

EOS-300 U9

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Datasheet

Cost-effective Global Solution for High-volume Applications



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The EOS-300 U9 inlay is optimized within a compact form factor that is ideal for retail hang tags and logistics packaging. It has excellent orientation sensitivity and performs extremely well on a wide range of materials in dense tagging environments. As such, it is an ideal low-cost solution for inventory control in non-food industries such as retail, logistics and supply chain management.

The inlay is perfect 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-300 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 format. Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab. EOS-300 U9 complies with ARC specifications F, G, I, J, K, L, N, O, Q, R, Y, B1, W1, W2, W3, W4, W5 and W6.

Like all Tageos' RFID products, EOS-300 U9 complies with ISO 9001:2015 Quality Management System and ISO 14001:20215 Environmental Management System as well as Environmental Directives RoHS and REACH, utilizing sustainable materials such as FSC® certified paper whenever possible.

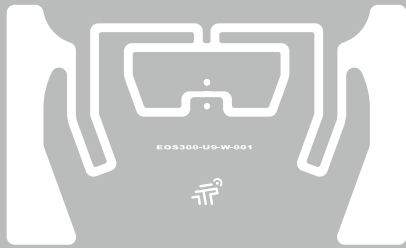
Overview

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
Protocol:	EPC Class 1 Gen 2 - ISO 18000-6c

Application Areas

- Apparel
- Inventory Visibility
- Item Level Tagging
- Parts Management
- Supply Chain Management



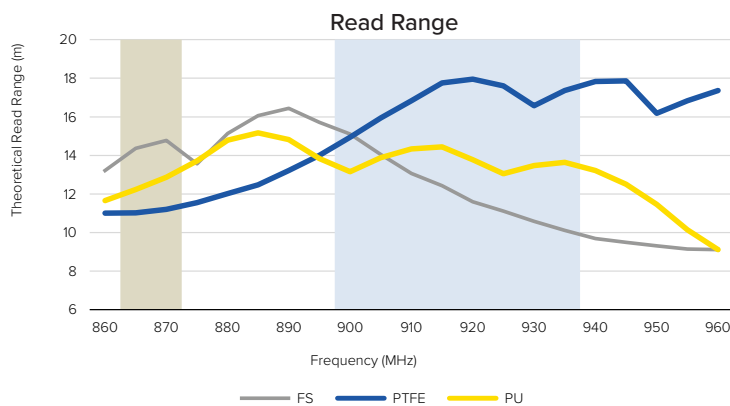


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Technical Overview

	Dry	Wet	Paper-face
Product Code	3000000171	3000000157	3000000150
Antenna Size	50 x 30 mm 1.97 x 1.18 in	50 x 30 mm 1.97 x 1.18 in	50 x 30 mm 1.97 x 1.18 in
Die-cut Size	-	54 x 34 mm 2.13 x 1.34 in	54 x 34 mm 2.13 x 1.34 in
Web Width	60 ± 1 mm 2.362 ± 0.04 in	60 ± 1 mm 2.362 ± 0.04 in	60 ± 1 mm 2.362 ± 0.04 in
Pitch	38.10 ± 0.5 mm 1.500 ± 0.02 in	38.10 ± 1 mm 1.500 ± 0.04 in	38.10 ± 1 mm 1.500 ± 0.04 in
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	Clear plastic	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	F, G, I, J, K, L, N, O, Q, R, Y, B1; W1, W2, W3, W4, W5, W6	F, G, I, J, K, L, N, O, Q, R, Y, B1; W1, W2, W3, W4, W5, W6	F, G, I, J, K, L, N, O, Q, R, Y, B1; W1, W2, W3, W4, W5, W6

