



EOS-240 M830

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Datasheet

Highly Efficient Inlay for Retail Applications

The EOS-240 M830 inlay is optimized within a small footprint to offer excellent performance in inventory management applications in retail and beyond. It is an ideal low-cost, high-value solution for non-food industries. With its small size, the EOS-240 M830 is well-suited for applications like retail apparel, cosmetics, accessories/sunglasses, jewelry, and pharmaceuticals.

EOS-240 M830 is available in dry, wet, and paper-face delivery formats.

The EOS-240 M830 is based on Impinj's M830 RAIN RFID IC with 128-bit EPC memory. It combines enhanced read sensitivity, AutoTune™ performance, and backscatter efficiency with Impinj Gen2X enhancements to the radio and logical layers of the RAIN radio standard that speed inventory counts, increase tag read range, and declutter the



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tag environment. As a result, the IC sets standards in solutions like high-speed inventory counting, loss prevention with frictionless self-checkout, and embedded tagging with seamless product returns.

Tageos maintains ARC Quality Certification for all its manufacturing sites worldwide and is one of the first companies to be certified by Auburn University's RFID Lab since 2020.

Tageos complies with ISO 9001:2025 Quality Management and ISO 14001:2015 Environmental Management as well as utilizing sustainable manufacturing processes and materials, such as FSC®-certified paper, whenever possible. In addition, all Tageos products meet the RoHS and REACH environmental directives.

Overview

IC:	Impinj M830
EPC/User Memory:	128 bit / - bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz (FCC)
Protocol:	EPC Class 1 Gen 2 - ISO 18000-63

Application Areas

- Apparel
- Inventory Visibility
- Item Level Tagging
- Pharma & Healthcare
- Supply Chain Management



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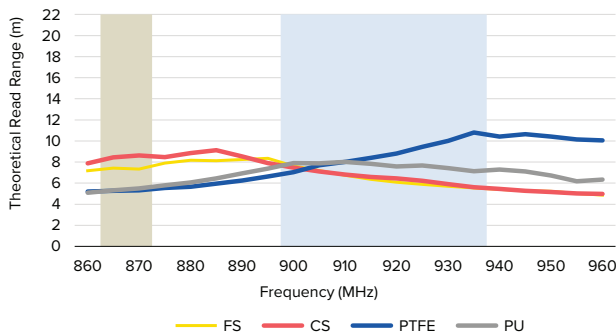
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Technical Overview

	Dry	Wet	Paper-face
Product Code	2400000337	2400000339	2400000336
Antenna Size	30 x 15 mm 1.18 x 0.59 in	30 x 15 mm 1.18 x 0.59 in	30 x 15 mm 1.18 x 0.59 in
Finish Size	-	35 x 20 mm 1.38 x 0.79 in	35 x 20 mm 1.38 x 0.79 in
Web Width	40.00 ± 1 mm 1.575 ± 0.04 in	40.00 ± 1 mm 1.575 ± 0.04 in	40.00 ± 1 mm 1.575 ± 0.04 in
Pitch	23.53 ± 0.2 mm 0.926 ± 0.01 in	23.53 ± 1 mm 0.926 ± 0.04 in	23.53 ± 1 mm 0.926 ± 0.04 in
ARC Approval	-	-	-
FSC® Certification	-	-	-
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	PET Clear	Paper TT
Inlay Substrate	PET Clear 50µm	PET Clear 50µm	PET Clear 50µm
Inlay Adhesive	-	permanent	permanent
Liner	-	Paper	Paper
Operating Temperature	-40°C / +85°C -40°F / +185°F @20% to 90% RH	-40°C / +85°C -40°F / +185°F @20% to 90% RH	-40°C / +85°C -40°F / +185°F @20% to 90% RH
Shelf Life	2 years @ +25°C/40%RH	2 years @ +25°C/40%RH	2 years @ +25°C/40%RH
Final Inspection	100% tested	100% tested	100% tested

Read Range



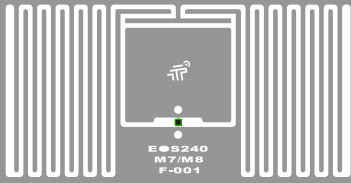
Contact:

Tageos SAS (HQ) . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com



Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices to minimize Electro Static Discharge. Tageos reserves the right to change its products and services at any time without notice. As our products are used in circumstances beyond our control, we cannot be held liable for any damages caused through their use. This is a general purpose product not designed or intended for any specific application.

