



EOS-500 U9 Zero™ Max

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Datasheet



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Global-Compliant Versatile Solution for Retail and Logistics

The EOS-500 U9 Zero™ Max inlay combines minimized ecological impact with robust performance on materials with varying dielectric loads.

Plastic-free and based on FSC® certified paper, the highly sustainable inlay features superior read-ranges globally and is apt for inventory visibility and other applications in industrial manufacturing, logistics, and supply chain management.

EOS-500 U9 Zero Max 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.

Available in dry and paper-face delivery formats, EOS-500 U9 Zero Max provides highly stable performance throughout all frequency ranges worldwide.

Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID.

Like all Tageos' RFID products, it 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 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

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





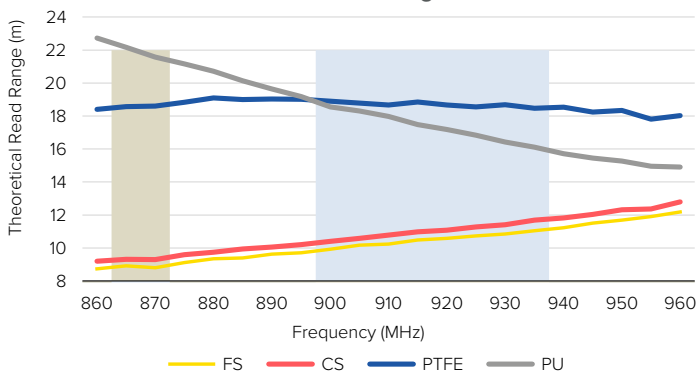
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Technical Overview

	Dry	Paper-face	Paper-face
Product Code	5000000084	5000000085	5000000105
Antenna Size	94 x 24 mm 3.70 x 0.94 in	94 x 24 mm 3.70 x 0.94 in	94 x 24 mm 3.70 x 0.94 in
Finish Size	- -	97 x 27 mm 3.82 x 1.06 in	97 x 27 mm 3.82 x 1.06 in
Web Width	105.00 ± 1 mm 4.134 ± 0.04 in	105.00 ± 1 mm 4.134 ± 0.04 in	105.00 ± 1 mm 4.134 ± 0.04 in
Pitch	30.04 ± 0.2 mm 1.183 ± 0.01 in	30.04 ± 1 mm 1.183 ± 0.04 in	30.04 ± 1 mm 1.183 ± 0.04 in
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	Paper	Paper
Inlay Substrate	Paper	Paper	Paper
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 Time	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
ARC Approvals	-	-	-

