

EOS-300 U9 Zero™ Max

T A G E O S

Datasheet



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Truely sustainable Paper-based Inlay for Retail and Packaging

The EOS-300 U9 Zero Max inlay combines minimized ecological impact with a compact form factor for retail hang tags and logistics packaging. Based on Tageos' innovative and truely sustainable technology, it retains EOS-300 U9's excellent performance on a wide range of materials in dense tagging environments. Plastic-free and based on FSC®-certified paper, it is a unique, low-carbon footprint solution for inventory control in non-food retail, logistics and supply-chain management.

The inlay uses NXP's UCODE 9 IC, which offers high performance across all global frequency standards. Particularly well suited to inventory management applications, UCODE 9 enables long read distance and fast inventory of dense RFID tag populations. The chip also features 96-bit EPC, kill password, EPC and kill password permalock, self-adjusting impedance, and memory integrity safeguards.

Tageos maintains ARC Quality Certification for all its manufacturing sites worldwide and is one of the first companies to be certified by Auburn University's RFID Lab since 2020. EOS-300 U9 Zero Max complies with ARC specifications F, I, L, O, Q, R, Y2, W5 and W6.

Like all Tageos' RFID inlays and tags, EOS-300 U9 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:	NXP UCODE 9
EPC/User Memory:	96 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

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



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FSC® C166692

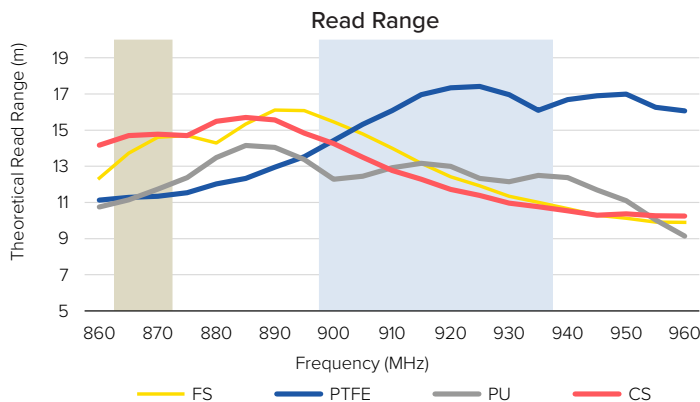


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Technical Overview

	Dry	Paper-face	Paper-face
Product Code	3000000170	3000000163	3000000205
Antenna Size	50 x 30 mm 1.97 x 1.18 in	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	60.00 ± 1 mm 2.362 ± 0.04 in	60.00 ± 1 mm 2.362 ± 0.04 in	60.00 ± 1 mm 2.362 ± 0.04 in
Pitch	38.10 ± 0.2 mm 1.500 ± 0.01 in	38.10 ± 1 mm 1.500 ± 0.04 in	38.10 ± 1 mm 1.500 ± 0.04 in
ARC Approval	F, I, L, O, Q, R, Y2, W5, W6,	F, I, L, O, Q, R, Y2, W5, W6,	F, I, L, O, Q, R, Y2, W5, W6,
FSC® Certification	-	-	-
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	Paper	Paper
Inlay Substrate	Paper 80µm	Paper 80µm	Paper 80µm
Inlay Adhesive	-	permanent	permanent
Liner	-	Paper	Paper
Operating Temperature	-20°C / +85°C -4°F / +185°F @20% to 80% RH	-20°C / +85°C -4°F / +185°F @20% to 80% RH	-20°C / +85°C -4°F / +185°F @20% to 80% RH
Shelf Life	2 years @ +25°C/40%RH	2 years @ +25°C/40%RH	2 years @ +25°C/40%RH
Final Inspection	100% tested	100% tested	100% tested



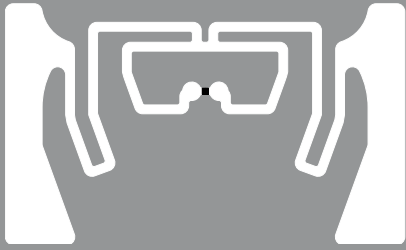
Contact:

