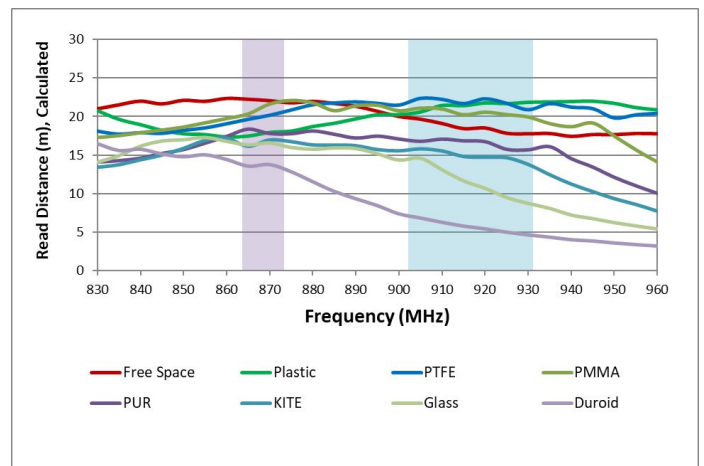
## Technical features

Chip	Impinj M830		
Chip attachment technology	Direct chip attach (DCA)		
EPC and User Memory	128-bit EPC		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	IL-611308	IL-611306	IL-611307
Delivery Format	Dry inlay	Wet Inlay+	Label
Die-Cut Dimension	-	97 x 15 mm / 3.82 x 0.59 in	97 x 15 mm / 3.82 x 0.59 in
Inlay Substrate	PET	PET	PET
Face Sheet	-	Clear PET 12	Opaque Matt Paper 79
Total Thickness	63 µm	118 µm	173 µm
Standard Pitch	20 mm / 0.787 in	20 mm / 0.787 in	20 mm / 0.787 in
Web Width	100 mm / 3.937 in	100 mm / 3.937 in	100 mm / 3.937 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	TBD pcs/reel TBD pcs/box	20,000 pcs/reel TBD pcs/box	5,000 pcs/reel TBD pcs/box
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		
Certificate	ARC Pending		

## Orientation sensitivity



## Read range



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

### Contact information

[rfid.averydennison.com/contact](http://rfid.averydennison.com/contact)  
 +1-678-617-2359

Connect with us on:



© 2024 Avery Dennison Corp. All rights reserved. 170 Monarch Lane, Miamisburg, OH 45342, USA Third party trademarks and/or trade names used herein are the property of their respective owner(s). Some of the trademarks appear for identification purposes only.

**Warranty:** Please refer to Avery Dennison standard terms and conditions: [rfid.averydennison.com/termsandconditions](http://rfid.averydennison.com/termsandconditions)

**Care and handling:** RFID inlays are sensitive to ESD. Observe standard industry practices relating to electronics / RFID to keep environmental impact and static charge to a minimum.

**Applications:** This product should be tested by the customer / user thoroughly under end use conditions to ensure the product meets the particular requirements. Avery Dennison does not represent that this product is fit for any particular purpose or use. Avery Dennison reserves the right to modify, change, supplement or discontinue product offerings at any time without notice. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.

