

EOS-240 U9

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## Datasheet

### Cost-effective Global Solution for Dense Tag Populations



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The EOS-240 U9 inlay is optimized within a small footprint to offer superior dense population performance across global markets with the latest UCODE 9 technology from NXP. It is an ideal low-cost solution for inventory management in non-food industries as varied as retail apparel to cosmetics, accessories/sunglasses, jewelry and also pharmaceuticals.

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-240 U9 uses NXP's UCODE 9 IC, which offers high performance across all global frequency standards. Particularly well suited for inventory management applications with its proven RF performance for any given form factor, UCODE 9

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 inlay is available in dry, wet 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.

Like all Tageos' RFID products, it complies with ISO 9001.2015 Quality Management System, as well as Environmental Directives RoHS and REACH, utilizing sustainable materials such as FSC® certified paper whenever possible.

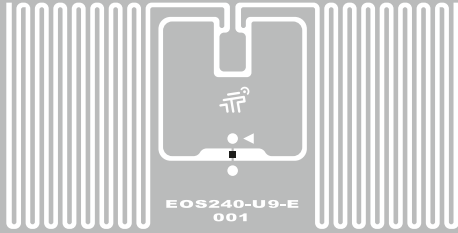
#### Overview

IC:	NXP UCODE 9
EPC/User Memory:	96 bit / - 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
- Accessories & Jewelry
- Beauty & Cosmetics
- Inventory Visibility
- Item Level Tagging
- Pharma & Healthcare





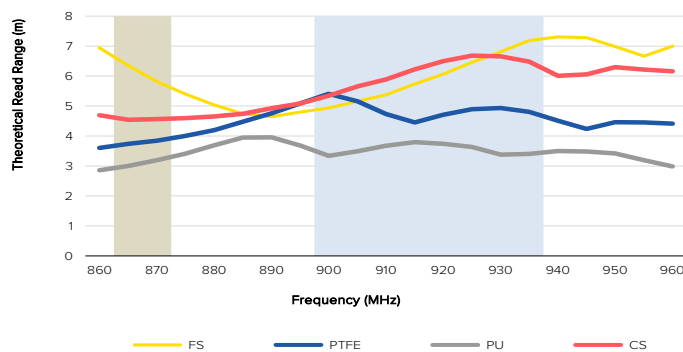
# EOS-240 U9

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## Technical Overview

	Dry Inlay	Wet Inlay	Paper-face inlay
Product Code	2000000077	2000000078	2000000079
Antenna Size	30 x 15 mm 1.18 x 0.59 in	30 x 15 mm 1.18 x 0.59 in	30 x 15 mm 1.18 x 0.59 in
Finish Size	-	33 x 18 mm 1.30 x 0.71 in	33 x 18 mm 1.30 x 0.71 in
Web Width	40 ± 1 mm 1.57 ± 0.04 in	40 ± 1 mm 1.57 ± 0.04 in	40 ± 1 mm 1.57 ± 0.04 in
Pitch	23.53 ± 0.2 mm 0.93 ± 0.001 in	23.53 ± 0.2 mm 0.93 ± 0.001 in	23.53 ± 0.2 mm 0.93 ± 0.001 in
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	Clear PET	TT Paper
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	-40°C / +85°C -40°F / +185°F	-40°C / +85°C -40°F / +185°F
Final Inspection	100% tested	100% tested	100% tested
Market Approvals	-	-	-

