



EOS-350 M730

TAGEOS

Datasheet



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High Performance and Small Size for Aviation Baggage Tracking

The EOS-350 M730 inlay was designed with IATA Resolution 753 in mind and combines two features that make it ideal for airline baggage tracking applications: an extra-compact size – a 17 % smaller antenna than the second smallest product on ARC's "Approved Inlay List - Spec U" (as of December 2021) – and the pioneering use of Impinj's latest M700 IC technology.

As a particularly small, light RAIN RFID inlay that doesn't compromise on global performance, EOS-350 M730 contributes to reducing the carbon footprint of aircraft operation.

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.

The EOS-350 M730 inlay 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-350 M730 complies with ARC specification U.

Like all Tageos' RFID products, it complies with ISO 9001:2015 Quality 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

- Aviation
- Luggage Tracking
- Inventory Visibility
- Item Level Tagging



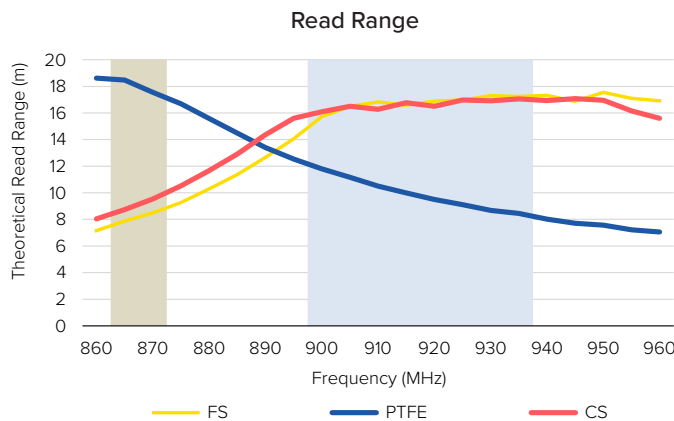


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Technical Overview

	Dry inlay	Wet Inlay	Paper-face Inlay
Product Code	3500000001	3500000003	3500000004
Antenna Size	30 x 60 mm 1.18 x 2.36 in	30 x 60 mm 1.18 x 2.36 in	30 x 60 mm 1.18 x 2.36 in
Finish Size	-	33 x 63 mm 1.30 x 2.48 in	33 x 63 mm 1.30 x 2.48 in
Web Width	40 ± 1 mm 1.57 ± 0.04 in	40 ± 1 mm 1.57 ± 0.04 in	40 ± 1 mm 1.57 ± 0.04 in
Pitch	66.68 ± 1 mm 2.63 ± 0.04 in	66.68 ± 1 mm 2.63 ± 0.04 in	66.68 ± 1 mm 2.63 ± 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
ARC Approvals	U	U	U



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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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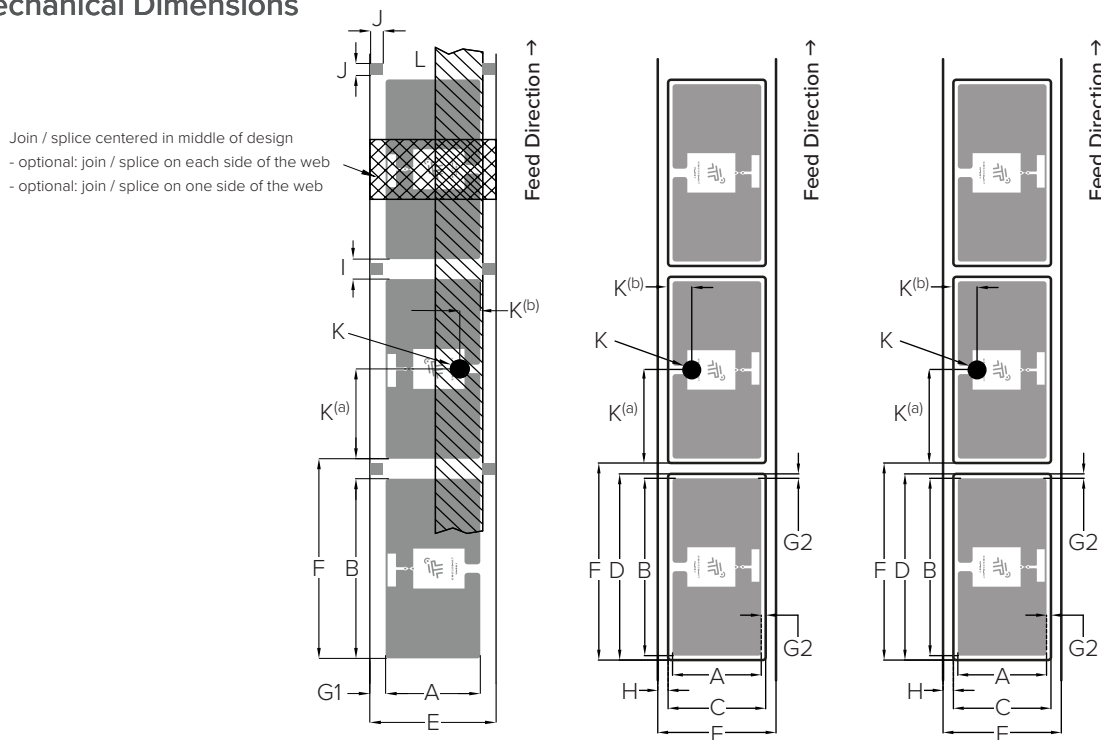


