

EOS-241 U9

T A G E O S

Datasheet



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Cost-effective Inlay for Item-level Applications

The EOS-241 U9 inlay is optimized with an antenna size ideally suited for use with item-level retail and logistics packages. It is ideal for inventory management in a wide range of non-food industries including retail apparel, supply chain, logistics and pharmaceutical/healthcare.

The inlay is available in dry, wet and paper-face formats.

It uses NXP's UCODE 9 IC, which offers superior ETSI 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.

Tageos maintains annual ARC Quality Certification for all manufacturing sites worldwide and was among the first companies to receive certification from the Auburn University RFID Lab in 2020. EOS-241 U9 complies with ARC specification I.

In addition, all Tageos products meet the RoHS and REACH environmental directives.

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.

Overview

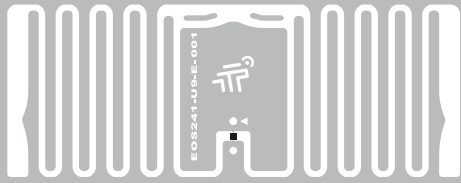
IC:	NXP UCODE 9
EPC/User Memory:	96 bit / - bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz (ETSI)
Protocol:	EPC Class 1 Gen 2 - ISO 18000-63

Application Areas

- Apparel
- Inventory Visibility
- Item Level Tagging
- Pharma & Healthcare
- Supply Chain Management



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FSC® C166692



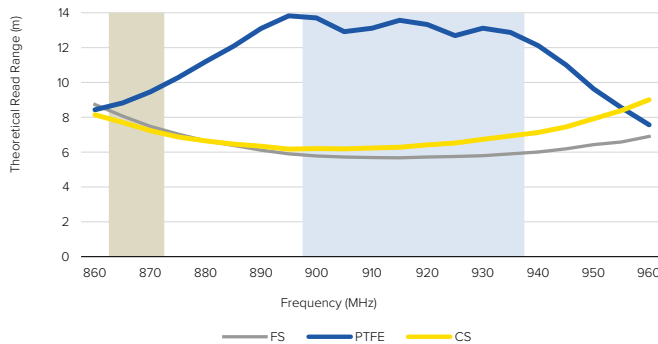
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Technical Overview

	Dry inlay	Wet Inlay	Paper-face Inlay
Product Code	2400000185	2400000186	2400000187
Antenna Size	42 x 16 mm 1.65 x 0.63 in	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	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	48 ± 1 mm 1.89 ± 0.04 in
Pitch	22.23 ± 0.2 mm 0.88 ± 0.01 in	22.23 ± 1 mm 0.88 ± 0.04 in	22.23 ± 1 mm 0.88 ± 0.04 in
ARC Approvals	I	I	I
FSC® Certification	-	-	-
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	PET clear	Paper TT
Inlay Substrate	PET clear	PET clear	PET clear
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

Read Range

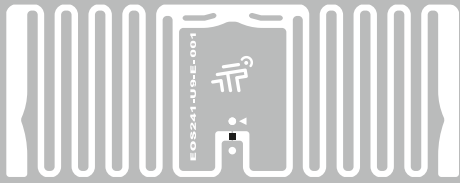


Contact us:
Tageos HQ . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com



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.