Read Range

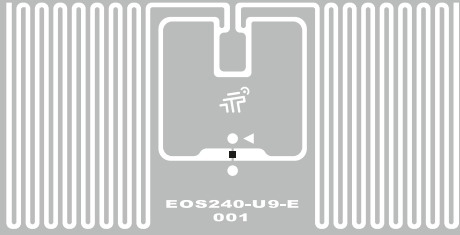


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**Graphs:** All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** 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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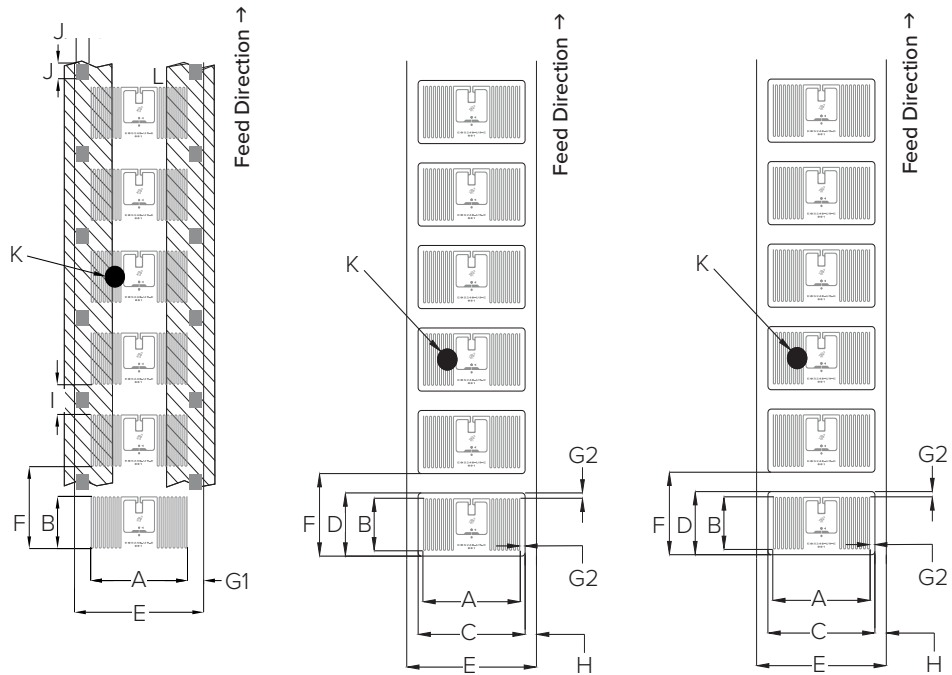


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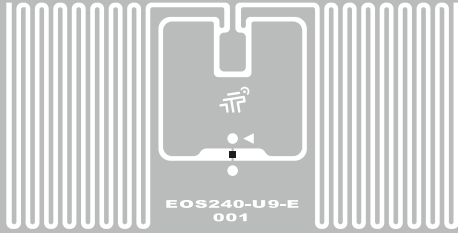
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## Product Specifications

### Mechanical Dimensions



	Dry Inlay	Wet Inlay	Paper-face inlay
Product Code	2000000077	2000000078	2000000079
Antenna Size	A x B 30 x 15 mm / 1.18 x 0.59 in	30 x 15 mm / 1.18 x 0.59 in	30 x 15 mm / 1.18 x 0.59 in
Finish Size	C x D -	33 x 18 mm / 1.30 x 0.71 in	33 x 18 mm / 1.30 x 0.71 in
Web Width	E 40 ± 1 mm / 1.57 ± 0.04 in	40 ± 1 mm / 1.57 ± 0.04 in	40 ± 1 mm / 1.57 ± 0.04 in
Pitch	F 23.53 ± 0.2 mm / 0.93 ± 0.001 in	23.53 ± 0.2 mm / 0.93 ± 0.001 in	23.53 ± 0.2 mm / 0.93 ± 0.001 in
Antenna to Web Edge	G1 5 ± 1 mm / 0.20 ± 0.04 in	-	-
Antenna to Die-cut	G2 -	1.5 ± 1 mm / 0.06 ± 0.04 mm	1.5 ± 1 mm / 0.06 ± 0.04 mm
Die-cut to Web Edge	H -	3.5 ± 1 mm / 0.14 in ± 0.04 in	3.5 ± 1 mm / 0.14 in ± 0.04 in
Antenna Gap	I 8.53 mm / 0.34 in	-	-
Converting Spot	J 4.5 x 4 mm / 0.18 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



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## Packing Details

	Dry Inlay	Wet Inlay	Paper-face inlay
Product Code	2000000077	2000000078	2000000079
Delivery Format	Roll (single row)	Roll (single row)	Roll (single row)
Core Inner Diameter	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Roll Outer Diameter	318 mm / 12.52 in	340 mm / 13.39 in	201 mm / 7.91 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	24 100	21 000	4 500
Min. Guar. Yield/Roll	98.5%	98.5%	98.5%
Box Dimensions	39.5 x 39 x 17 cm	39.5 x 39 x 17 cm	26 x 26 x 37 cm
	15.56 x 15.35 x 6.69 in	15.56 x 15.35 x 6.69 in	10.24 x 10.24 x 14.57 in
Roll/Box	3	3	7
Inlays/Box	72 300	63 000	31 500
Box Gross Weight	7.2 kg / 15.87 lbs	10.2 kg / 22.49 lbs	7.0 kg / 15.43 lbs
Pallet Dimensions	120 x 80 x 151 cm	120 x 80 x 151 cm	120 x 80 x 126 cm
	47.2 x 31.5 x 59.4 in	47.2 x 31.5 x 59.4 in	47.2 x 31.5 x 49.6 in
Boxes/Pallet	48	48	36
Inlays/Pallet	3 470 400	3 024 000	1 134 000
Pallet Gross Weight	371 kg / 818 lbs	512 kg / 1129 lbs	277 kg / 611 lbs

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