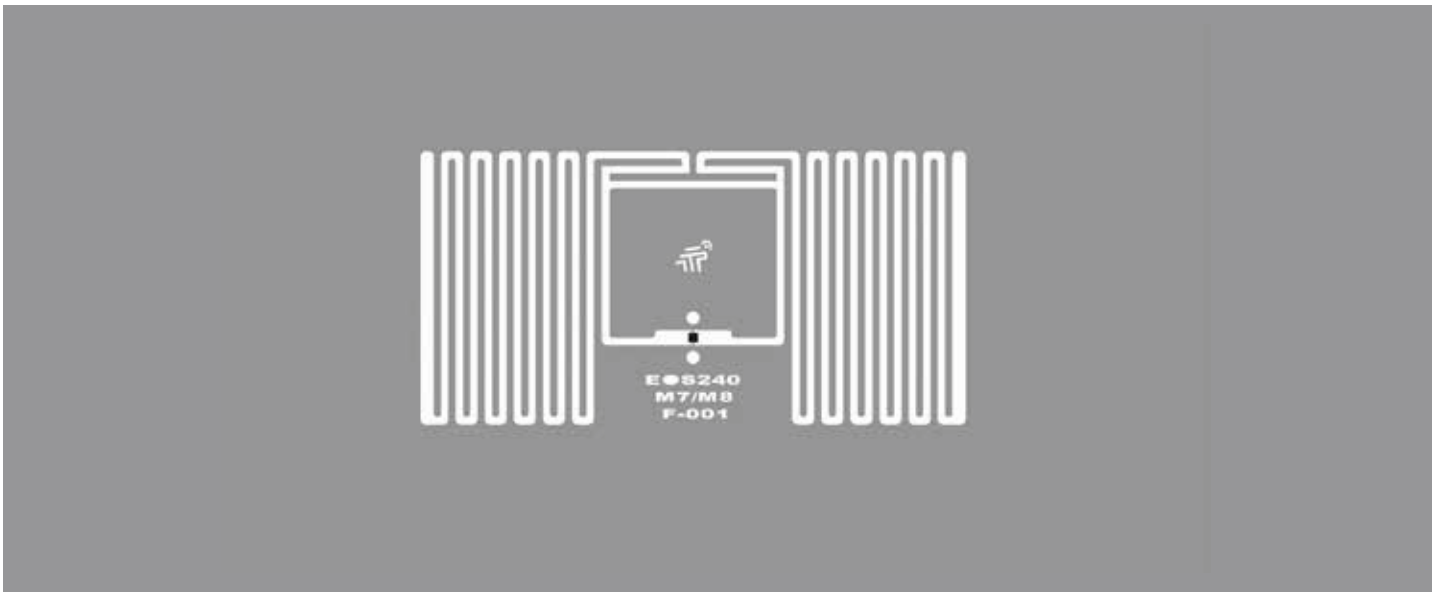
EOS-240 M830

Highly efficient inlay for retail applications



The EOS-240 M830 inlay is optimized within a small footprint to deliver excellent performance in retail inventory management and other applications. It is an ideal low-cost, high-value solution for non-food industries. Thanks to its small size, the EOS-240 M830 is well suited for applications such as apparel, cosmetics, accessories/sunglasses, jewelry and pharmaceutical retail. The 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 logic layers of the RAIN radio standard, which speed up inventory counts, increase tag read range and clear up the tag environment.

GL Retail & Investments LLC
20801 Biscayne Blvd, Suite 403, Aventura, FL 33180, USA
david@glretail.us
glretail.us

As a result, the EOS-240 M830 sets new standards in applications such as:

- High-speed inventory counting
- Loss prevention with frictionless self-checkout
- Embedded labeling with simpler product returns

Certifications:

The EOS-240 M830 maintains ARC quality certification at all its manufacturing plants worldwide and was one of the first companies to obtain Auburn University RFID Lab certification, since 2020. It complies with ISO 9001:2025 quality management and ISO 14001:2015 environmental management standards, and uses sustainable manufacturing processes and materials, such as FSC®-certified paper, whenever possible. It also complies with the RoHS and REACH environmental directives.

