

EOS-261 U9xe

T A G E O S

## Datasheet

### Versatile and High-Memory Solution for Retail and Logistics

The EOS-261 U9XE inlay combines high performance and versatility with a remarkably small footprint and extended EPC memory.

Its a prime solution for demanding item-level applications in retail (apparel and other key sectors), logistics, automotive and industrial manufacturing. In these environments, the inlay's high-memory IC allows important item attributes to be stored on-chip.

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

EOS-261 U9XE uses NXP's UCODE 9XE IC. Designed as a drop-in replacement for the high-performance UCODE 9, the new IC offers the same feature set and RF performance as the UCODE 9, but with 128 bits of Electronic Product Code (EPC) memory to support smarter than before IoT use cases.



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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. EOS-261 U9xe complies with ARC specifications F, O, Q, R, Y2, W5, and W6.

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

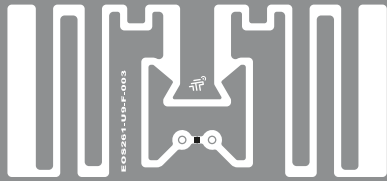
IC:	NXP UCODE 9xe
EPC/User Memory:	128 bit / - bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz
Protocol:	EPC Class 1 Gen 2 - ISO 18000-63

#### Application Areas

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



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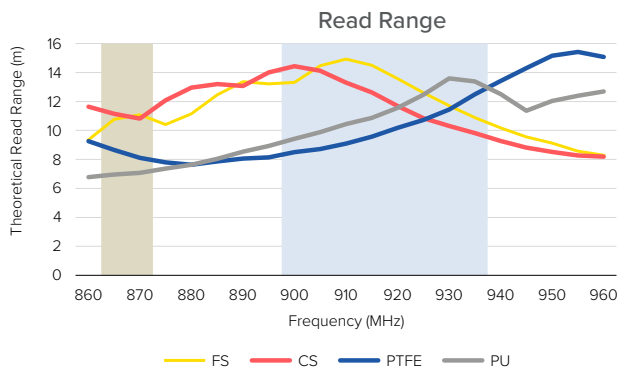


# EOS-261 U9xe

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## Technical Overview

	Dry	Wet	Paper-face
Product Code	2600000053	2600000054	2600000055
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
ARC Approval	F, O, Q, R, Y2, W5, W6	F, O, Q, R, Y2, W5, W6	F, O, Q, R, Y2, W5, W6,
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



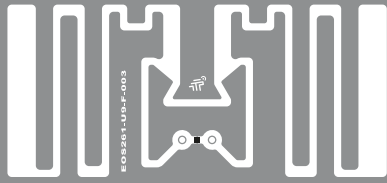
### Contact:

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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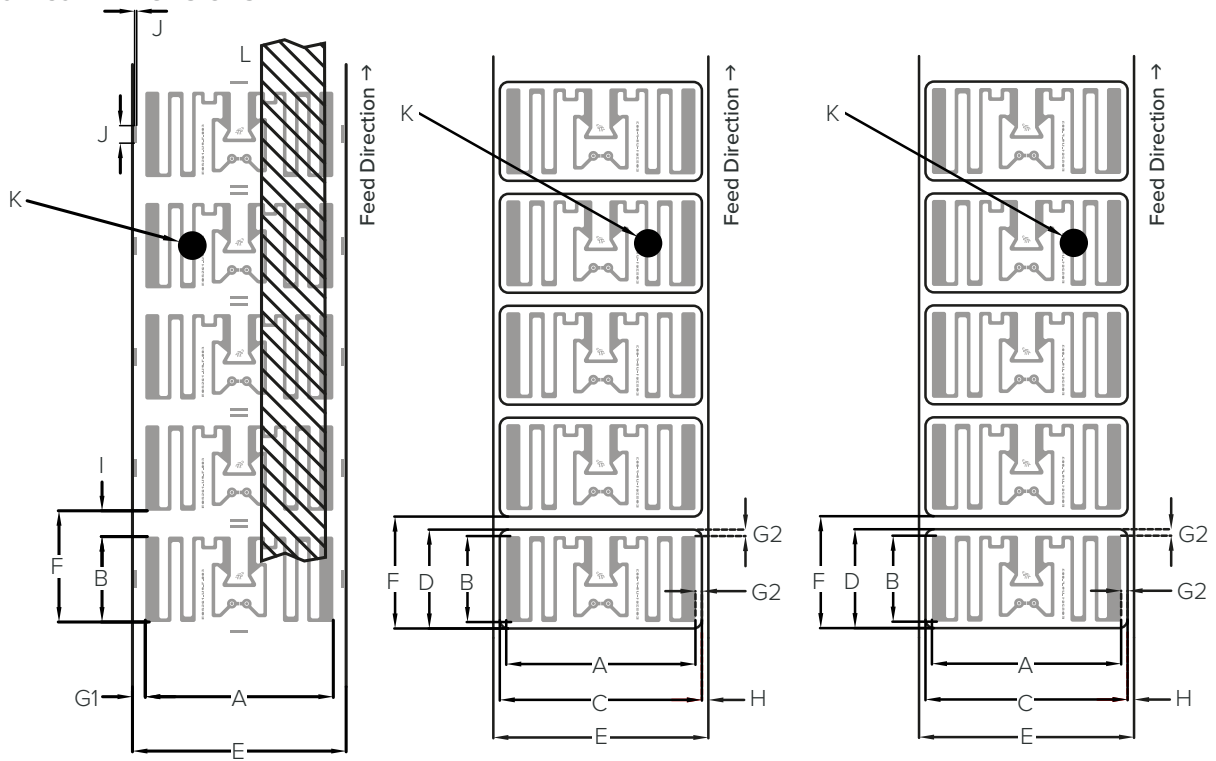


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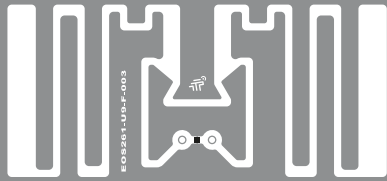
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## Product Specifications

### Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	260000053	260000054	260000055
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 0.50 x 4.10 mm / 0.020 x 0.161 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	Wet	Paper-face
Product Code	2600000053	2600000054	2600000055
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 / 7.84 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	32 000 (-0% +1.5%)	19 000 (-0% +1.5%)	4 000 (-0% +1.5%)
Min. Guar. Yield/Roll	99%	99%	99%
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	38.5 x 38.5 x 37.0 cm / 15.16 x 15.16 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 / 20.72 lbs	8.75 kg / 19.29 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 126 cm / 47.2 x 31.5 x 49.6 in
Boxes/Pallet	48	36	18
Inlays/Pallet	3 072 000	1 824 000	864 000
Pallet Gross Weight	480 kg / 1 058 lbs	502 kg / 1 107 lbs	340 kg / 750 lbs

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