Read Range



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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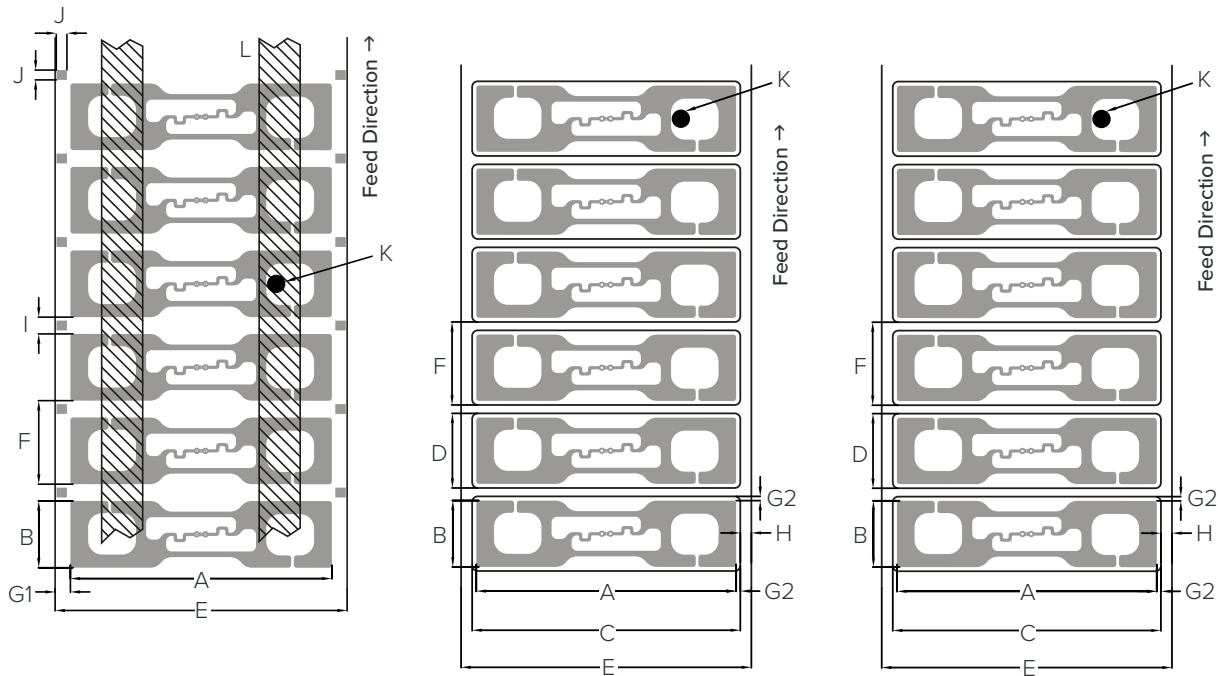


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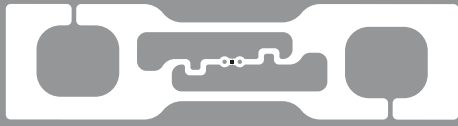
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Product Specifications

Mechanical Dimensions



	Dry	Paper-face	Paper-face
Product Code	5000000084	5000000085	5000000105
Antenna Size	A x B 94 x 24 mm / 3.70 x 0.94 in	94 x 24 mm / 3.70 x 0.94 in	94 x 24 mm / 3.70 x 0.94 in
Finish Size	C x D - / -	97 x 27 mm / 3.82 x 1.06 in	97 x 27 mm / 3.82 x 1.06 in
Web Width	E 105.00 ± 1 mm / 4.134 ± 0.04 in	105.00 ± 1 mm / 4.134 ± 0.04 in	105.00 ± 1 mm / 4.134 ± 0.04 in
Pitch	F 30.04 ± 0.2 mm / 1.183 ± 0.01 in	30.04 ± 1 mm / 1.183 ± 0.04 in	30.04 ± 1 mm / 1.183 ± 0.04 in
Antenna to Web Edge	G1 5.5 ± 1 mm / 0.217 ± 0.04 in	-	-
Antenna to Die-cut	G2 -	1.5 ± 1 mm / 0.059 ± 0.04 in	1.5 ± 1 mm / 0.059 ± 0.04 in
Die-cut to Web Edge	H -	4.0 ± 1 mm / 0.157 ± 0.04 in	4.0 ± 1 mm / 0.157 ± 0.04 in
Antenna Gap	I 6.04 mm / 0.238 in	-	-
Converting Spot	J 3.75 x 3.54 mm / 0.148 x 0.139 in	-	-
Bad Mark	K Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in
Interleaves	L Yes	No	No



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Packing Details

	Dry	Paper-face	Paper-face
Product Code	5000000084	5000000085	5000000105
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	302 mm / 11.89 in	206 mm / 8.11 in	336 mm / 13.23 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	19 000	4 000	12 000
Min. Guar. Yield/Roll	98.5%	98.5%	98.5%
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	1	3	1
Inlays/Box	19 000	12 000	12 000
Box Gross Weight	8.62 kg / 19 lbs	10.42 kg / 22.98 lbs	6.04 kg / 13.31 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	912 000	432 000	576 000
Pallet Gross Weight	439 kg / 968 lbs	400 kg / 882 lbs	315 kg / 695 lbs

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