Summary

IC: Impinj M830

EPC/User Memory: 128 bits / - bits

TID Memory: 96 bits, incl. 48-bit unique S/N

Frequency Band: 860 - 960 MHz

Protocol: EPC Class 1 Gen 2 / ISO 18000-63

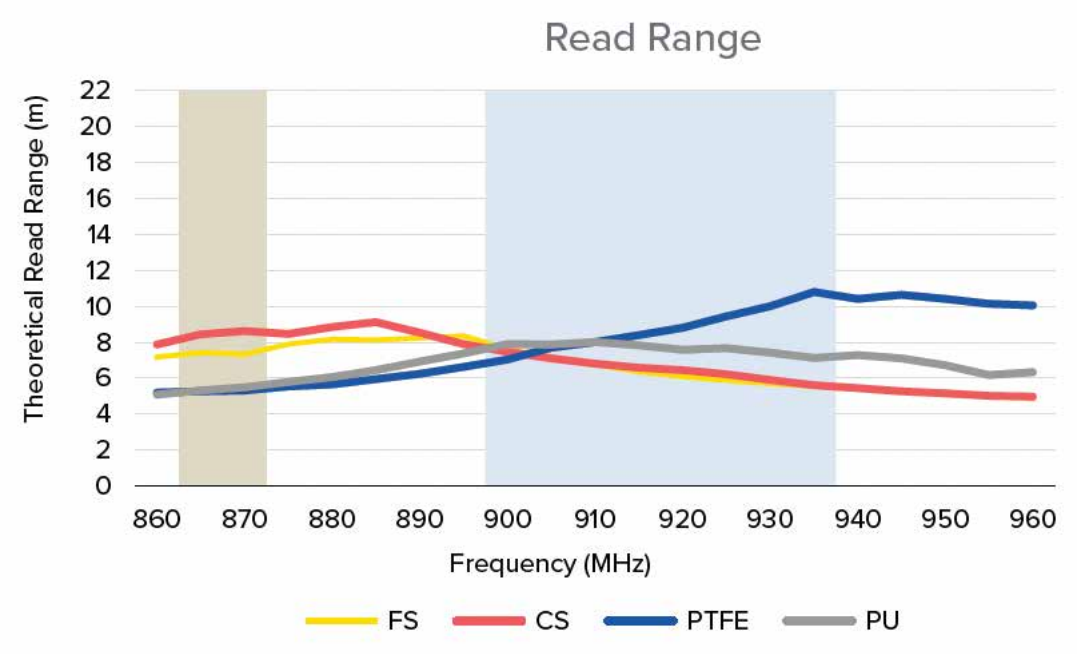
Application Areas

- Item-level tagging
- Apparel
- Pharmacy and healthcare
- Inventory visibility
- Supply chain management

GL Retail & Investments LLC
20801 Biscayne Blvd, Suite 403, Aventura, FL 33180, USA
david@glretail.us
glretail.us

