

EOS-241 M730

TAGEOS

Datasheet



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Global-Compliant Versatile Solution for Retail and Logistics

The EOS-241 M730 inlay combines superior read performance with a compact antenna size that is appropriate for item-level applications in retail and logistics. Optimized for use on diverse packaging materials, the inlay is ideal for inventory management in a wide range of non-food industries including retail apparel, supply chain, logistics, and pharmaceutical/healthcare.

It is based on Impinj's M730 RAIN RFID IC, which features 128-bit EPC memory, and provides high performance, fast inventory capability, and advanced features for next-generation, universal RAIN RFID tags. The IC is well suited for solutions that include high-speed inventory counting, loss prevention with frictionless self-checkout, and embedded tagging with seamless product returns.

The EOS-241 M730 inlay is a fully documented and proven FSC®-certified product made from materials sourced from well-managed FSC®-certified forests, recycled materials, and other controlled sources.

Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab. EOS-241 M730 complies with ARC specifications F, G, N, O, Q, W2, W5 and W6.

Like all Tageos' RFID inlays and tags, EOS-241 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 manufacturing processes and materials, such as FSC®-certified paper whenever possible.

Overview

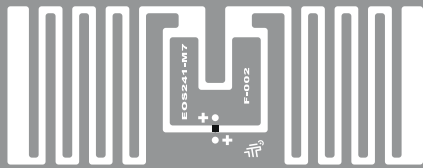
IC:	Impinj M730
EPC/User Memory:	128 bit / - bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz (FCC)
Protocol:	EPC Class 1 Gen 2 - ISO 18000-63

Application Areas

- Apparel
- Inventory Visibility
- Item Level Tagging
- Pharma & Healthcare
- Supply Chain Management



The mark of responsible forestry
FSC® C166692

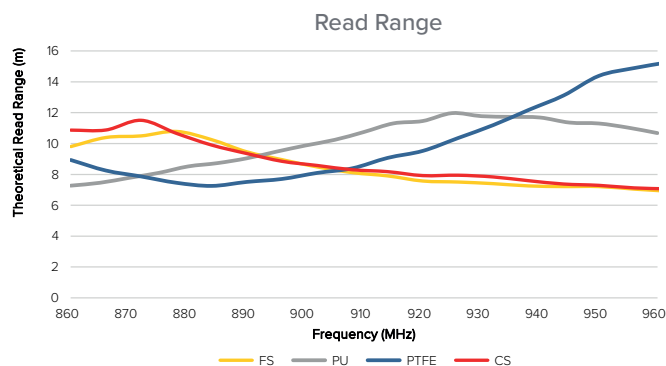


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Technical Overview

	Paper-face
Product Code	2400000290
Antenna Size	42 x 16 mm 1.65 x 0.63 in
Finish Size	44 x 18 mm 1.73 x 0.71 in
Web Width	48.00 ± 1 mm 1.890 ± 0.04 in
Pitch	22.23 ± 1 mm 0.875 ± 0.04 in
ARC Approvals	F, G, N, O, Q, W2, W5, W6
FSC® Certification	FSC® Mix (C166692)
Antenna Material	Aluminium
Front Face	Paper TT
Inlay Substrate	PET Clear 50µm
Inlay Adhesive	permanent
Liner	Paper
Operating Temperature	-40°C / +85°C -40°F / +185°F @20% to 90% RH
Shelf Life	2 years @ +25°C/40%RH
Final Inspection	100% tested



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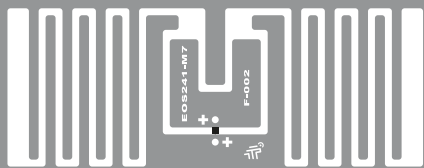
Tageos SAS (HQ) . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com

 **RoHS**
compliant



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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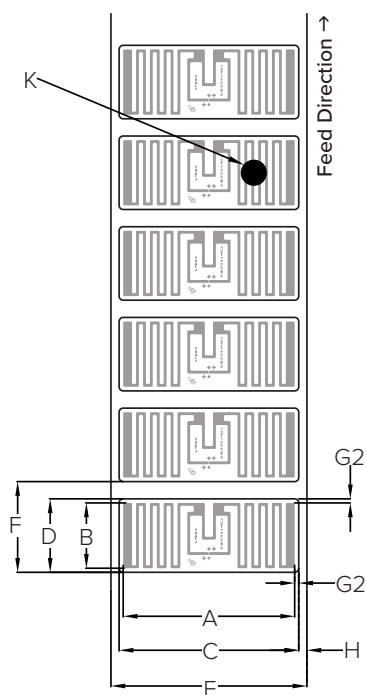


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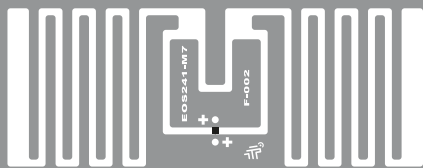
Product Specifications

Mechanical Dimensions



Paper-face

Product Code	2400000290
Antenna Size	A x B 42 x 16 mm / 1.65 x 0.63 in
Finish Size	C x D 44 x 18 mm / 1.73 x 0.71 in
Web Width	E 48.00 ± 1 mm / 1.890 ± 0.04 in
Pitch	F 22.23 ± 1 mm / 0.875 ± 0.04 in
Antenna to Web Edge G1	-
Antenna to Die-cut G2	1 ± 1 mm / 0.04 ± 0.04 in
Die-cut to Web Edge H	2 ± 1 mm / 0.06 ± 0.04 in
Antenna Gap I	-
Converting Spot J	-
Bad Mark K	Ø 6.0 mm / 0.236 in
Interleaves L	No



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Packing Details

	Paper-face
Product Code	2400000290
Delivery Format	Roll (single row)
Core Inner Diameter	76 mm / 2.99 in
Roll Outer Diameter	196 mm / 7.72 in
Unwinding Direction	Inlay on outside of roll
Standard Roll Size	4 500
Min. Guar. Yield/Roll	98.5%
Box Dimensions	26.0 x 26.0 x 37.0 cm / 10.24 x 10.24 x 14.57 in
Roll/Box	6
Inlays/Box	27 000
Box Gross Weight	7.54 kg / 16.63 lbs
Pallet Dimensions	120 x 80 x 126 cm / 47.2 x 31.5 x 49.6 in
Boxes/Pallet	36
Inlays/Pallet	972 000
Pallet Gross Weight	297 kg / 655 lbs

Contact:

Tageos SAS (HQ) . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com



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