

Zebra ZBR2200 RFID Inlay

Next-generation Zebra-branded RFID Inlay

Designed by Zebra, a global leader in RFID, the competitively priced, general purpose ZBR2200 RFID inlay delivers excellent performance for manufacturing, retail, transportation, and logistics applications that require long read ranges. The latest Impinj M830 IC with G2X features offers improved read performance and enhanced data throughput for effective inventory or asset management. The chip design ensures reduced power consumption to extend tag lifespan, while increased tag memory supports detailed information storage. These improvements make the M830 ideal for businesses seeking reliable, efficient, and secure RFID solutions that enhance efficiency, optimizing operational workflows and asset management across a comprehensive range of use cases.



Ensure Fast, Accurate Reads at great value

The ZBR2200 general purpose RFID inlay delivers a step change in performance compared with other integrated circuits (ICs). Part of the Zebra RFID Value Tier and fully supported by Zebra RFID readers, it offers increased read ranges and a comprehensive choice of stock and custom options to optimize costs.

Custom RFID Labelling 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 labelling 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 highest-performing 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, high-quality RFID labels and tags every time.

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 19m (frequency and substrate dependent)
Theoretical Read Range: ETSI (865-868 MHz)*	
Air	15m
Cardboard	18m
Fiberglass	13m
Glass	11m
PTFE	18m
Polyacetyl	10m
PVC	13m
Rubber	11m
Theoretical Read Range: FCC (902-928 MHz)*	
Air	19m
Cardboard	14m
Fiberglass	16m
Glass	11m
PTFE	15m
Polyacetyl	13m
PVC	19m
Rubber	11m
Product Performance and Suitability	
Operating Temperature	°F to °F (-40°C / +85°C)
Storage Temperature	°F to °F (-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

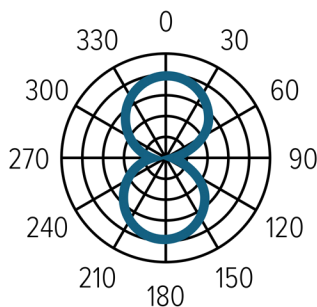
Supplies are warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For the complete warranty statement, please visit www.zebra.com/warranty

Footnotes

* Theoretical read range data is meant to be directional. Actual performance will depend on your application and environment. Testing is recommended. Specifications are subject to change without notice

Radiation Pattern

To learn more about Radiation Pattern, visit www.zebra.com/rfidlabels



Markets and Applications

Transportation & Logistics

- Pallet, case, and item tracking

Warehousing

- Pallet, case, and item tracking

Retail

- Pallet, case, and item tracking

Healthcare

- Pallet, case, and item tracking

Manufacturing

- Pallet, case, and item tracking

Public Sector

- Pallet, case, and item tracking



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Z-Perform 2000D Label

Direct thermal smooth paper label with a permanent acrylic adhesive

Whether you are printing shipping labels for e-commerce or labeling food products, you need reliable, high-quality trouble-free printing. And Zebra's Z-Perform 2000D label delivers. This direct thermal white paper label is engineered for quality and durability at an economical price. It's all-temperature permanent acrylic adhesive can be applied to surfaces as cold as -40°F/-40° C and meets FDA 175.105 for indirect food contact requirements. Its protective topcoat delivers optimal print quality when printing up to 8 inches per second, while ensuring minimal printhead wear. And with Zebra's legacy of craftsmanship and durability, you can count on optimized performance – with each and every label. Z-Perform 2000D labels are recommended for a wide variety of labeling applications.



Print Confident. Print Quality. Print Zebra.

Printing supplies can impact everything from printhead lifespan to operational efficiency. That's why we design, produce and rigorously pre-test our own line of thermal printing supplies to ensure consistent, optimized performance. We utilize an ISO 9001 certified, 23-point inspection process and consistent materials to ensure reliable performance from order-to-order. No matter when you order your labels, you can count on the same consistent performance.