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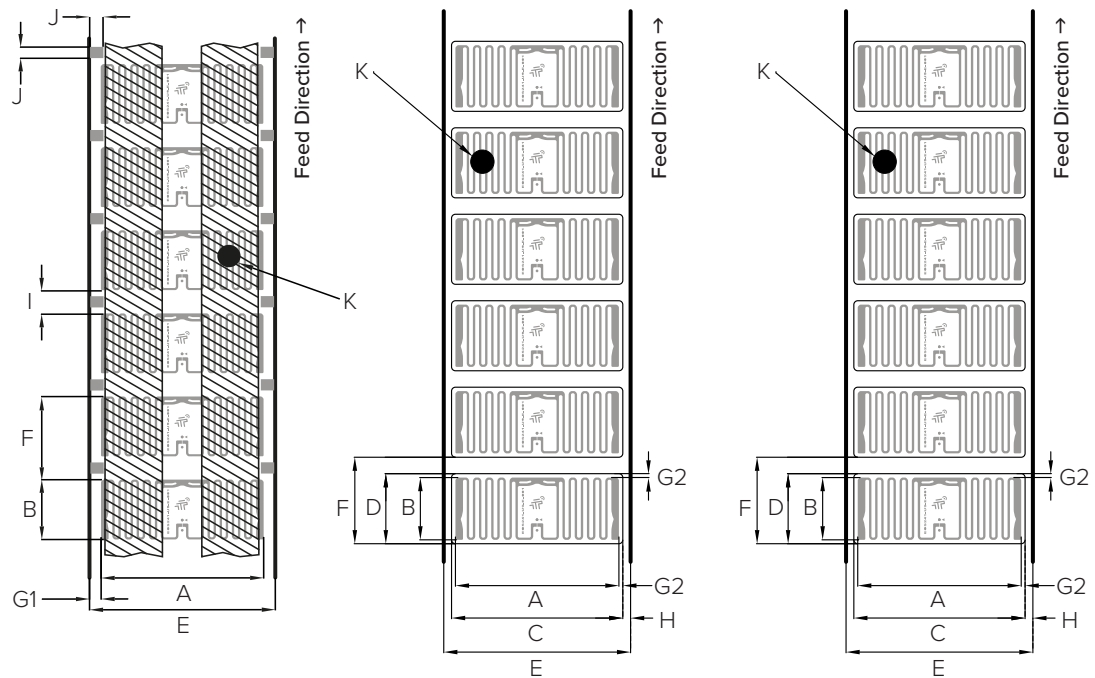


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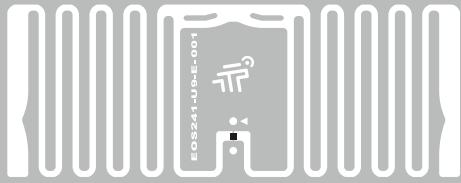
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Product Specifications

Mechanical Dimensions



	Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code	2400000185	2400000186	2400000187
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	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	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	48 ± 1 mm / 1.89 ± 0.04 in
Pitch	F 22.23 ± 0.2 mm / 0.88 ± 0.01 in	22.23 ± 1 mm / 0.88 ± 0.04 in	22.23 ± 1 mm / 0.88 ± 0.04 in
Antenna to Web Edge	G1 3 ± 1 mm / 0.12 ± 0.4 in	-	-
Antenna to Die-cut	G2 -	1 ± 1 mm / 0.04 ± 0.4 in	1 ± 1 mm / 0.04 ± 0.4 in
Die-cut to Web Edge	H -	2 ± 1 mm / 0.08 ± 0.4 in	2 ± 1 mm / 0.08 ± 0.4 in
Antenna Gap	I 6.23 mm / 0.25 in	-	-
Converting Spot	J 3.5 x 3 mm / 0.14 x 0.12 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



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Packing Details

	Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code	2400000185	2400000186	2400000187
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	279 mm / 10.98	338 mm / 13.31 in	196 mm / 7.72 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	25 000 (-0% +1.5%)	22 000 (-0% +1.5%)	4 500 (-0% +1.5%)
Min. Guar. Yield/Roll	99%	99%	99%
Box Dimensions	39.5 x 39 x 17 cm / 15.56 x 15.35 x 6.69 in	39.5 x 39 x 17 cm / 15.56 x 15.35 x 6.69 in	26 x 26 x 37 cm / 10.24 x 10.24 x 14.57 in
Roll/Box	2	2	6
Inlays/Box	50 000	44 000	27 000
Box Gross Weight	5.70 kg / 12.57 lbs	8.88 kg / 19.58 lbs	7.52 kg / 16.58 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	2 400 000	2 112 000	972 000
Pallet Gross Weight	299 kg / 659 lbs	451 kg / 994 lbs	296 kg / 653 lbs

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

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