



EOS-350 U9

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Datasheet



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High Performance and Small Size for Aviation Baggage Tracking

EOS-350 U9 inlay was designed with IATA Resolution 753 in mind and combines two features that make it ideal for airline baggage tracking applications: an extra-compact size – a 17 % smaller antenna than the second smallest product on ARC’s “Approved Inlay List - Spec U” (as of August 2022) – and the pioneering use of NXP’s UCODE 9 IC technology.

As a particularly small, light RAIN RFID inlay that doesn’t compromise on global performance, EOS-350 U9 contributes to reducing the carbon footprint of aircraft operation.

Equipped with 96-bit EPC memory, the NXP UCODE 9 RAIN RFID chip 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-350 U9 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. EOS-350 U9 complies with ARC specification U.

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

Application Areas

- Aviation
- Luggage Tracking
- Inventory Visibility
- Item Level Tagging





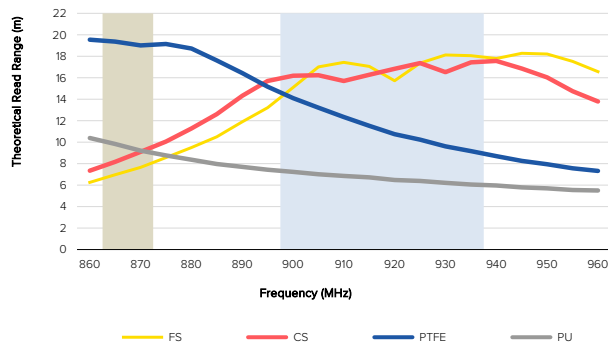
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Technical Overview

	Dry inlay	Wet Inlay	Paper-face Inlay
Product Code	3500000005	3500000006	3500000007
Antenna Size	30 x 60 mm 1.18 x 2.36 in	30 x 60 mm 1.18 x 2.36 in	30 x 60 mm 1.18 x 2.36 in
Finish Size	-	33 x 63 mm 1.30 x 2.48 in	33 x 63 mm 1.30 x 2.48 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	66.68 ± 0.2 mm 2.63 ± 0.01 in	66.68 ± 1 mm 2.63 ± 0.04 in	66.68 ± 1 mm 2.63 ± 0.04 in
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	PET clear	Paper TT
Inlay Substrate	PET clear	PET clear	PET clear
Inlay Adhesive	-	Permanent	Permanent
Inlay 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	U	U	U

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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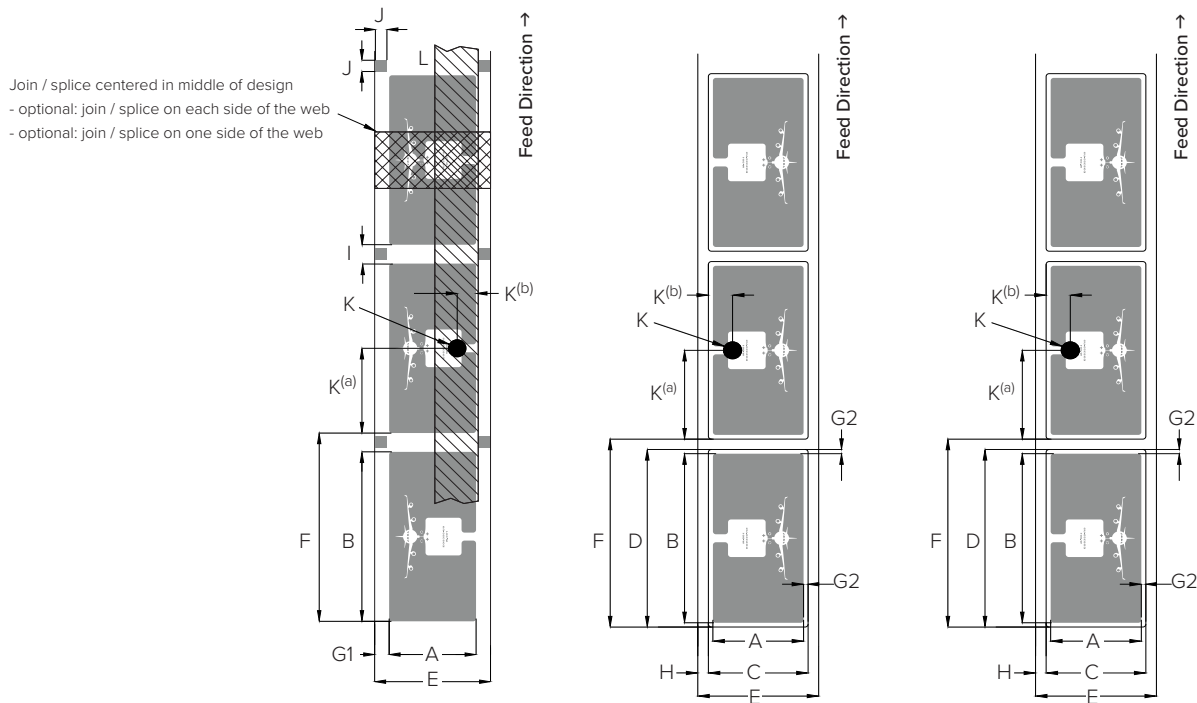


