

EOS-240 M730

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Datasheet

FCC-Compliant and Highly Efficient Solution for Retail Applications

The EOS-240 M730 FCC inlay is optimized within a small footprint to offer excellent performance in inventory management related applications in retail and beyond. It is an ideal low-cost high-value solution for non-food industries within the geographical scope of FCC regulations. Inlay users typically come from segments such as retail apparel, cosmetics, accessories/sunglasses, jewelry, and also pharmaceuticals.

Equipped with 128-bit EPC memory, the Impinj M730 RAIN RFID chip provides high performance, fast inventory capability, and advanced features for next-generation, universal RAIN RFID tags. It lends itself to solutions that include high-speed inventory counting, loss prevention with frictionless self-checkout, and embedded tagging with seamless product returns.



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The EOS-240 M730 inlay is an FCC-tuned design, and it is available in dry, wet and paper-face formats.

Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab. EOS-240 M730 complies with ARC specification Q.

Like all Tageos' RFID products, EOS-240 M730 complies with ISO 9001:2015 Quality Management System and ISO 14001:2015 Environmental Management System as well as Environmental Directives RoHS and REACH, utilizing sustainable materials such as FSC® certified paper whenever possible.

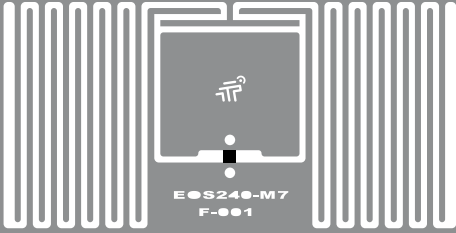
Overview

IC:	Impinj M730
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
- Healthcare and Pharma
- Logistics
- Supply Chain Management





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Technical Overview

	Dry	Wet	Paper-face
Product Code	2000000092	2000000083	2000000084
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	40.0 ± 1 mm 1.575 ± 0.04 in	40.0 ± 1 mm 1.575 ± 0.04 in	40.0 ± 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
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	Clear PET	TT Paper
Inlay Substrate	Clear PET	Clear PET	Clear PET
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
Final Inspection	100% tested	100% tested	100% tested
Market Approvals	Q	Q	Q

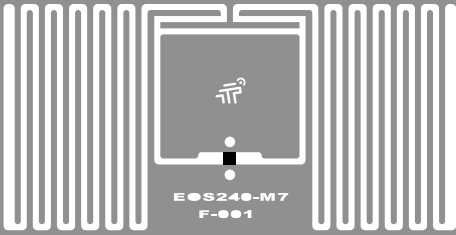


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Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** 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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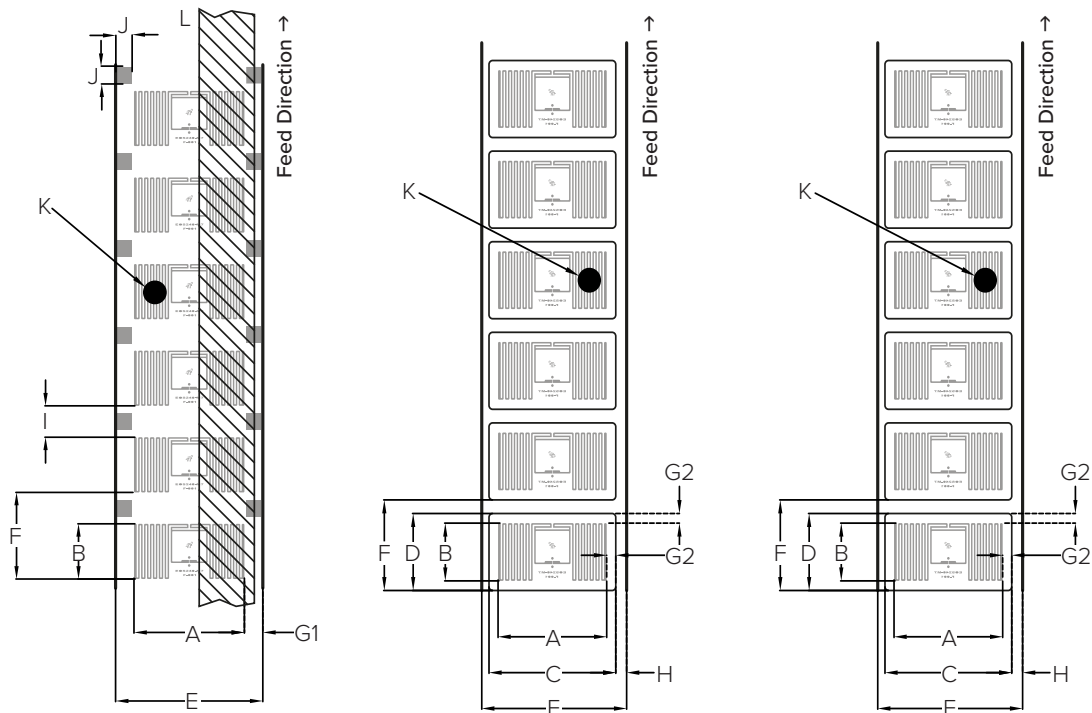


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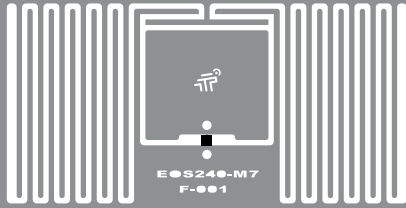
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Product Specifications

Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	2000000092	2000000083	2000000084
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 40.0 ± 1 mm / 1.575 ± 0.04 in	40.0 ± 1 mm / 1.575 ± 0.04 in	40.0 ± 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 4.5 x 4.0 mm / 0.177 x 0.157 in	-	-
Bad Mark	K Ø 6 mm / 0.236 in	Ø 6 mm / 0.236 in	Ø 6 mm / 0.236 in
Interleaves	L yes	no	no



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Packing Details

	Dry	Wet	Paper-face
Product Code	2000000092	2000000083	2000000084
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 / 11.10 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	20 000	4 500
Min. Guar. Yield/Roll	98.5%	98.5%	98.5%
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	8.25 kg / 18.19 lbs	10.58 kg / 23.32 lbs	7.75 kg / 17.09 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	421 kg / 928 lbs	533 kg / 1175 lbs	304 kg / 670 lbs

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