Specially coated for trouble-free print

Z-Perform 2000D labels feature a protective topcoat for ultra-smooth printing that preserves the printhead of your printer. You also get excellent print quality and sharp definition. And the coating offers enhanced resistance to moisture, oils and other environmental factors to increase the durability of your labels.

Optimized for use with food products and in cold environments

With its all-temperature permanent acrylic adhesive, these labels can be securely applied in temperatures as low as -40°F/-40° C and will remain adhered in temperatures of -65°F to 131°F/-54°C to 55°C, making them perfect for use on assets in cold environments. The adhesive meets FDA 175.105 for indirect food contact and can be applied to shrink wrap and other food packaging.

Zebra ZipShip – on the shelf and ready to ship

Need your labels in a hurry? Z-Perform 2000D labels are part of our Zebra ZipShip Program – on the shelf and ready for immediate dispatch. You get fast shipment – and the minimum order is just one box.

Customization Available

Zebra can deliver Z-Perform 2000D labels in just about any size, shape or label set configuration to meet the requirements of your application and process. In addition, our flexographic print presses can add pre-printed text, graphics and color.

Specifications

Material Construction	
Raw Material Number	65791RM
Facestock	Direct thermal white smooth coated paper 3.0 mil/76.2 microns
Adhesive	All-temp, acrylic adhesive 0.5 mil/12.7 microns
Liner	40 lb/59 gsm semi-bleached kraft stock 2.5 mil/63.5 microns
Total Thickness (+/-10%)	6.0 mil/152.4 microns
Environment	Indoor use; cold temperature compatible
Temperature Performance	
Minimum Application Temperature¹	-40° F/-40°C
Service Temperature Range²	-65° F to 131° F/-54° C to 55° C
Recommended Printers and Ribbons	
Printers	Direct thermal printer; use Zebra desktop, industrial and mobile thermal printers for optimal performance
Ribbons	N/A
Adhesive Strength	
Corrugate	5 minute dwell time: 17 oz/in.
	24 hour dwell time: 18 oz/in.
Steel	5 minute dwell time: 49 oz/in.
	24 hour dwell time³
Polycarbonate	5 minute dwell time: 57 oz/in.
	24 hour dwell time³
Polyethylene	5 minute dwell time: 26 oz/in.
	24 hour dwell time: 46 oz/in.
Chemical Resistance	
Weak Chemicals	
Blood	Not Recommended
Body Fluid	Not Recommended
Salt Water	Test in your application
Water	Test in your application
Window Cleaner	Not Recommended
Moderate Chemicals	
Alcohol	Not recommended
Ammonia	Not recommended
Bleach	Not recommended
IPA	Not recommended
Harsh Chemicals	
Gasoline	Not recommended
Grease	Not recommended
Oil	Not recommended

Extreme Chemicals	
Acetone	Not recommended
IR Reflow	Not recommended
MEK	Not recommended
TCE	Not recommended
Xylene	Not recommended
Regulatory and Compliance	
FDA 175.105 for direct contact with dry foodstuffs, or alternatively separated by a functional barrier; BPA and latex free	
Product Performance and Suitability	
Recommended storage conditions	1 year duration when stored at 72° F/22° C at 50% RH
Expected life span in application⁴	Indoor use, for 1 year+
Sample Part Number	SAM65791

Material Testing in End Application	
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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	
1. When the label is applied, the environment and surface should be above this temperature. 2. Following correct application and appropriate dwell time (usually 24hrs) the media will withstand this temperature range. 3. Attraction between adhesive and surface is so great that the facestock rips. 4. Following correct application and appropriate dwell time (usually 24hrs) we expect, but do not warrant, a life span as indicated.	

Markets and Applications

- Warehousing**
- Compliance labeling
 - Shipping labeling
- Manufacturing**
- Product identification
 - Work-in-process
- Other**
- Standard box labeling



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