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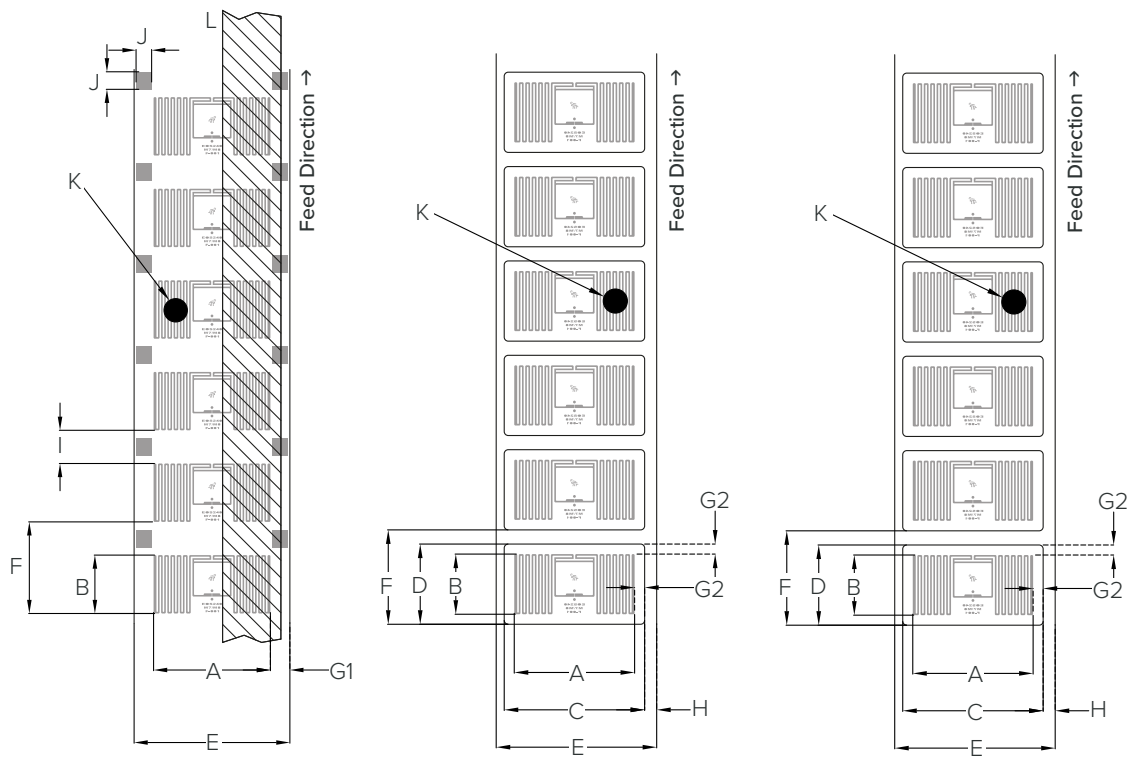


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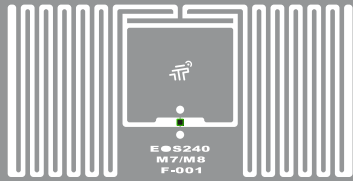
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Product Specifications

Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	2400000337	2400000339	2400000336
Antenna Size	A x B 30 x 15 mm / 1.18 x 0.59 in	30 x 15 mm / 1.18 x 0.59 in	30 x 15 mm / 1.18 x 0.59 in
Finish Size	C x D - / -	35 x 20 mm / 1.38 x 0.79 in	35 x 20 mm / 1.38 x 0.79 in
Web Width	E 40.00 ± 1 mm / 1.575 ± 0.04 in	40.00 ± 1 mm / 1.575 ± 0.04 in	40.00 ± 1 mm / 1.575 ± 0.04 in
Pitch	F 23.53 ± 0.2 mm / 0.926 ± 0.01 in	23.53 ± 1 mm / 0.926 ± 0.04 in	23.53 ± 1 mm / 0.926 ± 0.04 in
Antenna to Web Edge	G1 5.0 ± 1 mm / 0.197 ± 0.04 in	-	-
Antenna to Die-cut	G2 -	2.5 ± 1 mm / 0.098 ± 0.04 in	2.5 ± 1 mm / 0.098 ± 0.04 in
Die-cut to Web Edge	H -	3.0 ± 1 mm / 0.118 ± 0.04 in	3.0 ± 1 mm / 0.118 ± 0.04 in
Antenna Gap	I 8.53 mm / 0.336 in	-	-
Converting Spot	J 4.0 x 4.5 mm / 0.157 x 0.177 in	-	-
Bad Mark	K Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in
Interleaves	L Yes	No	No



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Packing Details

	Dry	Wet	Paper-face
Product Code	2400000337	2400000339	2400000336
Delivery Format	Roll (single row)	Roll (single row)	Roll (single row)
Core Inner Diameter	76 mm / 2.99 in	76 mm / 2.99 in	76 mm / 2.99 in
Roll Outer Diameter	282 mm / 11.1 in	332 mm / 13.07 in	201 mm / 7.91 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	24 000 (-0% +1.5%)	20 000 (-0% +1.5%)	4 500 (-0% +1.5%)
Min. Guar. Yield/Roll	99%	99%	99%
Box Dimensions	39.5 x 39.0 x 17.0 cm / 15.56 x 15.35 x 6.69 in	39.5 x 39.0 x 17.0 cm / 15.56 x 15.35 x 6.69 in	26.0 x 26.0 x 37.0 cm / 10.24 x 10.24 x 14.57 in
Roll/Box	3	3	7
Inlays/Box	72 000	60 000	31 500
Box Gross Weight	8.73 kg / 19.25 lbs	11.07 kg / 24.41 lbs	8.66 kg / 19.08 lbs
Pallet Dimensions	120 x 80 x 151 cm / 47.2 x 31.5 x 59.4 in	120 x 80 x 151 cm / 47.2 x 31.5 x 59.4 in	120 x 80 x 126 cm / 47.2 x 31.5 x 49.6 in
Boxes/Pallet	48	48	36
Inlays/Pallet	3 456 000	2 880 000	1 134 000
Pallet Gross Weight	444 kg / 979 lbs	556 kg / 1 226 lbs	337 kg / 743 lbs

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