

EOS-261 U9

T A G E O S

Datasheet

Global-Compliant Versatile Solution for Retail and Logistics

The EOS-261 U9 inlay combines stable, high performance on various materials with a remarkably small footprint. This qualifies it as the market's smallest inlay to meet ARC specifications W1 to W6 (as of November 2022).

Hence, EOS-261 U9 is the solution of choice for multiple item-level applications in retail (particularly apparel, accessories, consumer electronics, home goods, and toys), logistics, automotive and industrial manufacturing.

EOS-261 U9 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.

It is available in dry, wet, and paper-face delivery formats.

Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab. EOS-261 U9 complies with ARC specifications F, G, N, O, Q, R, Y, Y2 and W1 to W6.

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.



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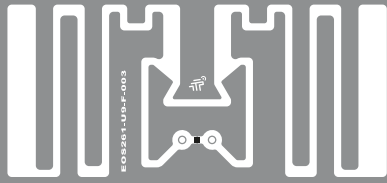
Overview

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 18000-6c

Application Areas

- Apparel
- Consumer Electronics
- Inventory Visibility
- Item Level Tagging
- Supply Chain Management



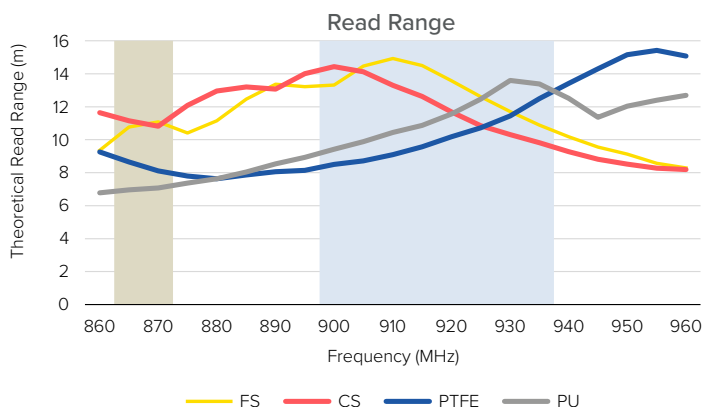


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Technical Overview

	Dry	Wet	Paper-face
Product Code	2600000043	2600000044	2600000045
Antenna Size	44 x 20 mm 1.73 x 0.79 in	44 x 20 mm 1.73 x 0.79 in	44 x 20 mm 1.73 x 0.79 in
Finish Size	-	47 x 23 mm 1.85 x 0.91 in	47 x 23 mm 1.85 x 0.91 in
Web Width	50.0 ± 1 mm 1.969 ± 0.04 in	50.0 ± 1 mm 1.969 ± 0.04 in	50.0 ± 1 mm 1.969 ± 0.04 in
Pitch	26.04 ± 0.2 mm 1.025 ± 0.01 in	26.04 ± 1 mm 1.025 ± 0.04 in	26.04 ± 1 mm 1.025 ± 0.04 in
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	-40°C / +85°C -40°F / +185°F	-40°C / +85°C -40°F / +185°F
Final Inspection	100% tested	100% tested	100% tested
ARC Approvals	F, G, N, O, Q, R, Y, Y2, W1, W2, W3, W4, W5, W6	F, G, N, O, Q, R, Y, Y2, W1, W2, W3, W4, W5, W6	F, G, N, O, Q, R, Y, Y2, W1, W2, W3, W4, W5, W6



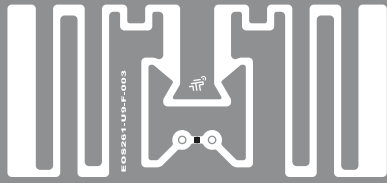
Contact:

