



EOS-430 U9 Zero™ Max

# T A G E O S

## Datasheet

### Sustainability and Versatility For Global Retail and General Industrial Applications



T A G E O S

EOS-430 U9 Zero™ Max inlay adds minimized ecological impact due to the compact antenna design and excellent global RF performance of its base product EOS-430 U9. Plastic-free and based on FSC® certified paper, the Zero Max inlay is apt for numerous applications, including brand protection and inventory management for apparel, fashion items and homewares, supply chain, logistics, and general industrial tagging purposes.

EOS-430 U9 Zero Max is available in dry, wet, and paper-face format, fulfilling the needs of sustainability-savvy customers in the retail industry and beyond.

The inlay uses NXP's UCODE 9 IC, which offers high RF performance across all global frequency standards. Particularly well suited for 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 was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab. EOS-430 U9 complies with ARC specifications F, G, I, K, L, N, O, Q, R, Y, B1, W1, W2, W3, W4, W5 and W6.

Like all Tageos' Zero Max RFID products, EOS-430 U9 Zero Max is 100% heavy metal-free and utilizes FSC® certified paper to completely avoid the use of plastic. It is manufactured according to ISO 9001:2015 Quality Management System as well as ISO 14001:2015 Environmental Management System, and exceeds Environmental Directives RoHS and REACH.

#### 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
- Logistics
- Parts Management
- Supply Chain Management



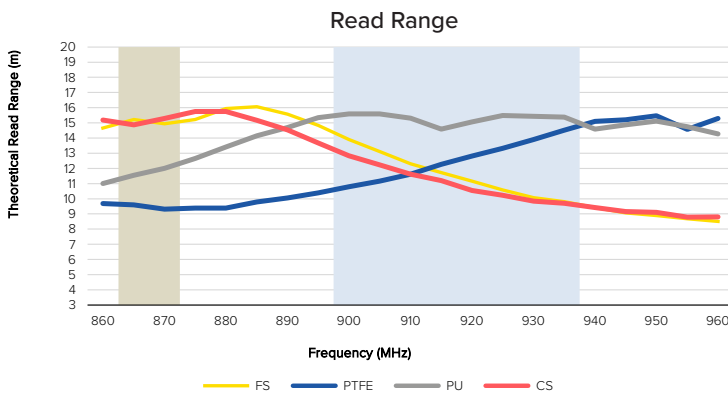


# EOS-430 U9 Zero™ Max

# TAGEOS

## Technical Overview

	Dry Inlay	Paper-face Inlay
Product Code	4300000040	4300000041
Antenna Size	70 x 8 mm 2.76 x 0.31 in	70 x 8 mm 2.76 x 0.31 in
Die-cut Size	- -	74 x 12 mm 2.91 x 0.47 in
Web Width	80 ± 1 mm 3.15 ± 0.04 in	80 ± 1 mm 3.15 ± 0.04 in
Pitch	16 ± 1 mm 0.63 ± 0.04 in	16 ± 1 mm 0.63 ± 0.04 in
Antenna Material	Aluminium	Aluminium
Front Face	-	TT Paper
Inlay Substrate	Paper	Paper
Inlay Adhesive	-	Permanent
Liner	-	Paper
Operating Temperature	-40°C / +85°C -40°F / +185°F	-40°C / +85°C -40°F / +185°F
Final Inspection	100% tested	100% tested
ARC Approvals	F, G, I, K, L, N, O, Q, R, Y, B1; W1, W2, W3, W4, W5, W6	F, G, I, K, L, N, O, Q, R, Y, B1; W1, W2, W3, W4, W5, W6



