

EOS-200 U9

T A G E O S

Datasheet

High Performance for Tracking Small High-Value Items

The EOS-200 U9 inlay features the compact size required for tagging small high-value items such as jewelry, accessories, cosmetics, and small pharmaceutical packages. The inlay's IC-specific antenna design and reliable performance make it a solution of choice for a wide of range applications related to inventory visibility and item-level tagging in retail and beyond.

EOS-200 U9 inlay uses NXP's UCODE 9 IC offering high performance and is particularly well suited for inventory management applications. UCODE 9 enables 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.

Available in dry, wet, and paper-face delivery format, EOS-200 U9 is an ETSI-tuned design for use in regions where the ETSI standard applies.

Like all Tageos' RFID products, the RAIN RFID inlay is compliant with ISO 9001:2015 Quality Management System.

Tageos is one of the first companies to have successfully completed the ARC Quality Certification from Auburn University RFID Lab. All products comply with Environmental Directives RoHS and REACH, utilizing sustainable materials such as FSC® certified paper whenever possible.



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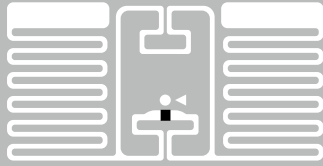
Overview

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

Application Areas

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

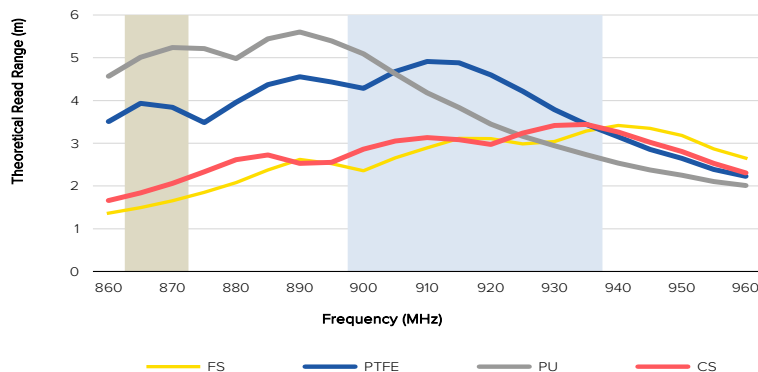




Technical Overview

	Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code	2000000098	2000000099	2000000100
Antenna Size	20 x 10 mm 0.79 x 0.39 in	20 x 10 mm 0.79 x 0.39 in	20 x 10 mm 0.79 x 0.39 in
Finish Size	-	24 x 14 mm 0.94 x 0.55 in	24 x 14 mm 0.94 x 0.55 in
Web Width	32 ± 1 mm 1.26 ± 0.04 in	32 ± 1 mm 1.26 ± 0.04 in	32 ± 1 mm 1.26 ± 0.04 in
Pitch	18.18 ± 0.2 mm 0.72 ± 0.01 in	18.18 ± 0.2 mm 0.72 ± 0.01 in	18.18 ± 0.2 mm 0.72 ± 0.01 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
ARC Approvals	-	-	-

