

EOS-241 M750

T A G E O S

Datasheet



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Global-Compliant Versatile Solution for Retail and Logistics

The EOS-241 M750 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 M750 RAIN RFID IC, which features 96-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 M750 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-241 M750 complies will ARC specifications F, G, N, O, Q, B1, W2, W5 and W6.

Like all Tageos' RFID products, EOS-241 M750 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.

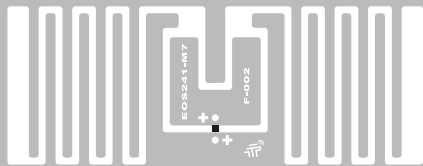
Overview

IC:	Impinj M750
EPC/User Memory:	96 / 32 bits
TID Memory:	96 bits / 48 bits 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
- Pharma & Healthcare
- Supply Chain Management



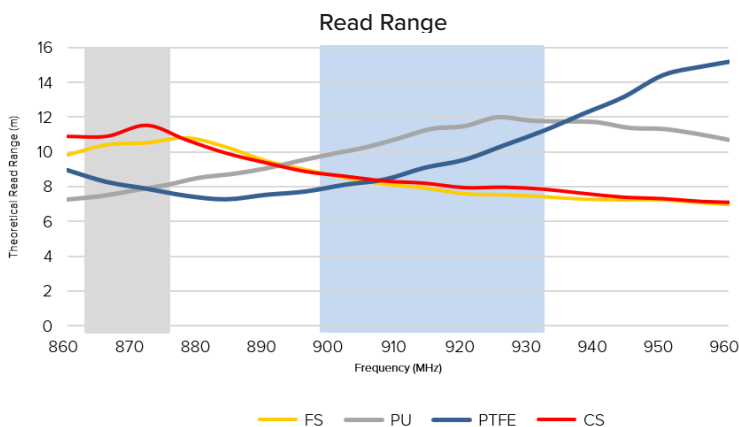


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Technical Overview

	Dry	Wet	Paper-face
Product Code	2400000221	2400000222	2400000223
Antenna Size	42 x 16 mm 1.65 x 0.63 in	42 x 16 mm 1.65 x 0.63 in	42 x 16 mm 1.65 x 0.63 in
Finish Size	-	44 x 18 mm 1.73 x 0.71 in	44 x 18 mm 1.73 x 0.71 in
Web Width	48.0 ± 1 mm 1.89 ± 0.04 in	48.0 ± 1 mm 1.89 ± 0.04 in	48.0 ± 1 mm 1.89 ± 0.04 in
Pitch	22.23 ± 0.2 mm 0.875 ± 0.01 in	22.23 ± 1 mm 0.875 ± 0.04 in	22.23 ± 1 mm 0.875 ± 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
ARC Approvals	F, G, N, O, Q, B1, W2, W5, W6	F, G, N, O, Q, B1, W2, W5, W6	F, G, N, O, Q, B1, W2, W5, W6