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



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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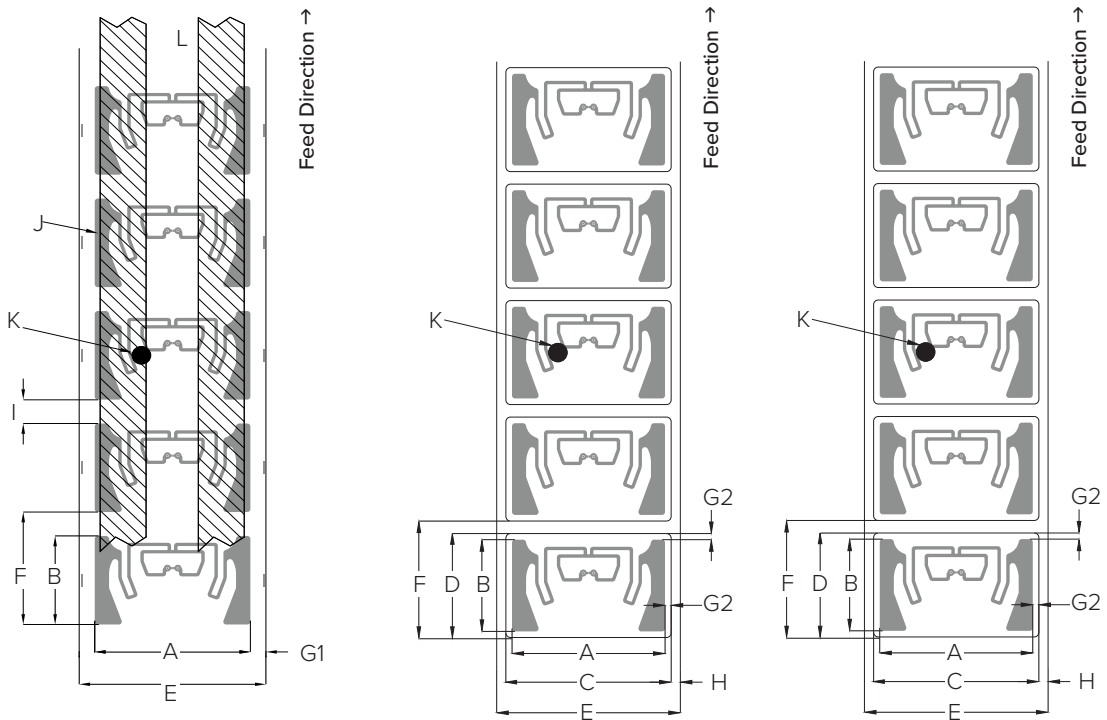


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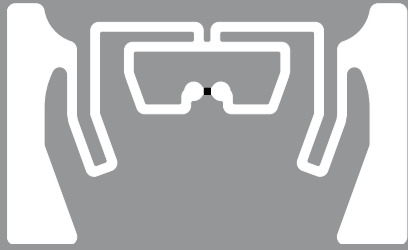
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Product Specifications

Mechanical Dimensions



	Dry	Paper-face	Paper-face
Product Code	3000000170	3000000163	3000000205
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	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 60.00 ± 1 mm / 2.362 ± 0.04 in	60.00 ± 1 mm / 2.362 ± 0.04 in	60.00 ± 1 mm / 2.362 ± 0.04 in
Pitch	F 38.10 ± 0.2 mm / 1.500 ± 0.01 in	38.10 ± 1 mm / 1.500 ± 0.04 in	38.10 ± 1 mm / 1.500 ± 0.04 in
Antenna to Web Edge	G1 5 ± 0.5 mm / 0.197 ± 0.02 in-	-	-
Antenna to Die-cut	G2 -	2.0 ± 1 mm / 0.079 ± 0.04 in	2.0 ± 1 mm / 0.079 ± 0.04 in
Die-cut to Web Edge	H -	3.0 ± 1 mm / 0.118 ± 0.04 in	3.0 ± 1 mm / 0.118 ± 0.04 in
Antenna Gap	I 8.10 mm / 0.319 in	-	-
Converting Spot	J 30.00 x 4.60 mm / 1.181 x 0.181 in, antenna section can be used		
Bad Mark	K Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in	Ø 6 mm / 0.236 in
Interleaves	L Yes	No	No



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Packing Details

	Dry	Paper-face	Paper-face
Product Code	3000000170	3000000163	3000000205
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	317 mm / 12.48 in	202 mm / 7.95 in	345 mm / 13.58 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	15 000 (-0% +1.5%)	3 000 (-0% +1.5%)	10 000 (-0% +1.5%)
Min. Guar. Yield/Roll	99%	99%	99%
Box Dimensions	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	39.5 x 39.0 x 17.0 cm / 15.56 x 15.35 x 6.69 in
Roll/Box	2	5	2
Inlays/Box	30 000	15 000	20 000
Box Gross Weight	8.86 kg / 19.54 lbs	9.41 kg / 20.74 lbs	8.1 kg / 17.86 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	120 x 80 x 151 cm / 47.2 x 31.5 x 59.4 in
Boxes/Pallet	48	36	48
Inlays/Pallet	1 440 000	540 000	960 000
Pallet Gross Weight	450 kg / 992 lbs	364 kg / 803 lbs	414 kg / 913 lbs

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