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Product Specifications

Mechanical Dimensions



		Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code		3500000005	3500000006	3500000007
Antenna Size	A x B	30 x 60 mm / 1.18 x 2.36 in	30 x 60 mm / 1.18 x 2.36 in	30 x 60 mm / 1.18 x 2.36 in
Finish Size	C x D	-	33 x 63 mm / 1.30 x 2.48 in	33 x 63 mm / 1.30 x 2.48 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	66.68 ± 0.2 mm / 2.63 ± 0.01 in	66.68 ± 1 mm / 2.63 ± 0.04 in	66.68 ± 1 mm / 2.63 ± 0.04 in
Antenna to Web Edge	G1	5 ± 1 mm / 0.2 ± 0.04 in	-	-
Antenna to Die-cut	G2	-	1.5 ± 1 mm / 0.06 ± 0.04 in	1.5 ± 1 mm / 0.06 ± 0.04 in
Die-cut to Web Edge	H	-	3.5 ± 1 mm / 0.14 ± 0.04 in	3.5 ± 1 mm / 0.14 ± 0.04 in
Antenna Gap	I	6.68 mm / 0.26 in	-	-
Converting Spot	J	4 x 4 mm / 0.16 x 0.16 in	-	-
Bad Mark	K	∅ 6 mm / 0.24 in 30 ± 10 mm / 1.18 ± 0.39 in ^(a) 6.5 ± 5 mm / 0.26 ± 0.2 in ^(b)	∅ 6 mm / 0.24 in 31.5 ± 10 mm / 1.24 ± 0.39 in ^(a) 8.5 ± 5 mm / 0.33 ± 0.2 in ^(b)	∅ 6 mm / 0.24 in 31.5 ± 10 mm / 1.24 ± 0.39 in ^(a) 8.5 ± 5 mm / 0.33 ± 0.2 in ^(b)
Interleaves	L	yes	no	no



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Packing Details

	Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code	3500000005	3500000006	3500000007
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	341 mm / 13.43 in	318 mm / 12.52 in	196 mm / 7.72 in
Unwinding Direction	Label on outside of roll	Label on outside of roll	Label on outside of roll
Standard Roll Size	12 800	6 400	1 500
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 x 26 x 37 cm / 10.24 x 10.24 x 14.57 in
Roll/Box	3	3	7
Inlays/Box	38 400	19 200	10 500
Box Gross Weight	10.59 kg / 23.35 lbs	9.93 kg / 21.90 lbs	7.57 kg / 16.69 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	1 843 200	921 600	378 000
Pallet Gross Weight	533 kg / 1175 lbs	502 kg / 1107 lbs	298 kg / 657 lbs

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