

EOS-300 M750

TAGEOS

Datasheet



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Performance and Efficiency for High-volume Applications

The EOS-300 M750 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. It is perfect for large-scale, worldwide deployments, simplifying the tag supply chain for global enterprises.

EOS-300 M750 is available in wet and paper-face format.

Equipped with 96-bit EPC memory, the inlays' Impinj M750 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.

Tageos maintains annual ARC Quality Certification for all its manufacturing sites worldwide and was among the first companies to receive certification from the Auburn University RFID Lab in 2020. The inlay fulfills ARC specifications F, I, L, O, Q, R, Y2, W5, and W6.

Tageos complies with ISO 9001:2025 Quality Management and ISO 14001:2015 Environmental Management as well as utilizing sustainable manufacturing processes and materials, such as FSC®-certified paper, whenever possible. In addition, all Tageos products meet the RoHS and REACH environmental directives.

Overview

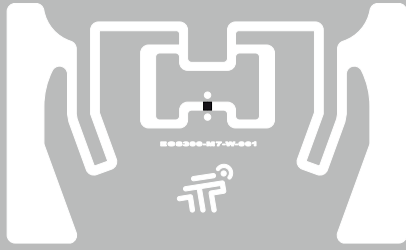
IC:	Impinj M750
EPC/User Memory:	96 bit / 32 bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz
Protocol:	EPC Class 1 Gen 2 ISO 18000-63

Application Areas

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



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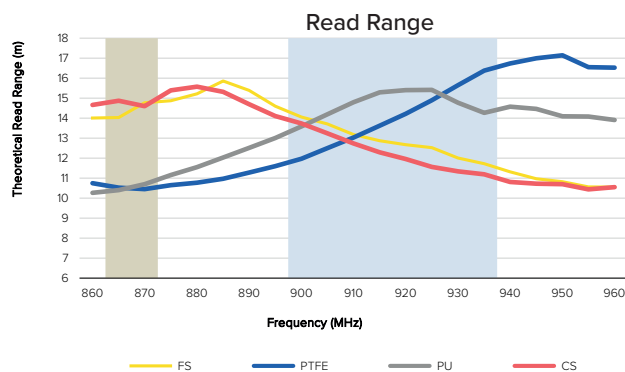


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Technical Overview

	Wet Inlay	Paper-face Inlay
Product Code	3000000172	3000000173
Antenna Size	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 2.13 x 1.34 in	54 x 34 mm 2.13 x 1.34 in
Web Width	60 ± 1 mm 2.36 ± 0.04 in	60 ± 1 mm 2.36 ± 0.04 in
Pitch	38.1 ± 1 mm 1.5 ± 0.04 in	38.1 ± 1 mm 1.5 ± 0.04 in
ARC Approvals	F, I, L, O, Q, R, Y2, W5, W6	F, I, L, O, Q, R, Y2, W5, W6
FSC® Certification	-	-
Antenna Material	Aluminium	Aluminium
Front Face	Clear PET	TT Paper
Inlay Substrate	Clear PET	Clear PET
Inlay Adhesive	Permanent	Permanent
Liner	Paper	Paper
Operating Temperature	-40°C / +85°C -40°F / +185°F @20% to 90% RH	-40°C / +85°C -40°F / +185°F @20% to 90% RH
Shelf Life	2 years @ +25°C/40%RH	2 years @ +25°C/40%RH
Final Inspection	100% tested	100% tested



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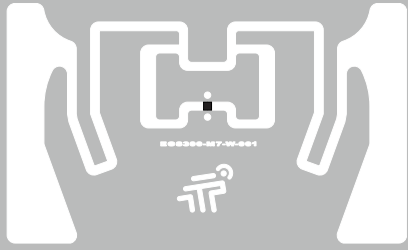
Tageos HQ . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com