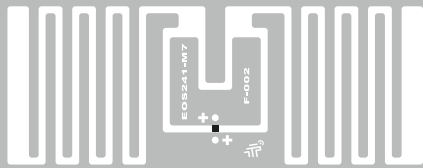


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Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:**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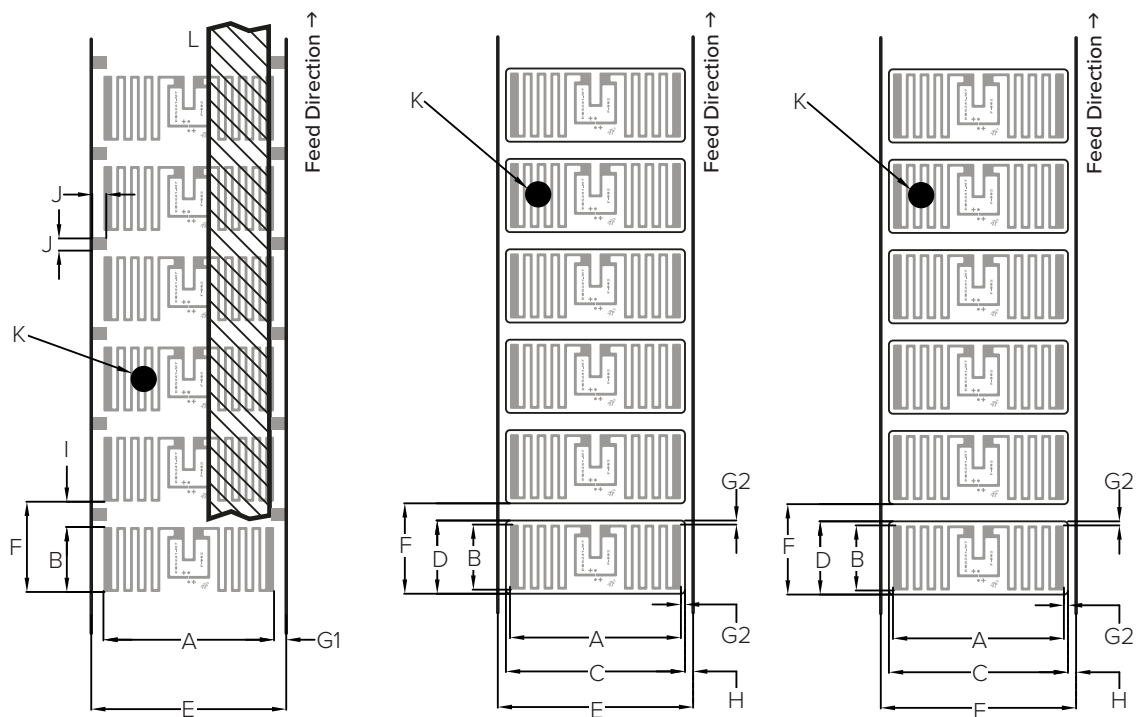


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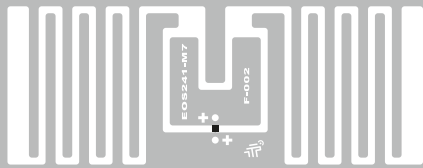
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Product Specifications

Mechanical Dimensions



	Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code	2400000221	2400000222	2400000223
Antenna Size	A x B 42 x 16 mm / 1.65 x 0.63 in	42 x 16 mm / 1.65 x 0.63 in	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	44 x 18 mm / 1.73 x 0.71 in
Web Width	E 48.0 ± 1 mm / 1.89 ± 0.04 in	48.0 ± 1 mm / 1.89 ± 0.04 in	48.0 ± 1 mm / 1.89 ± 0.04 in
Pitch	F 22.23 ± 0.2 mm / 0.875 ± 0.01 in	22.23 ± 1 mm / 0.875 ± 0.04 in	22.23 ± 1 mm / 0.875 ± 0.04 in
Antenna to Web Edge	G1 3.0 ± 1 mm / 0.118 ± 0.04 in	-	-
Antenna to Die-cut	G2 -	1.0 ± 1 mm / 0.039 ± 0.04 in	1.0 ± 1 mm / 0.039 ± 0.04 in
Die-cut to Web Edge	H -	2.0 ± 1 mm / 0.078 ± 0.04 in	2.0 ± 1 mm / 0.078 ± 0.04 in
Antenna Gap	I 6.23 mm / 0.245 in	-	-
Converting Spot	J 3.00 x 3.45 mm / 0.118 x 0.136 in	-	-
Bad Mark	K Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in
Interleaves	L Yes	No	No



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Packing Details

	Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code	2400000221	2400000222	2400000223
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	304 mm / 11.97 in	338 mm / 13.31 in	196 mm / 7.72 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	30 000	22 000	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	2	2	6
Inlays/Box	60 000	44 000	27 000
Box Gross Weight	6.70 kg / 14.77 lbs	8.88 kg / 19.58 lbs	7.52 kg / 16.58 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	2 880 000	2 112 000	972 000
Pallet Gross Weight	347 kg / 765 lbs	451 kg / 994 lbs	296 kg / 653 lbs

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