

EOS-300 M730

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Datasheet



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Performance and Efficiency for High-volume Applications

The EOS-300 M730 inlay has an optimized compact form factor that is ideal for retail hang tags and logistics packaging. It offers high orientation sensitivity and excellent overall performance that makes it suitable for a wide range of materials in dense tagging environments. Hence, it is an ideal solution for inventory control in non-food industries such as retail, logistics, and supply chain management.

As a small, globally operable inlay, EOS-300 M730 is perfect for large-scale, worldwide deployments, simplifying the tag supply chain for global enterprises.

Equipped with 128-bit EPC memory, the inlays' Impinj M730 RAIN RFID chip provides high performance, fast inventory capability, and advanced features for next-generation, universal RAIN RFID tags.

The IC is particularly suitable for solutions that include high-speed inventory counting, loss prevention with frictionless self-checkout, and embedded tagging with seamless product returns.

EOS-300 M730 is available in dry, wet and paper-face format. Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab. The inlay fulfills ARC specifications F, G, I, J, K, L, N, O, Q, R, Y, Y2, W1, W2, W3, W4, W5 and W6.

Like all Tageos' RFID products, EOS-300 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.

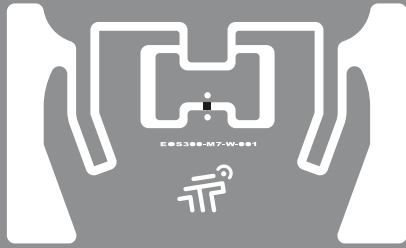
Overview

IC:	Impinj M730
EPC/User Memory:	128 bit / - bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz
Protocol:	EPC Class 1 Gen 2 ISO 18000-6c

Application Areas

- Apparel
- Inventory Visibility
- Item Level Tagging
- Logistics
- Supply Chain Management





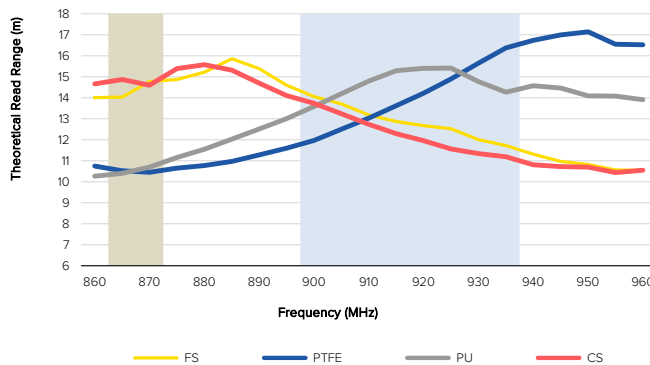
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Technical Overview

	Dry	Wet	Paper-face
Product Code	3000000125	3000000116	3000000117
Antenna Size	50 x 30 mm 1.97 x 1.18 in	50 x 30 mm 1.97 x 1.18 in	50 x 30 mm 1.97 x 1.18 in
Finish Size	-	54 x 34 mm 2.12 x 1.34 in	54 x 34 mm 2.12 x 1.34 in
Web Width	60.0 ± 1 mm 2.362 ± 0.04 in	60.0 ± 1 mm 2.362 ± 0.04 in	60.0 ± 1 mm 2.362 ± 0.04 in
Pitch	38.10 ± 0.2 mm 1.500 ± 0.01 in	38.10 ± 1 mm 1.500 ± 0.04 in	38.10 ± 1 mm 1.500 ± 0.04 in
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	Clear plastic	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	F, G, I, J, K, L, N, O, Q, R, Y, Y2; W1, W2, W3, W4, W5, W6	F, G, I, J, K, L, N, O, Q, R, Y, Y2; W1, W2, W3, W4, W5, W6	F, G, I, J, K, L, N, O, Q, R, Y, Y2; W1, W2, W3, W4, W5, W6