Technical Specifications

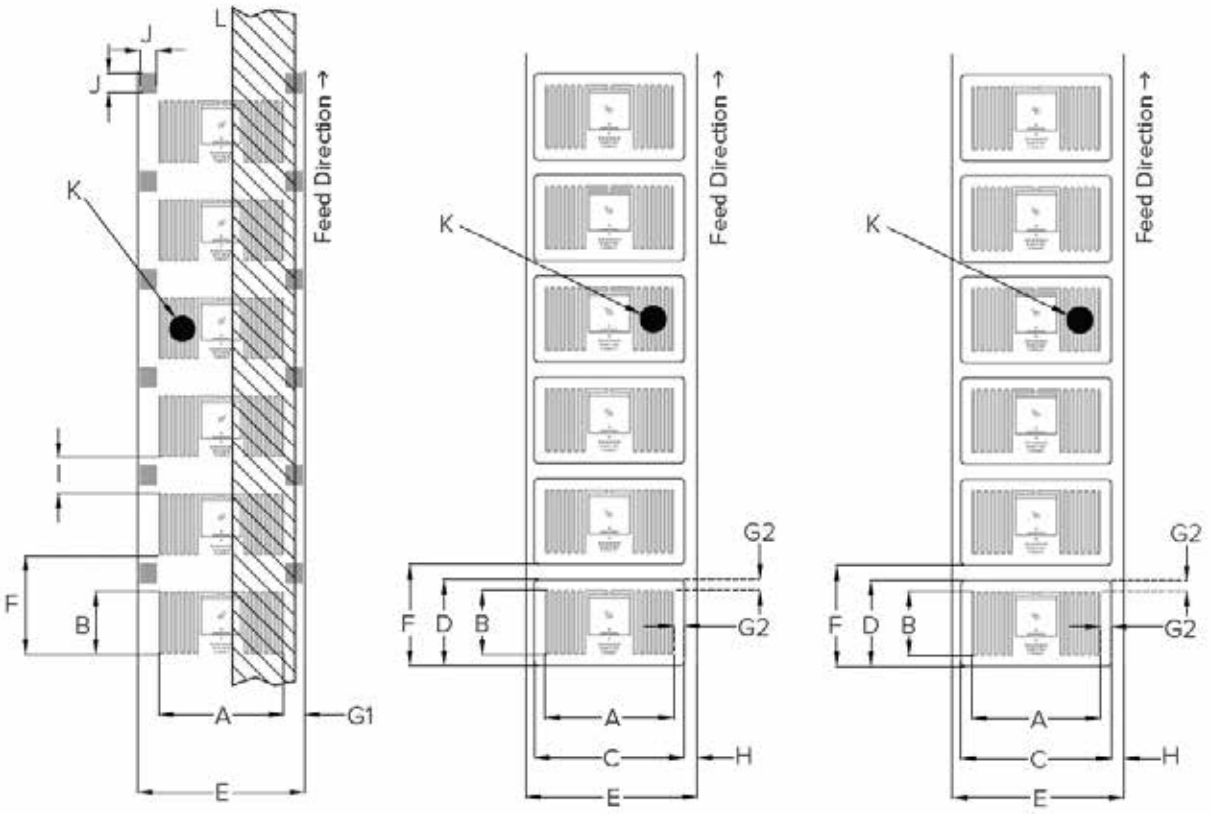
	Dry	Wet	Paper-face
Product Code	2400000337	2400000339	2400000336
Antenna Size	30 x 15 mm	30 x 15 mm	30 x 15 mm
	1.18 x 0.59 in	1.18 x 0.59 in	1.18 x 0.59 in
Finish Size	-	35 x 20 mm	35 x 20 mm
	-	1.38 x 0.79 in	1.38 x 0.79 in
Web Width	40.00 ± 1 mm	40.00 ± 1 mm	40.00 ± 1 mm
	1.575 ± 0.04 in	1.575 ± 0.04 in	1.575 ± 0.04 in
Pitch	23.53 ± 0.2 mm	23.53 ± 1 mm	23.53 ± 1 mm
	0.926 ± 0.01 in	0.926 ± 0.04 in	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	-40°C / +85°C | -40°F / +185°F	-40°C / +85°C | -40°F / +185°F
	@20% to 90% RH	@20% to 90% RH	@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



IMPINJ CONNECTED

GL Retail & Investments LLC
20801 Biscayne Blvd, Suite 403, Aventura, FL 33180, USA
david@glretail.us
glretail.us

Product Specifications



		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

GL Retail & Investments LLC
20801 Biscayne Blvd, Suite 403, Aventura, FL 33180, USA
david@glretail.us
glretail.us

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

GL Retail & Investments LLC
20801 Biscayne Blvd, Suite 403, Aventura, FL 33180, USA
david@glretail.us
glretail.us