

AD DogBone M830 Inlay

Next-generation Advanced RFID Inlay

The AD DogBone M830 Inlay, featuring the advanced Impinj M830 IC with G2X capabilities, significantly enhances read performance and data throughput, benefiting various industries. In transport and logistics, and supply chain operations, it enables real-time tracking and efficient inventory management. In manufacturing and automotive sectors, it supports streamlined processes and precise tracking of parts, boosting productivity and quality control. The AD DogBone M830 Inlay delivers exceptional performance in challenging environments and on materials that are typically hard to tag, owing to its robust ability to withstand the detuning effects associated with high dielectric materials.



DogBone Shape Benefits

The DogBone shape is engineered to maximize the performance of the RFID antenna. Its design helps improve the read range and read reliability, ensuring that tags can be read accurately over longer distances and in challenging environments. The geometric configuration of the DogBone shape enhances the antenna's sensitivity, making it more responsive to RFID readers.

Custom RFID Labeling Solutions

We offer custom products for different label sizes or features, with 10+ stock items enabling you to get up and running with minimal investment and a short lead time. With our state-of-the-art presses and RFID manufacturing equipment, we can create a customized RFID labeling solution to meet the unique requirements of your application. And we can quickly recommend the optimal label material and inlay to achieve maximum ROI.

Unmatched Expertise in RFID

Zebra is your trusted expert in all things RFID. We offer end-to-end RFID solutions – including pre-tested RFID labels made with the right materials and adhesives, along with the highestperforming inlays and chips – customized for your specific application. We have played a central role in pioneering RFID technologies and defining global standards since the mid-1990s when smart label technology first emerged. We hold more than 575 RFID patents and numerous industry-firsts in RFID.

Print Confident. Print Quality. Print Zebra.

Zebra employs ISO 9001 quality processes to reduce instances of unsuccessful encoding. We pre-test labels with Zebra readers and printers to ensure industry-leading performance. And we offer you the latest generation of chips and consistent label materials from order to order – to deliver always-reliable, highquality RFID labels and tags every time.

AD DogBone M830 RFID Inlay - featuring the advanced Impinj M830 IC with G2X capabilities.

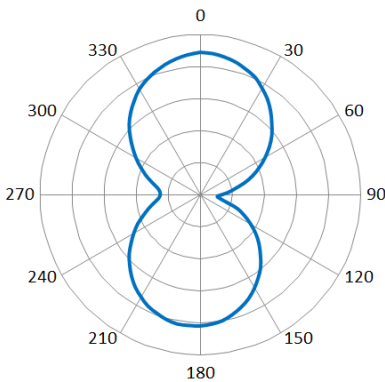
For more information visit www.zebra.com/rfidlabels

Specifications

Technical information	
Chip	Impinj M830 with G2X features
EPC memory	128 bit
User memory	N/A
TID	96 bit factory locked (48 bit unique)
Read sensitivity	-25.5dBm
Write sensitivity	-20dBm
RFID standards	EPC Gen2v2
Read range	Up to 22m (frequency and substrate dependent)
Theoretical Read Range: ETSI (865-868 MHz)*	
Air	19m
Cardboard	20m
Fiberglass	19m
Glass	17m
PTFE	22m
Polyacetyl	20m
PVC	21m
Rubber	17m
Theoretical Read Range: FCC (902-928 MHz)*	
Air	21m
Cardboard	19m
Fiberglass	17m
Glass	19m
PTFE	20m
Polyacetyl	18m
PVC	19m
Rubber	19m
Product Performance and Suitability	
Operating Temperature	-40°C / +85°C
Storage Temperature	-55°C / +125°C
Testing and Compliance	
All inlays certified by Zebra have been pre-tested with Zebra printers and readers.	

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.
Warranty
Supplies are warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For the complete warranty statement, please visit www.zebra.com/warranty
Footnotes
* Theoretical read range data is meant to be directional. Actual performance
Radiation Pattern
To learn more about Radiation Pattern, visit www.zebra.com/rfidlabels

Radiation Pattern



Markets and Applications

- Transportation & Logistics**
Pallet, case, and item tracking
- Warehousing**
Pallet, case, and item tracking
- Retail**
Pallet, case, and item tracking
- Automotive**
Case/item level labeling
- Manufacturing**
Pallet, case, and item tracking
- Public Sector**
Pallet, case, and item tracking



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