

EOS-360 U9

T A G E O S

Datasheet

ARC C2 Spec Certified Solution for General Merchandise and Beyond



The EOS-360 U9 inlay combines a remarkably compact footprint with superior performance on cardstock, plastic, and rubber surfaces due to advanced antenna design and the latest generation IC technology. With an antenna size of just 64 mm x 4 mm and certified compliance with ARC specifications C2, the inlay is an optimum solution for many item-level applications in non-food retail (cosmetics, home improvement & sporting goods, toys, ...) and supply chain management.

EOS-360 U9 is based on NXP's UCODE 9 RAIN RFID chip. Equipped with 96-bit EPC memory, the IC provides 96-bit EPC; kill password; EPC and kill password permalock; self-adjusting impedance; and memory integrity safeguards. It lends itself to solutions that include high-speed inventory counting, loss prevention with frictionless self-checkout, and embedded tagging with seamless product returns.

EOS-360 U9 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.

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.

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 18000-63

Application Areas

- Beauty & Cosmetics
- Home Goods
- Inventory Visibility
- Item Level Tagging
- Supply Chain Management



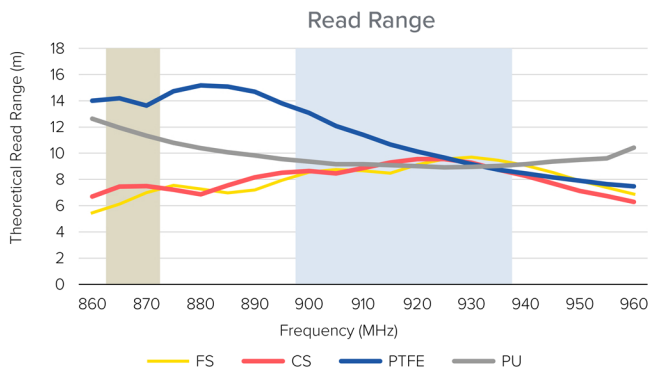


EOS-360 U9

T A G E O S

Technical Overview

	Dry	Wet	Paper-face
Product Code	3600000001	3600000002	3600000003
Antenna Size	64 x 4 mm 2.52 x 0.16 in	64 x 4 mm 2.52 x 0.16 in	64 x 4 mm 2.52 x 0.16 in
Finish Size	-	67 x 7 mm 2.64 x 0.28 in	67 x 7 mm 2.64 x 0.28 in
Web Width	72.00 ± 1 mm 2.835 ± 0.04 in	72.00 ± 1 mm 2.835 ± 0.04 in	72.00 ± 1 mm 2.835 ± 0.04 in
Pitch	15.02 ± 0.2 mm 0.591 ± 0.01 in	15.02 ± 1 mm 0.591 ± 0.04 in	15.02 ± 1 mm 0.591 ± 0.04 in
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	PET clear	Paper TT
Inlay Substrate	PET Clear 50µm	PET Clear 50µm	PET Clear 50µm
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 Time	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
ARC Approvals	C2	C2	C2



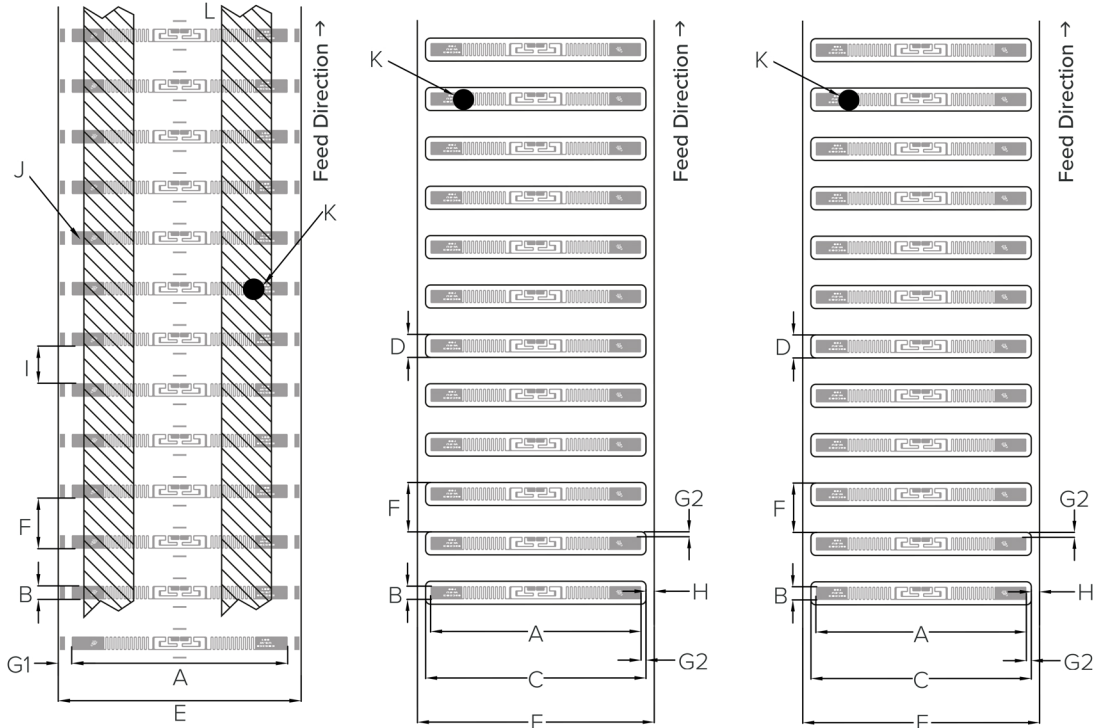
Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices to 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	Wet	Paper-face
Product Code	3600000001	3600000002	3600000003
Antenna Size	A x B 64 x 4 mm / 2.52 x 0.16 in	64 x 4 mm / 2.52 x 0.16 in	64 x 4 mm / 2.52 x 0.16 in
Finish Size	C x D - / -	67 x 7 mm / 2.64 x 0.28 in	67 x 7 mm / 2.64 x 0.28 in
Web Width	E 72.00 ± 1 mm / 2.835 ± 0.04 in	72.00 ± 1 mm / 2.835 ± 0.04 in	72.00 ± 1 mm / 2.835 ± 0.04 in
Pitch	F 15.02 ± 0.2 mm / 0.591 ± 0.01 in	15.02 ± 1 mm / 0.591 ± 0.04 in	15.02 ± 1 mm / 0.591 ± 0.04 in
Antenna to Web Edge	G1 4.0 ± 1 mm / 0.157 ± 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 -	2.5 ± 1 mm / 0.098 ± 0.04 in	2.5 ± 1 mm / 0.098 ± 0.04 in
Antenna Gap	I 11.02 mm / 0.434 in	-	-
Converting Spot	J 9.68 x 4.00 mm / 0.381 x 0.157 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



EOS-360 U9

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Packing Details

	Dry	Wet	Paper-face
Product Code	3600000001	3600000002	3600000003
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	321 mm / 12.64 in	336 mm / 13.23 in	200 mm / 7.87 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	50 000	32 000	7 000
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	1	1	4
Inlays/Box	50 000	32 000	28 000
Box Gross Weight	5.97 kg / 13.16 lbs	6.71 kg / 14.8 lbs	7.9 kg / 17.42 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	2 400 000	1 536 000	1 008 000
Pallet Gross Weight	312 kg / 688 lbs	347 kg / 765 lbs	309 kg / 681 lbs