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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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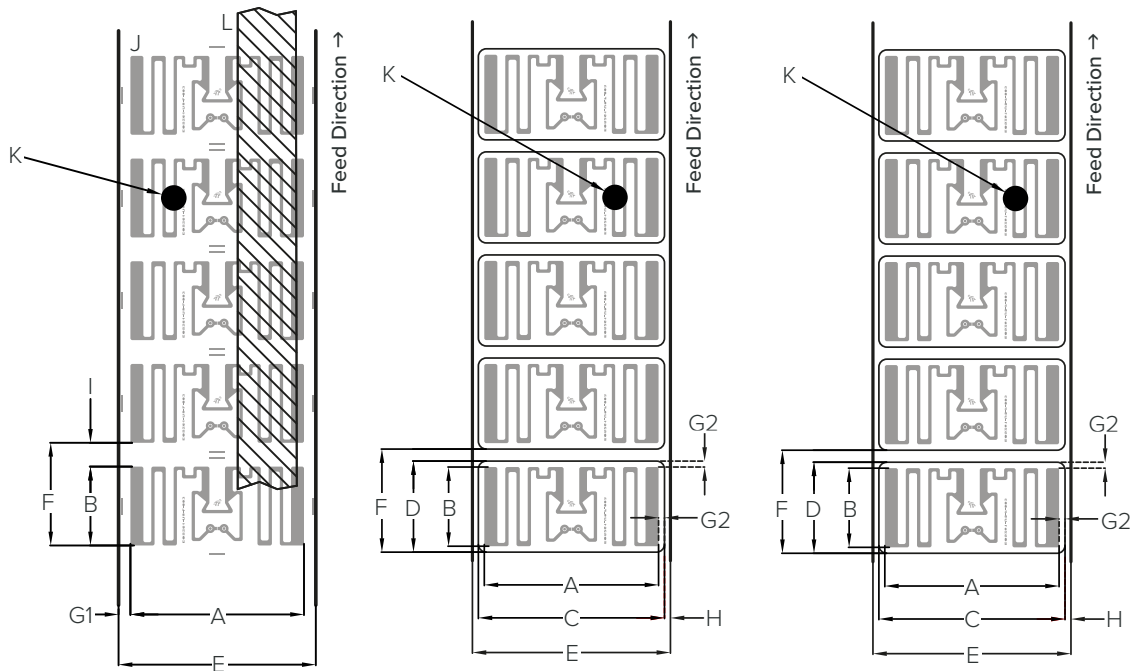


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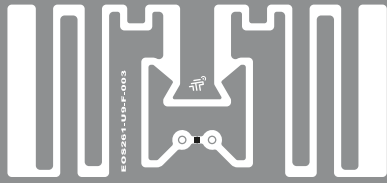
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Product Specifications

Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	2600000043	2600000044	2600000045
Antenna Size	A x B 44 x 20 mm / 1.73 x 0.79 in	44 x 20 mm / 1.73 x 0.79 in	44 x 20 mm / 1.73 x 0.79 in
Finish Size	C x D -	47 x 23 mm / 1.85 x 0.91 in	47 x 23 mm / 1.85 x 0.91 in
Web Width	E 50.0 ± 1 mm / 1.969 ± 0.04 in	50.0 ± 1 mm / 1.969 ± 0.04 in	50.0 ± 1 mm / 1.969 ± 0.04 in
Pitch	F 26.04 ± 0.2 mm / 1.025 ± 0.01 in	26.04 ± 1 mm / 1.025 ± 0.04 in	26.04 ± 1 mm / 1.025 ± 0.04 in
Antenna to Web Edge	G1 3.0 ± 1 mm / 0.118 ± 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 -	1.5 ± 1 mm / 0.059 ± 0.04 in	1.5 ± 1 mm / 0.059 ± 0.04 in
Antenna Gap	I 6.04 mm / 0.238 in	-	-
Converting Spot	J 3.30 x 20 mm / 0.13 x 0.79 in, antenna section can be used		
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	Wet	Paper-face
Product Code	2600000043	2600000044	2600000045
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	337 mm / 13.27 in	340 mm / 13.39 in	199 mm / 7.83 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	32 000	19 000	4 000
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	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
Roll/Box	2	2	6
Inlays/Box	64 000	38 000	24 000
Box Gross Weight	9.48 kg / 20.90 lbs	9.94 kg / 21.91 lbs	8.78 kg / 19.36 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	3 072 000	1 824 000	864 000
Pallet Gross Weight	480 kg / 1058 lbs	502 kg / 1107 lbs	341 kg / 752 lbs

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