

EOS-205 U8

T A G E O S

Datasheet



T A G E O S

Cost-effective Global Solution for Low-memory Applications

EOS-205 U8 inlay is optimized within a small footprint to suit low-memory applications in light and medium loading situations. As such, it is an ideal low-cost solution for inventory management in non-food industries as varied as retail apparel to cosmetics, healthcare, pharmaceuticals, logistics and industrial manufacturing such as automotive and aerospace.

The inlay is ideal for large-scale, world-wide deployments, since it is a small, universal tag that can operate worldwide, simplifying the tag supply chain for global enterprises.

EOS-205 inlay is available in dry, wet and plastic-face format.

It uses NXP's UCODE 8 IC, particularly well suited for inventory management applications with its proven RF performance for any given form factor, UCODE

8 enables long read distance and fast inventory of dense RFID tag populations. The chip also provides a self-adjust feature, a product status flag for Electronic Article Surveillance (EAS) applications, pre-serialized 96-bit EPC, Brand Identifier, and the EPC Gen2v2 compliant Untraceable command.

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

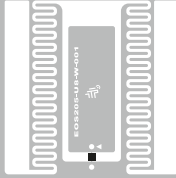
IC:	NXP UCODE 8
EPC/User Memory:	128 bit / - bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz (FCC)
Protocol:	EPC Class 1 Gen 2 ISO 18000-63

Application Areas

- Apparel
- Beauty & Cosmetics
- Inventory Visibility
- Item Level Tagging
- Parts Management
- Supply Chain Management



The mark of responsible forestry
FSC® C166692

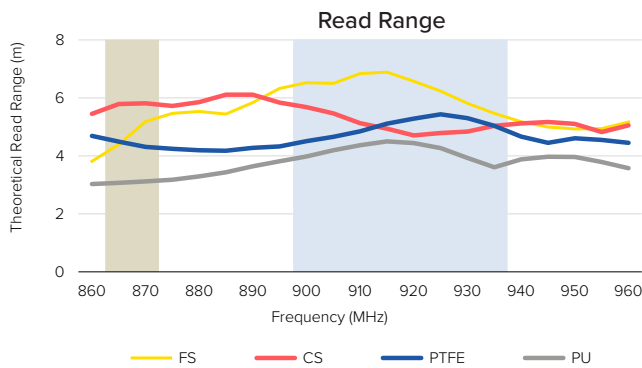


EOS-205 U8

T A G E O S

Technical Overview

	Dry Inlay	Wet Inlay	Plastic-face Inlay
Product Code	2000000072	2000000070	2000000071
Antenna Size	23 x 23 mm 0.91 x 0.91 in	23 x 23 mm 0.91 x 0.91 in	23 x 23 mm 0.91 x 0.91 in
Die-cut Size	-	26 x 26 mm 1.02 x 1.02 in	26 x 26 mm 1.02 x 1.02 in
Web Width	30 ± 1 mm 1.18 ± 0.04 in	30 ± 1 mm 1.18 ± 0.04 in	30 ± 1 mm 1.18 ± 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
ARC Approvals	-	-	-
FSC® Certification	-	-	-
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	Clear plastic	TT Plastic
Inlay Substrate	Clear PET	Clear PET	Clear PET
Inlay Adhesive	-	Permanent	Permanent
Liner	-	Paper	Paper
Operating Temperature	-40°C / +85°C -40°F / +185°F @20% to 90% RH	-40°C / +85°C -40°F / +185°F @20% to 90% RH	-40°C / +85°C -40°F / +185°F @20% to 90% RH
Shelf Life	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

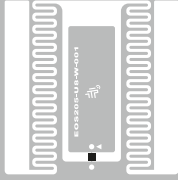


Contact us:
Tageos HQ . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com



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.

© 2025 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.

