



EOS-402 U9 Zero™ Max

T A G E O S

Datasheet

Optimum Performance and Sustainability for Retail Applications



T A G E O S

The EOS-402 U9 Zero Max inlay combines state-of-the-art sustainability with best-in-class global performance in a wide array of retail and supply chain management applications, including those involving boxed merchandise in distribution centers.

Plastic-free and based on FSC®-certified paper, EOS-402 U9 Zero Max offers superior bulk reading characteristics in high-density, close proximity environments and complies with numerous retail-relevant ARC specifications such as F, H, I, L, O, Q, R, Y2, W5 and W6, emphasizing its applicational versatility.

EOS-402 U9 Zero Max is available in dry and paper-face delivery formats.

The inlay uses NXP's UCODE 9 IC which is well suited for inventory management applications 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.

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.

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:	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
- Supply Chain Management



The mark of
responsible forestry
FSC® C166692

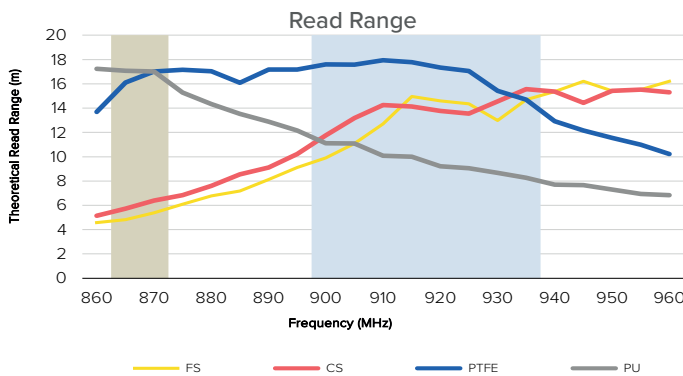


EOS-402 U9 Zero™ Max

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Technical Overview

	Dry	Paper-face
Product Code	4000000125	4000000126
Antenna Size	70 x 14.5 mm 2.76 x 0.57 in	70 x 14.5 mm 2.76 x 0.57 in
Finish Size	- -	73 x 17 mm 2.87 x 0.67 in
Web Width	76.0 ± 1 mm 2.992 ± 0.04 in	76.0 ± 1 mm 2.992 ± 0.04 in
Pitch	20.00 ± 0.2 mm 0.788 ± 0.01 in	20.00 ± 1 mm 0.788 ± 0.04 in
ARC Approvals	F, H, I, L, O, Q, R, Y2, W5, W6	F, H, I, L, O, Q, R, Y2, W5, W6,
FSC® Certification	-	-
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 @ +25°C/40%RH	2 years @ +25°C/40%RH
Final Inspection	100% tested	100% tested



Contact:

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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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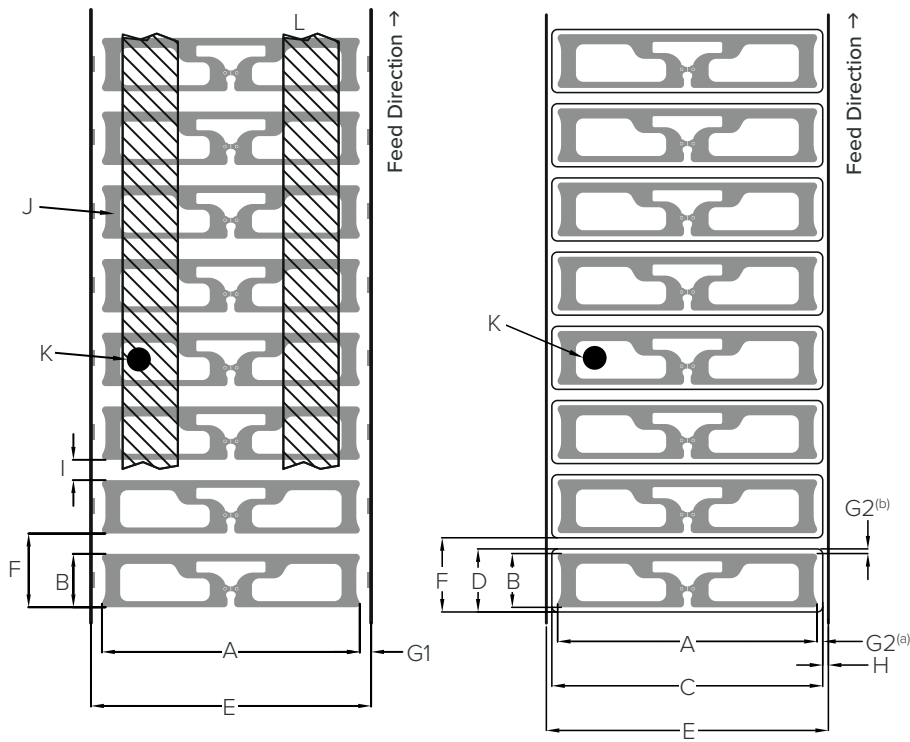


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Product Specifications

Mechanical Dimensions



	Dry	Paper-face
Product Code	4000000125	4000000126
Antenna Size	A x B 70 x 14.5 mm / 2.76 x 0.57 in	70 x 14.5 mm / 2.76 x 0.57 in
Finish Size	C x D -	73 x 17 mm / 2.87 x 0.67 in
Web Width	E 76.0 ± 1 mm / 2.992 ± 0.04 in	76.0 ± 1 mm / 2.992 ± 0.04 in
Pitch	F 20.00 ± 0.2 mm / 0.788 ± 0.01 in	20.00 ± 1 mm / 0.788 ± 0.04 in
Antenna to Web Edge	G1 3.1 ± 1 mm / 0.122 ± 0.04 in	-
Antenna to Die-cut	G2 -	1.5 ± 1 mm / 0.059 ± 0.04 in ^(a) 1.25 ± 1 mm / 0.049 ± 0.04 in ^(b)
Die-cut to Web Edge	H -	1.5 ± 1 mm / 0.059 ± 0.04 in
Antenna Gap	I 5.50 mm / 0.217 in	-
Converting Spot	J 14.50 x 4.00 mm / 0.571 x 0.157 in, antenna section can be used	
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	Paper-face
Product Code	4000000125	4000000126
Delivery Format	Roll (single row)	Roll (single row)
Core Inner Diameter	76 mm / 2.99 in	76 mm / 2.99 in
Roll Outer Diameter	309 mm / 12.17 in	206 mm / 8.11 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	30 000 (-0% +1.5%)	6 000 (-0% +1.5%)
Min. Guar. Yield/Roll	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
Roll/Box	1	4
Inlays/Box	30 000	24 000
Box Gross Weight	6.47 kg / 14.26 lbs	9.30 kg / 20.50 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	1 440 000	864 000
Pallet Gross Weight	336 kg / 741 lbs	360 kg / 794 lbs

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