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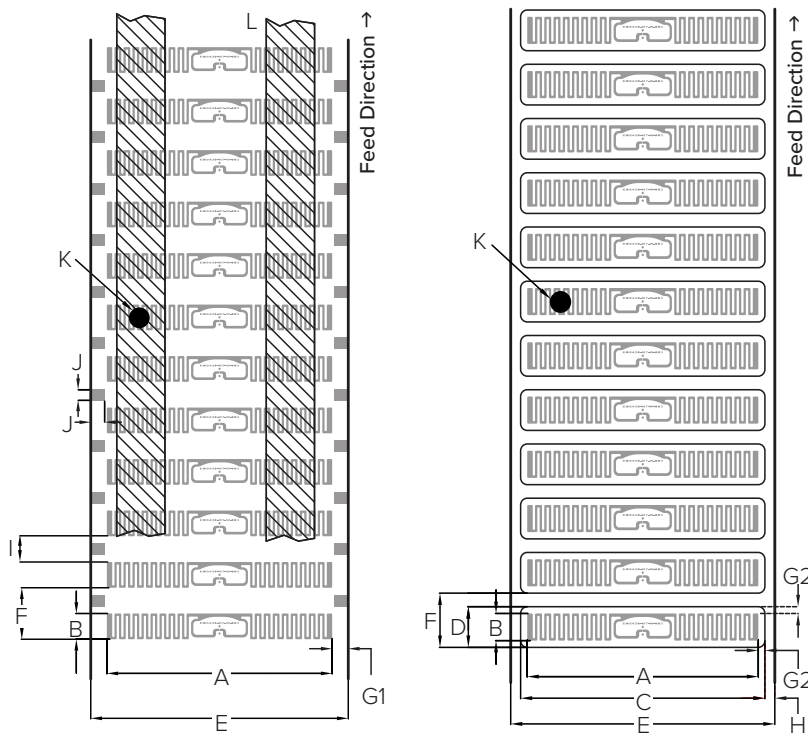
**Graphs:** All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices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

### Mechanical Dimensions



	Dry Inlay	Paper-face Inlay
Product Code	4300000040	4300000041
Antenna Size	A x B 70 x 8 mm / 2.76 x 0.31 in	70 x 8 mm / 2.76 x 0.31 in
Die-cut Size	C x D -	74 x 12 mm / 2.91 x 0.47 in
Web Width	E 80 ± 1 mm / 3.15 ± 0.04 in	80 ± 1 mm / 3.15 ± 0.04 in
Pitch	F 16 ± 1 mm / 0.63 ± 0.04 in	16 ± 1 mm / 0.63 ± 0.04 in
Antenna to Web Edge	G1 5 ± 1 mm / 0.20 ± 0.04 in	-
Antenna to Die-Cut	G2 -	2 ± 1 mm / 0.08 ± 0.04 in
Die-cut to Web Edge	H -	3 ± 1 mm / 0.12 ± 0.04 in
Antenna Gap	I 8 mm / 0.31 in	-
Converting Spot	J 4 x 3.6 mm / 0.16 x 0.14 in	-
Bad Mark	K Ø 6 mm / 0.24 in	Ø 6 mm / 0.24 in
Interleaves	L yes	no



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## Packing Details

	Dry-Inlay	Paper-face Inlay
Product Code	4300000040	4300000041
Delivery Format	Roll (single row)	Roll (single row)
Core Inner Diameter	76 mm / 2.99 in	76 mm / 2.99 in
Roll Outer Diameter	299 mm / 11.77 in	188 mm / 7.40 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	35 000	6 000
Min. Guar. Yield/Roll	98.5%	98.5%
Box Dimensions	39.5 x 39.0 x 17.0 cm / 15.5 x 15.3 x 6.7 in	26.0 x 26.0 x 37.0 cm / 10.2 x 10.2 x 14.5 in
Roll/Box	1	4
Inlays/Box	35 000	24 000
Box Gross Weight	6.33 kg / 13.96 lbs	7.13 kg / 15.72 lbs
Pallet Dimensions	120 x 80 x 151 cm / 47.2 x 31.5 x 59.4 inch	120 x 80 x 126 cm / 47.2 x 31.5 x 49.6 inch
Boxes/Pallet	48	36
Inlays/Pallet	1 680 000	864 000
Pallet Gross Weight	329 kg / 725 lbs	282 kg / 622 lbs

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