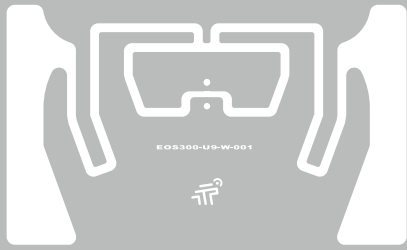


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Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:**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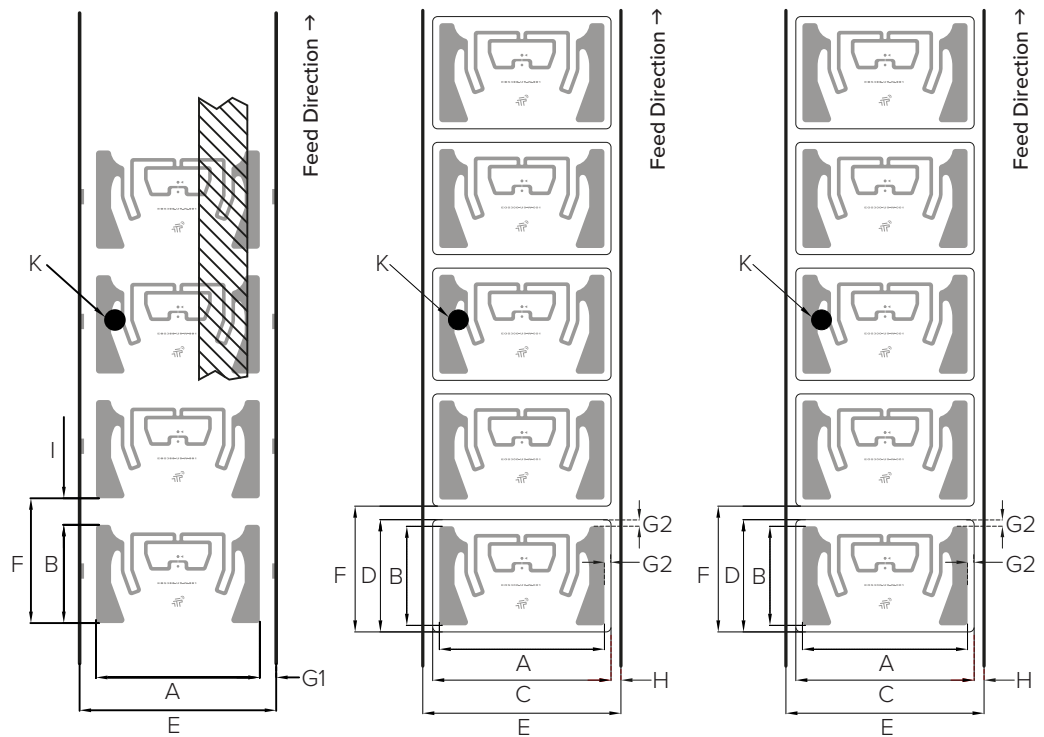


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Product Specifications

Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	300000171	300000157	300000150
Antenna Size	A x B 50 x 30 mm / 1.97 x 1.18 in	50 x 30 mm / 1.97 x 1.18 in	50 x 30 mm / 1.97 x 1.18 in
Die-cut Size	C x D -	54 x 34 mm / 2.13 x 1.34 in	54 x 34 mm / 2.13 x 1.34 in
Web Width	E 60.0 ± 1 mm / 2.362 ± 0.04 in	60.0 ± 1 mm / 2.362 ± 0.04 in	60.0 ± 1 mm / 2.362 ± 0.04 in
Pitch	F 38.10 ± 0.5 mm / 1.500 ± 0.02 in	38.10 ± 1 mm / 1.500 ± 0.04 in	38.10 ± 1 mm / 1.500 ± 0.04 in
Antenna to Web Edge	G1 5 ± 1 mm / 0.20 ± 0.04 in	-	-
Antenna to Die-cut	G2 -	2.0 ± 1 mm / 0.079 ± 0.04 in	2.0 ± 1 mm / 0.079 ± 0.04 in
Die-cut to Web Edge	H -	3.0 ± 1 mm / 0.118 ± 0.04 in	3.0 ± 1 mm / 0.118 ± 0.04 in
Antenna Gap	I 8.10 mm / 0.318 in	-	-
Converting Spot	J -	-	-
Bad Mark	K ∅ 6 mm / 0.236 in	∅ 6 mm / 0.236 in	∅ 6 mm / 0.236 in
Interleaves	L yes	-	-



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Packing Details

	Dry	Wet	Paper-face
Product Code	3000000171	3000000157	3000000150
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	308 mm / 12.13 in	340 mm / 13.39 in	207 mm / 8.15 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	18 000	13 000	3,000
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	39.5 x 39.0 x 17.0 cm / 10.24 x 10.24 x 14.57 in
Roll/Box	2	2	5
Inlays/Box	36 000	26 000	15 000
Box Gross Weight	9.04 kg / 19.93 lbs	11.58 kg / 25.53 lbs	9.30 kg / 20.50 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	1 728 000	1 248 000	540 000
Pallet Gross Weight	459 kg / 1 012 lbs	581 kg / 1 281 lbs	360 kg / 794 lbs

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