Read Range

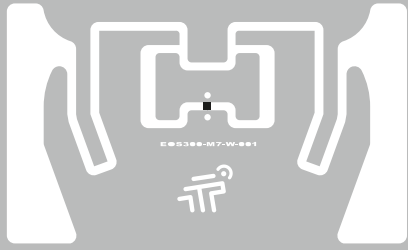


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Graphs: All the graphs are indicative: performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:**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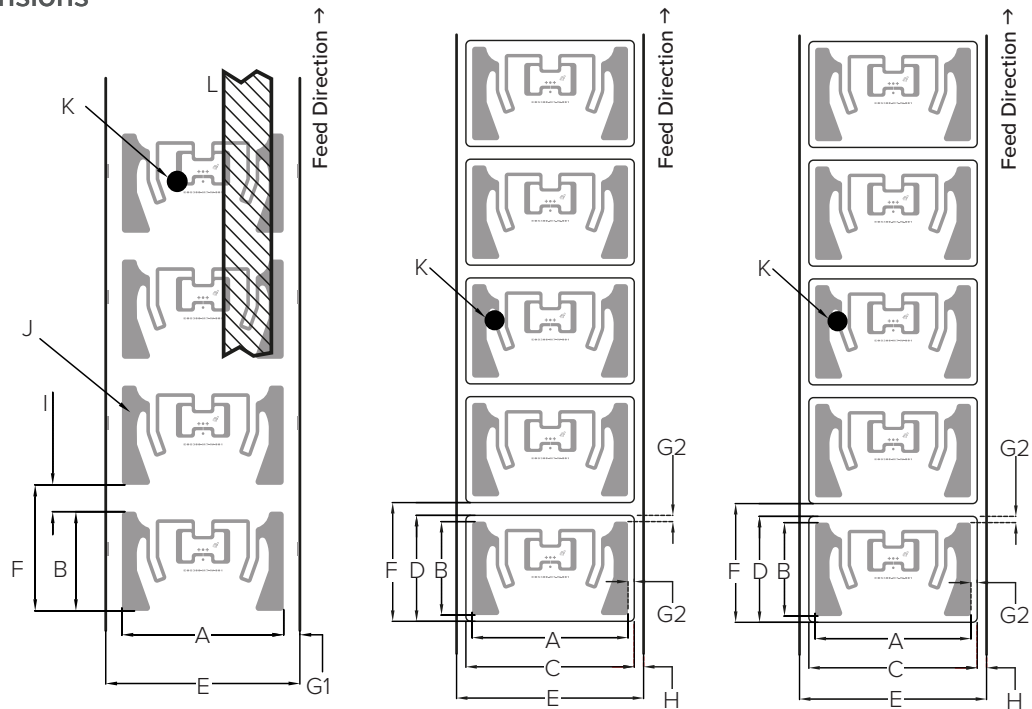


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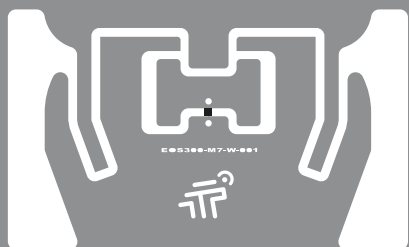
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Product Specifications

Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	3000000125	3000000116	3000000117
Antenna Size	A x B 50 x 30 mm / 1.97 x 1.18 in	50 x 30 mm / 1.97 x 1.18 in	50 x 30 mm / 1.97 x 1.18 in
Finish Size	C x D -	54 x 34 mm / 2.12 x 1.34 in	54 x 34 mm / 2.12 x 1.34 in
Web Width	E 60.0 ± 1 mm / 2.362 ± 0.04 in	60.0 ± 1 mm / 2.362 ± 0.04 in	60.0 ± 1 mm / 2.362 ± 0.04 in
Pitch	F 38.10 ± 0.2 mm / 1.500 ± 0.01 in	38.10 ± 1 mm / 1.500 ± 0.01 in	38.10 ± 1 mm / 1.500 ± 0.01 in
Antenna to Web Edge	G1 5.0 ± 1 mm / 0.197 ± 0.04 in	-	-
Antenna to Die-cut	G2 -	2.0 ± 1 mm / 0.079 ± 0.04 in	2.0 ± 1 mm / 0.079 ± 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 8.10 mm / 0.319 in	-	-
Converting Spot	J 4.60 x 30.0 / 0.181 x 1.181 in	-	-
	*antenna section can be used		
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	3000000125	3000000116	3000000117
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	308 mm / 12.13 in	340 mm / 13.39 in	207 mm / 8.15 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	18 000	13 000	3 000
Minimum Roll Yield	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	2	2	5
Inlays/Box	36 000	26 000	15 000
Box Gross Weight	9.04 kg / 19.93 lbs	11.58 kg / 25.53 lbs	9.31 kg / 20.53 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	1 728 000	1 248 000	540 000
Pallet Gross Weight	459 kg / 1 012 lbs	581 kg / 1 281 lbs	360 kg / 794 lbs

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