



EOS-510 M730

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Datasheet

Superior Solution for Sports Timing and Other Range Sensitive Applications



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The EOS-510 M730 inlay is optimized for superior read ranges of up to 20 meters. Its specific antenna design makes the RAIN RFID inlay the perfect solution for sports timing and other range sensitive applications such as item-level tagging, inventory visibility, supply chain management, and track & trace.

Due to its homogenous RF performance across all UHF RFID frequency ranges, sports organizers, industrial and logistics companies from all over the world benefit alike from the performance of the EOS-510 M730 inlay.

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.

Utilizing a PET substrate for robustness, EOS-510 M730 is available in dry and wet delivery formats.

Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab. Like all Tageos' RFID products, the EOS-510 M730 inlay 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 18000-63

Application Areas

- Inventory Visibility
- Item Level Tagging
- Sports Timing
- Supply Chain Management
- Track and Trace

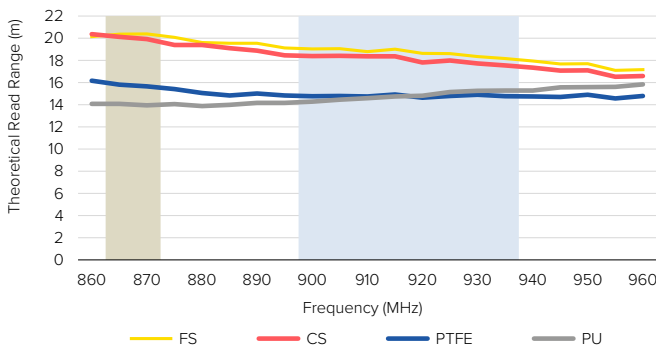




Technical Overview

	Dry Inlay	Wet Inlay
Product Code	5100000001	5100000003
Antenna Size	120 x 12 mm 4.72 x 0.47 in	120 x 12 mm 4.72 x 0.47 in
Finish Size	-	123 x 15 mm 4.84 x 0.59 in
Web Width	130 ± 1 mm 5.12 ± 0.04 in	130 ± 1 mm 5.12 ± 0.04 in
Pitch	18.18 ± 0.2 mm 0.72 x 0.01 in	18.18 ± 0.2 mm 0.72 x 0.01 in
Antenna Material	Aluminium	Aluminium
Front Face	-	Clear PET
Inlay Substrate	Clear PET	Clear PET
Inlay Adhesive	-	Permanent
Liner	-	Paper
Operating Temperature	-40°C / +85°C -40°F / +185°F	-40°C / +85°C -40°F / +185°F
Final Inspection	100% tested	100% tested
ARC Approvals	-	-

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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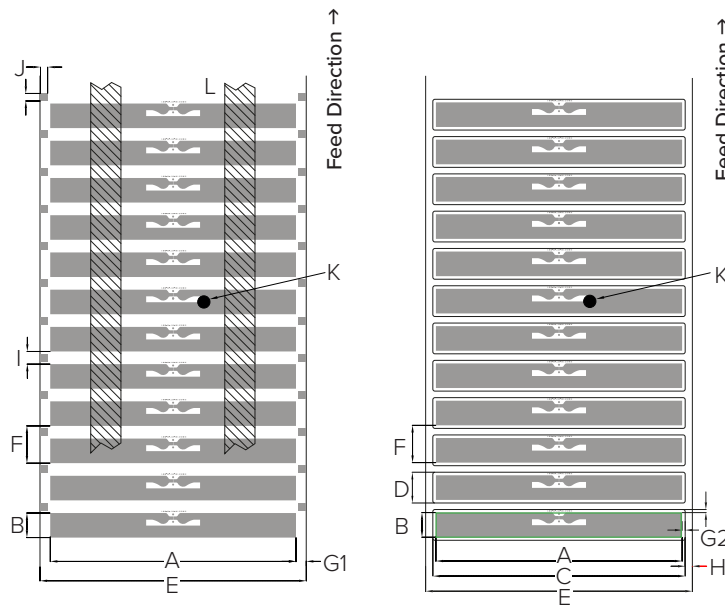


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Product Specifications

Mechanical Dimensions



	Dry Inlay		Wet Inlay	
Product Code		510000001		510000003
Antenna Size	A x B	120 x 12 mm / 4.72 x 0.47 in		120 x 12 mm / 4.72 x 0.47 in
Finish Size	C x D	-		123 x 15 mm / 4.84 x 0.59 in
Web Width	E	130 ± 1 mm / 5.12 ± 0.04 in		130 ± 1 mm / 5.12 ± 0.04 in
Pitch	F	18.18 ± 0.2 mm / 0.72 x 0.01 in		18.18 ± 0.2 mm / 0.72 x 0.01 in
Antenna to Web Edge	G1	5 ± 1 mm / 0.20 ± 0.04 in		-
Antenna to Die-cut	G2	-		1.5 ± 1 mm / 0.06 ± 0.04 in
Die-cut to Web Edge	H	-		3.5 ± 1 mm / 0.14 ± 0.04 in
Antenna Gap	I	6.18 mm / 0.24 in		-
Converting Spot	J	3.5 x 3.7 mm / 0.14 x 0.15 in		-
Bad Mark	K	Ø 6 mm / 0.24 in		Ø 6 mm / 0.24 in
Interleaves	L	Yes		No



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Packing Details

	Dry Inlay	Wet Inlay
Product Code	5100000001	5100000003
Delivery Format	Roll (single row)	Roll (single row)
Core Inner Diameter	76 mm / 2.99 in	76 mm / 2.99 in
Roll Outer Diameter	316 mm / 12.44 in	333 mm / 13.11 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	40 000	26 000
Min. Guar. Yield/Roll	98.5%	98.5%
Box Dimensions	39.5 x 39 x 17 cm / 15.5 x 15.3 x 6.7 in	39.5 x 39 x 17 cm / 15.5 x 15.3 x 6.7 in
Roll/Box	1	1
Inlays/Box	40 000	26 000
Box Gross Weight	9.30 kg / 20.50 lbs	11.78 kg / 25.97 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
Boxes/Pallet	48	48
Inlays/Pallet	1 920 000	1 248 000
Pallet Gross Weight	471 kg / 1038 lbs	590 kg / 1301 lbs

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