

EOS-241 U9 Zero™ Max

T A G E O S

Datasheet



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Global-Compliant Versatile Inlay for Retail and Logistics

The EOS-241 U9 Zero™ Max inlay combines superior read performance with a compact antenna size ideally suited for item-level applications in retail and logistics. Plastic-free and based on FSC®-certified paper, the Zero Max inlay is 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.

The EOS-241 U9 Zero Max inlay is available in dry and paper-face formats.

EOS-241 U9 Zero Max uses NXP's UCODE 9 IC, which offers superior global performance, and 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.

The paper-face format 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 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. EOS-241 U9 Zero Max complies with ARC specifications I and Q.

In addition, all Tageos products meet the RoHS and REACH environmental directives.

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.

Overview

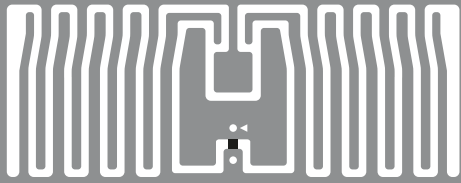
IC:	NXP UCODE 9
EPC/User Memory:	96 / - bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz (ETSI)
Protocol:	EPC Class 1 Gen 2 ISO 18000-63

Application Areas

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



The mark of
responsible forestry
FSC® C166692

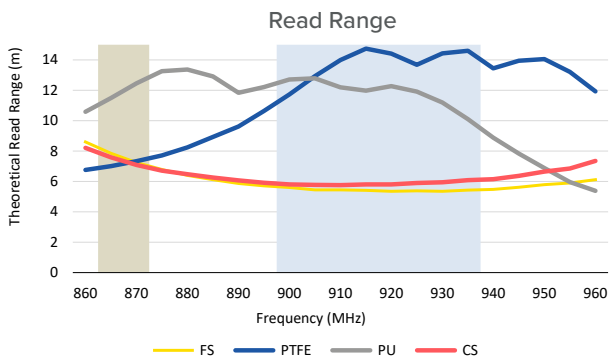


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Technical Overview

	Dry Inlay	Paper-face Inlay
Product Code	2400000216	2400000217
Antenna Size	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
Web Width	48 ± 1 mm 1.890 ± 0.04 in	48 ± 1 mm 1.890 ± 0.04 in
Pitch	22.23 ± 0.2 mm 0.875 ± 0.01 in	22.23 ± 1 mm 0.875 ± 0.04 in
ARC Approvals	I, Q	I, Q
FSC® Certification	-	FSC® Mix (C166692)
Antenna Material	Aluminium	Aluminium
Front Face	-	Paper
Inlay Substrate	Paper	Paper
Inlay Adhesive	-	Permanent
Liner	-	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
Shelf Life	2 years at +25°C @40% RH	2 years at +25°C @40% RH
Final Inspection	100% tested	100% tested

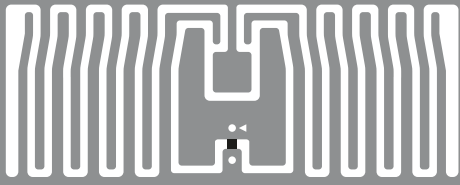


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Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:**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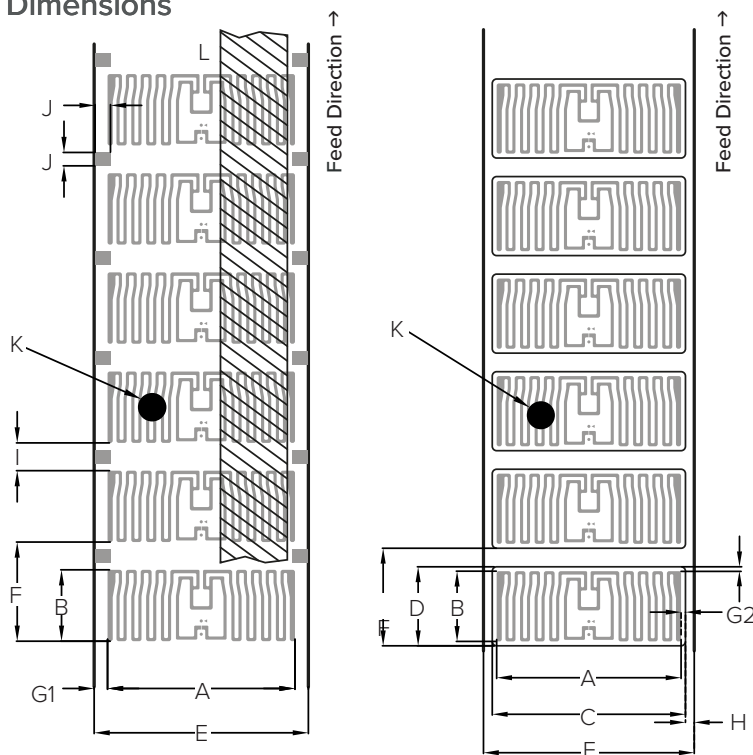


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Zero™ Max

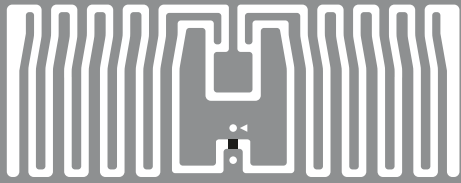
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Product Specifications

Mechanical Dimensions



	Dry Inlay	Paper-face Inlay
Product Code	2400000216	2400000217
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
Finish Size	C x D -	44 x 18 mm / 1.73 x 0.71 in
Web Width	E 48 ± 1 mm / 1.890 ± 0.04 in	48 ± 1 mm / 1.890 ± 0.04 in
Pitch	F 22.23 ± 0.2 mm / 0.875 ± 0.01 in	22.23 ± 1 mm / 0.875 ± 0.04 in
Antenna to Web Edge	G1 3 ± 1 mm / 0.12 ± 0.04 in	-
Antenna to Die-cut	G2 -	1 ± 1 mm / 0.039 ± 0.04 in
Die-cut to Web Edge	H -	2 ± 1 mm / 0.079 ± 0.04 in
Antenna Gap	I 6.2 mm / 0.244 in	-
Converting Spot	J 3.45 x 3 mm / 0.36 x 0.118 in	-
Bad Mark	K Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in
Interleaves	L yes	no



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Packing Details

	Dry Inlay	Paper-face Inlay
Product Code	2400000216	2400000217
Delivery Format	Roll (single row)	Roll (single row)
Core Inner Diameter	76 mm / 2.99 in	76 mm / 2.99 in
Roll Outer Diameter	292 mm / 11.50 in	199 mm / 7.84 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	24 100 (-0% +1.5%)	5 000 (-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 37 cm / 10.2 x 10.2 x 14.5 in
Roll/Box	2	6
Inlays/Box	48 200	30 000
Box Gross Weight	8.28 kg / 18.25 lbs	8.57 kg / 18.89 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	2 313 600	1 080 000
Pallet Gross Weight	422 kg / 930 lbs	334 kg / 736 lbs

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