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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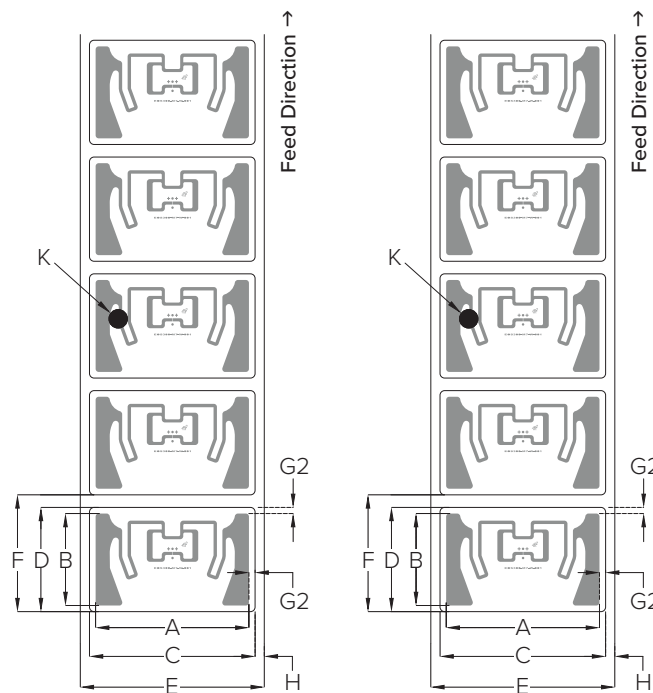


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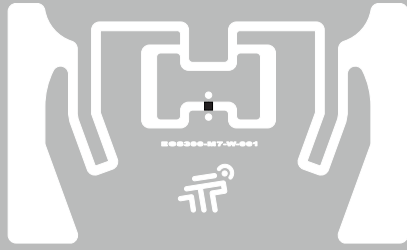
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Product Specifications

Mechanical Dimensions



		Wet Inlay	Paper-face Inlay
Product Code		3000000172	3000000173
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
Finish Size	C x D	54 x 34 mm / 2.13 x 1.34 in	54 x 34 mm / 2.13 x 1.34 in
Web Width	E	60 ± 1 mm / 2.36 ± 0.04 in	60 ± 1 mm / 2.36 ± 0.04 in
Pitch	F	38.1 ± 1 mm / 1.5 ± 0.04 in	38.1 ± 1 mm / 1.5 ± 0.04 in
Antenna to Web Edge	G1	-	-
Antenna to Die-cut	G2	2 ± 1 mm / 0.08 ± 0.04 in	2 ± 1 mm / 0.08 ± 0.04 in
Die-cut to Web Edge	H	3 ± 1 mm / 0.12 ± 0.04 in	3 ± 1 mm / 0.12 ± 0.04 in
Antenna Gap	I	-	-
Converting Spot	J	-	-
Bad Mark	K	Ø 6 mm / 0.24 in	Ø 6 mm / 0.24 in
Interleaves	L	no	no



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Packing Details

	Wet Inlay	Paper-face Inlay
Product Code	3000000172	3000000173
Delivery Format	Roll (single row)	Roll (single row)
Core Inner Diameter	76 mm / 3 in	76 mm / 3 in
Roll Outer Diameter	340 mm / 13.39 in	207 mm / 8.15 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	13 000 (-0% +1.5%)	3 000 (-0% +1.5%)
Min. Guar. Yield/Roll	99%	99%
Box Dimensions	39.5 x 39 x 17 cm / 15.5 x 15.3 x 6.7 in	26 x 26 x 37cm / 10.2 x 10.2 x 14.5 in
Roll/Box	2	5
Inlays/Box	26 000	15 000
Box Gross Weight	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 126 cm / 47.2 x 31.5 x 49.6 in
Boxes/Pallet	48	36
Inlays/Pallet	1 248 000	540 000
Pallet Gross Weight	581 kg / 1 281 lbs	360 kg / 794 lbs

Contact us:
Tageos HQ . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com

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