Read Range

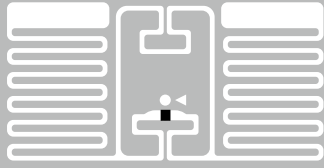


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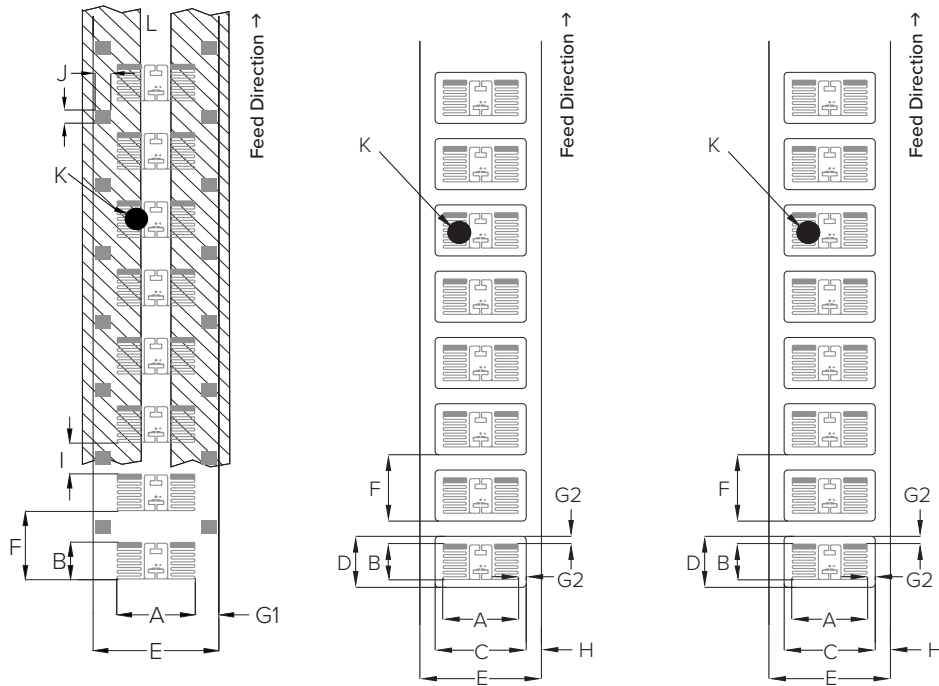
Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices to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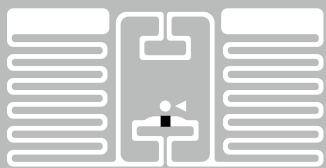


Product Specifications

Mechanical Dimensions



	Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code	2000000098	2000000099	2000000100
Antenna Size	A x B 20 x 10 mm / 0.79 x 0.39 in	20 x 10 mm / 0.79 x 0.39 in	20 x 10 mm / 0.79 x 0.39 in
Finish Size	C x D -	24 x 14 mm / 0.94 x 0.55 in	24 x 14 mm / 0.94 x 0.55 in
Web Width	E 32 ± 1 mm / 1.26 ± 0.04 in	32 ± 1 mm / 1.26 ± 0.04 in	32 ± 1 mm / 1.26 ± 0.04 in
Pitch	F 18.18 ± 0.2 mm / 0.72 ± 0.01 in	18.18 ± 0.2 mm / 0.72 ± 0.01 in	18.18 ± 0.2 mm / 0.72 ± 0.01 in
Antenna to Web Edge	G1 6 ± 1 mm / 0.24 ± 0.04 in	-	-
Antenna to Die-cut	G2 -	2 ± 1 mm / 0.06 ± 0.04 in	2 ± 1 mm / 0.06 ± 0.04 in
Die-cut to Web Edge	H -	4 ± 1 mm / 0.16 ± 0.04 in	4 ± 1 mm / 0.16 ± 0.04 in
Antenna Gap	I 8.18 mm / 0.32 in	-	-
Converting Spot	J 4 x 3.5 mm / 0.16 x 0.14 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



EOS-200 U9

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Packing Details

	Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code	2000000098	2000000099	2000000100
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	276 mm / 10.87 in	307 mm / 12.05 in	188 mm / 7.40 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	30 000	22 000	5 000
Min. Guar. Yield/Roll	98.5%	98.5%	98.5%
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	3	3	9
Inlays/Box	90 000	66 000	45 000
Box Gross Weight	5.7 kg / 12.57 lbs	7.5 kg / 16.53 lbs	6.8 kg / 14.99 lbs
Pallet Dimensions	120 x 80 x 151 47.2 x 31.5 x 59.4 in	120 x 80 x 151 47.2 x 31.5 x 59.4 in	120 x 80 x 126 47.2 x 31.5 x 49.6 in
Boxes/Pallet	48	48	36
Inlays/Pallet	4 320 000	3 168 000	1 620 000
Pallet Gross Weight	299 kg / 659 lbs	385 kg / 849 lbs	270 kg / 595 lbs

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