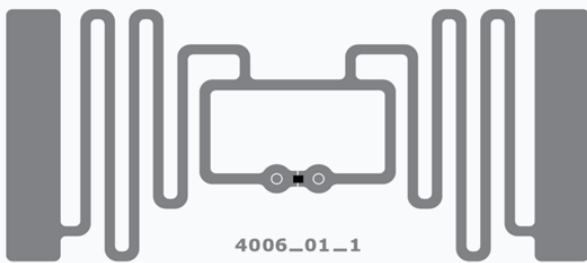


# AD-Sonic M830 RFID Inlay

## General Purpose, Zebra-Certified RFID Inlay

The Avery Dennison Sonic M830 RFID Inlay is an innovative product designed to enhance item-level tracking and inventory management across various industries. Offers superior read performance and reliability, even in challenging environments with dense tag populations. Its compact design allows for versatile application, making it suitable for retail, logistics and supply chain operations. The AD-Sonic M830 RFID inlay is engineered to support high-speed encoding and reading processes, thereby improving operational efficiency and accuracy. By integrating the AD-Sonic M830 RFID inlay, businesses can achieve greater visibility and control over their assets, ultimately leading to more informed decision-making and streamlined operations.



The AD-Sonic M830 RFID inlay is 44mm x 20mm

### Impinj IC – M830

The Impinj M830 is a high-performance RAIN RFID tag chip designed for various applications. Known for its exceptional read sensitivity and reliability, the M830 chip enables longer read ranges and faster, more accurate data capture. Its compact design and energy efficiency make it an ideal choice for businesses looking to enhance their supply chain visibility and operational efficiency.

### Offers market leading performance and meet many Auburn Specs

The AD-Sonic M830 RFID inlay is designed to meet the rigorous standards set by Auburn University's ARC Specifications. These specifications are renowned in the industry for ensuring high performance and interoperability of RFID tags across various applications. By adhering to Auburn's standards, the AD-Sonic M830 inlay guarantees reliable read range and durability, making it a preferred choice for challenging environments.

### Zebra Certified for consistently exceptional performance

Zebra is ISO 9001 certified and uses quality processes to reduce instances of unsuccessful encoding. We pre-test labels with Zebra readers and printers to ensure industry-leading performance. Lastly, we use the same label material from order-to-order to safeguard consistency and quality.

### Unmatched expertise in RFID

Zebra is your trusted expert in all things RFID. We offer end-to-end RFID solutions – including pre-tested RFID supplies made with the right materials and adhesives, along with the highest-performing inlays and chips – customized for your application. We have played a central role in pioneering RFID technologies and defining global standards since the mid-1990's, when smart-label technology first appeared. We were recognized as the #1 RFID brand by the 2018 RFID Journal's Brand Report. And we hold more than 575 RFID patents and numerous industry firsts in RFID.

**AD-Sonic M830 RFID Inlay: offers superior read performance and reliability, even in challenging environments.**

For more information, please visit [www.zebra.com/rfidlabels](http://www.zebra.com/rfidlabels)

# Specifications

Technical Information	
Chip	M830
EPC Memory	128-bit
User Memory	N/A
TID	96 bit factory locked (48 bit unique)
Read Sensitivity	-25.5 dBm
Write Sensitivity	-20 dBm
RFID Standards	EPC Gen2v2
Read Range	Up to 20m in open air

### Theoretical Read Range: ETSI (865-868 MHz)<sup>1</sup>

Air	14 m
Cardboard	13 m
Fiberglass	9 m
Glass	7 m
PTFE	9 m
Polyacetyl	9 m
PVC	9 m
Rubber	8 m

### Theoretical Read Range: FCC (902-928 MHz)<sup>1</sup>

Air	11 m
Cardboard	8 m
Fiberglass	10 m
Glass	6 m
PTFE	10 m
Polyacetyl	11 m
PVC	12 m
Rubber	5 m

### Testing and Compliance

All inlays certified by Zebra have been pre-tested with Zebra printers and readers. Meets Auburn ARC Spec F, I, L, O, Q, R, W5, W6, Y2.

\*Approved ARC Specs listed at time of launch. ARC Specs are frequently added and updated, so the full list of approved specifications will change over time.

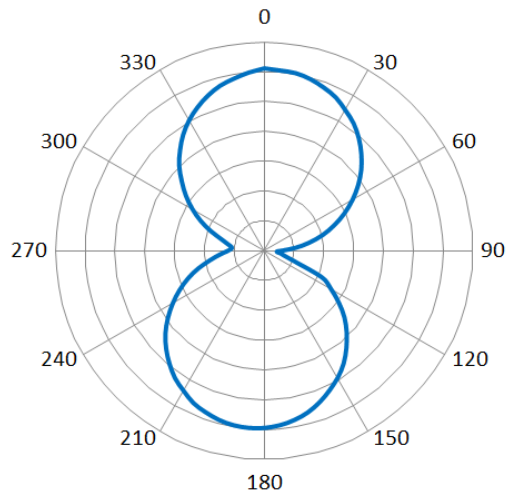
### Material Testing in End Application

The information contained in this document is to be used for guidance only and is not intended for use in setting specifications. All purchasers of Zebra products shall be solely responsible for independently determining if the product conforms to all requirements of their unique application.

### Footnotes

<sup>1</sup>Theoretical read range data is meant to be directional. Actual performance will depend on your application and environment. Testing is recommend.

### Radiation Pattern



## Markets and Applications

### Transport & Logistics

- Item level labeling

### Warehousing

- Item level labeling
- Work in Process

### Retail

- Item level labeling

### Healthcare

- Item level labeling



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