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Product Specifications

Mechanical Dimensions



		Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code		3500000001	3500000003	3500000004
Antenna Size	A x B	30 x 60 mm / 1.18 x 2.36 in	30 x 60 mm / 1.18 x 2.36 in	30 x 60 mm / 1.18 x 2.36 in
Finish Size	C x D	-	33 x 63 mm / 1.30 x 2.48 in	33 x 63 mm / 1.30 x 2.48 in
Web Width	E	40 ± 1 mm / 1.57 ± 0.04 in	40 ± 1 mm / 1.57 ± 0.04 in	40 ± 1 mm / 1.57 ± 0.04 in
Pitch	F	66.68 ± 1 mm / 2.63 ± 0.04 in	66.68 ± 1 mm / 2.63 ± 0.04 in	66.68 ± 1 mm / 2.63 ± 0.04 in
Antenna to Web Edge	G1	5 ± 1 mm / 0.2 ± 0.04 in	-	-
Antenna to Die-cut	G2	-	1.5 ± 1 mm / 0.06 ± 0.04 in	1.5 ± 1 mm / 0.06 ± 0.04 in
Die-cut to Web Edge	H	-	3.5 ± 1 mm / 0.14 ± 0.04 in	3.5 ± 1 mm / 0.14 ± 0.04 in
Antenna Gap	I	6.68 mm / 0.26 in	-	-
Converting Spot	J	4 x 4 mm / 0.16 x 0.16 in	-	-
Bad Mark	K	Ø 6 mm / 0.24 in 30 ± 10 mm / 1.18 ± 0.39 in ^(a) 6.5 ± 5 mm / 0.26 ± 0.2 in ^(b)	Ø 6 mm / 0.24 in 31.5 ± 10 mm / 1.24 ± 0.39 in ^(a) 8 ± 5 mm / 0.31 ± 0.2 in ^(b)	Ø 6 mm / 0.24 in 31.5 ± 10 mm / 1.24 ± 0.39 in ^(a) 8 ± 5 mm / 0.31 ± 0.2 in ^(b)
Interleaves	L	yes	no	no



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Packing Details

	Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code	3500000001	3500000003	3500000004
Delivery Format	Roll (single row)	Roll (single row)	Roll (single row)
Core Inner Diameter	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Roll Outer Diameter	341 mm / 13.43 in	318 mm / 12.52 in	196 mm / 7.72 in
Unwinding Direction	Label on outside of roll	Label on outside of roll	Label on outside of roll
Standard Roll Size	12 800	6 400	1 500
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 x 26 x 37 cm / 10.24 x 10.24 x 14.57 in
Roll/Box	3	3	7
Inlays/Box	38 400	19 200	10 500
Box Gross Weight	10.59 kg / 23.35 lbs	9.93 kg / 21.90 lbs	7.57 kg / 16.69 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	1 843 200	921 600	378 000
Pallet Gross Weight	533 kg / 1175 lbs	502 kg / 1107 lbs	298 kg / 657 lbs

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