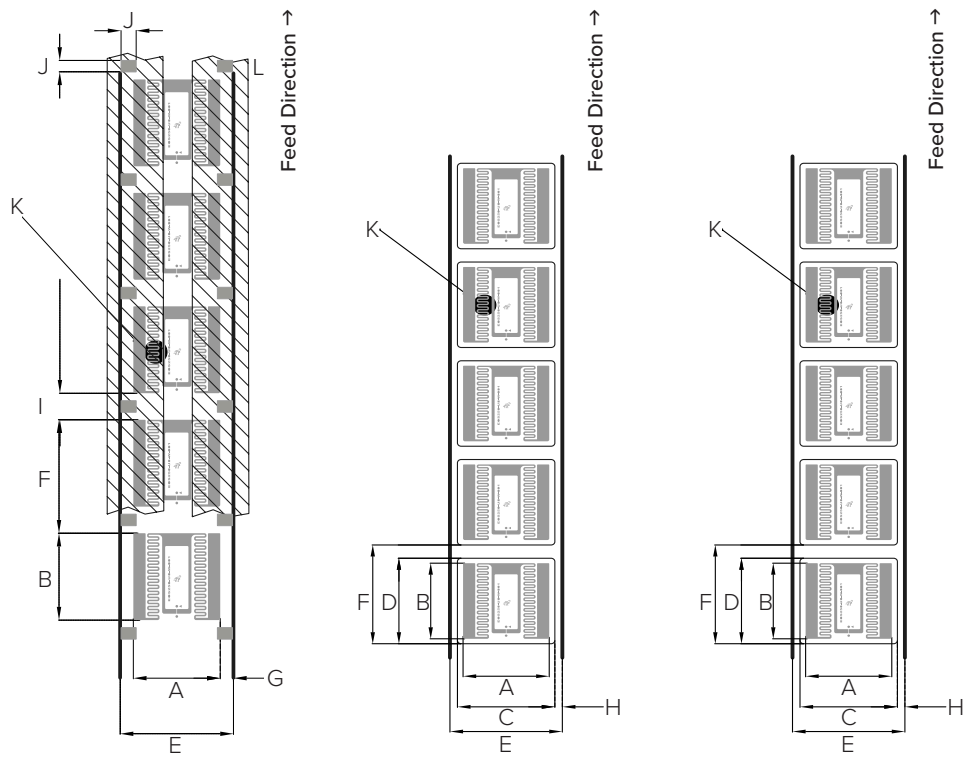


EOS-205 U8

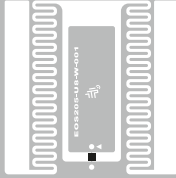
TAGEOS

Product Specifications

Mechanical Dimensions



	Dry Inlay	Wet Inlay	Plastic-face Inlay
Product Code	2000000072	2000000070	2000000071
Antenna Size	A x B 23 x 23 mm / 0.91 x 0.91 in	23 x 23 mm / 0.91 x 0.91 in	23 x 23 mm / 0.91 x 0.91 in
Die-cut Size	C x D -	26 x 26 mm / 1.02 x 1.02 in	26 x 26 mm / 1.02 x 1.02 in
Web Width	E 30 ± 1 mm / 1.18 ± 0.04 in	30 ± 1 mm / 1.18 ± 0.04 in	30 ± 1 mm / 1.18 ± 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	G 3.5 ± 1 mm / 0.14 ± 0.04 in	-	-
Die-cut to Web Edge	H -	2 mm ± 1 mm / 0.08 ± 0.04 in	2 mm ± 1 mm / 0.08 ± 0.04 in
Antenna Gap	I 7.04 mm / 0.28 in	-	-
Converting Spot	J 3.04 x 4 mm / 0.12 x 0.16 in	-	-
Bad Mark	K Ø 6 mm / 0.24 in	Ø 6 mm / 0.24 in	Ø 6 mm / 0.24 in
Interleaves	L yes	no	no



EOS-205 U8

TAGEOS

Packing Details

	Dry Inlay	Wet Inlay	Plastic-face Inlay
Product Code	2000000072	2000000070	2000000071
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	290 mm / 11.42 in	336 mm / 13.23 in	200 mm / 7.87 in
Unwinding Direction	Label on outside of roll	Label on outside of roll	Label on outside of roll
Standard Roll Size	20 000 (-0% +1.5%)	16 000 (-0% +1.5%)	3 500 (-0% +1.5%)
Min. Guar. Yield/Roll	99%	99%	99%
Box Dimensions	39.5 x 39 x 17 cm / 15.5 x 15.3 x 6.7 in	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	4	4	10
Inlays/Box	80 000	64 000	35 000
Box Gross Weight	9.45 kg / 20.83 lbs	10.84 kg / 23.90 lbs	8.24 kg / 18.17 lbs
Pallet Dimensions	120 x 80 x 151 cm / 47.2 x 31.5 x 59.4 in	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	48	36
Inlays/Pallet	3 840 000	3 072 000	1 260 000
Pallet Gross Weight	479 kg / 1056 lbs	545 kg / 1 202 lbs	322 kg / 710 lbs

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

 **RoHS**
compliant



© 2025 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.