

## EOS-241 U9 Zero™ Max

# T A G E O S

## Datasheet



## T A G E O S

### Global-Compliant Versatile Solution 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® 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.

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

Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab. EOS-241 U9 Zero Max complies with ARC specifications I, K and Q.

Like all Tageos' RFID products, EOS-241 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 materials such as FSC® certified paper whenever possible.

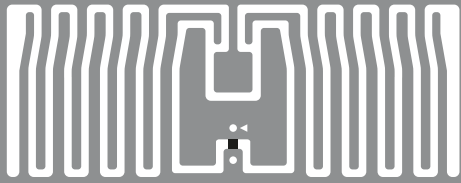
### Overview

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



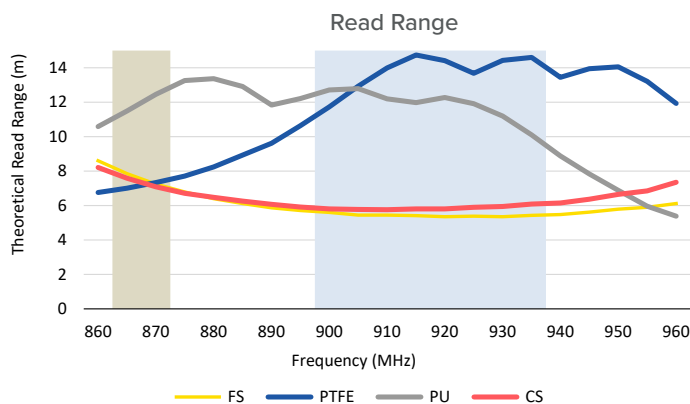


# EOS-241 U9 Zero™ Max

# T A G E O S

## 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 1.89 ± 0.04 in	48 ± 1 mm 1.89 ± 0.04 in
Pitch	22.23 ± 0.2 mm 0.87 ± 0.01 in	22.23 ± 0.2 mm 0.87 ± 0.01 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	I, K, Q	I, K, Q

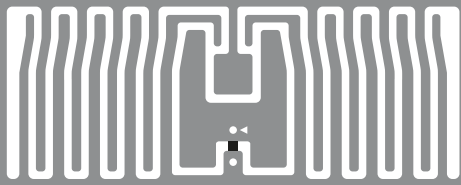


Contact us:  
Tageos HQ . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com



**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.

© 2023 Tageos All rights reserved. The pictures and illustrations found on this document are for illustration purposes only, and do not necessarily represent the exact products. Tageos is a registered trademark. All other trademarks are the property of their respective owners. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use.

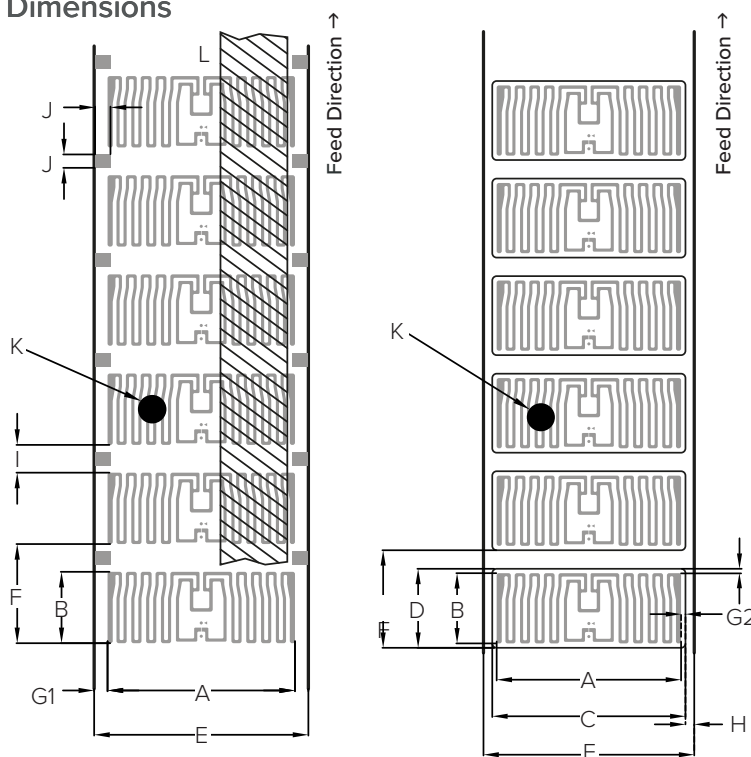


EOS-241 U9  
Zero™ Max

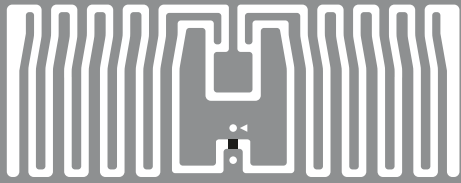
T A G E O S

## 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 / 1.89 ± 0.04 in	48 ± 1 mm / 1.89 ± 0.04 in
Pitch	F 22.23 ± 0.2 mm / 0.87 ± 0.01 in	22.23 ± 0.2 mm / 0.87 ± 0.01 in
Antenna to Web Edge	G1 3 ± 1 mm / 0.12 ± 0.04 in	-
Antenna to Die-cut	G2 -	1 ± 1 mm / 0.04 ± 0.04 in
Die-cut to Web Edge	H -	2 ± 1 mm / 0.08 ± 0.04 in
Antenna Gap	I 6.23 mm / 0.25 in	-
Converting Spot	J 3.45 x 3 mm / 0.14 x 0.12 in	-
Bad Mark	K Ø 6 mm / 0.24 in	Ø 6 mm / 0.24 in
Interleaves	L yes	no



# EOS-241 U9 Zero™ Max

# T A G E O S

## 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	5 000
Min. Guar. Yield/Roll	98.5%	98.5%
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	7.67 kg / 16.91 lbs	7.71 kg / 16.10 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	2 331 600	1 080 000
Pallet Gross Weight	393 kg / 866 lbs	303 kg / 668 lbs

Contact us:  
Tageos HQ . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com



© 2023 Tageos All rights reserved. The pictures and illustrations found on this document are for illustration purposes only, and do not necessarily represent the exact products. Tageos is a registered trademark. All other trademarks are the property of their respective owners. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use.