



EOS-430 U9

TAGEOS

Datasheet

Streamlined, Versatile Solution for Global Retail and General Industrial Applications



TAGEOS

With its compact, streamlined antenna design and the excellent global RF performance of its innovative IC, the EOS-430 U9 inlay is the product of choice for a wide range of applications. They comprise brand protection and inventory management for apparel, fashion items and homewares, as well as supply chain, logistics and general industrial tagging purposes.

The inlay is available in dry, wet and paper-face format, making it the perfect basis for solutions that will satisfy the needs of the retail industry as well as many general industrial segments.

EOS-430 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.

Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab. EOS-430 U9 complies with ARC specifications F, G, I, J, K, L, N, O, Q, R, Y, Y2, W1, W2, W3, W4, W5 and W6.

Like all Tageos' RFID products, EOS-430 U9 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 18000-6c

Application Areas

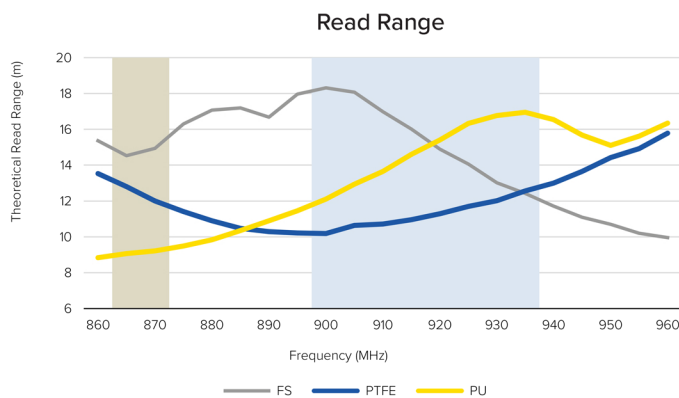
- Apparel
- Inventory Visibility
- Parts Management
- Supply Chain Management
- Track & Trace





Technical Overview

	Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code	4300000030	4300000035	4300000031
Antenna Size	70 x 8 mm 2.76 x 0.31 in	70x 8 mm 2.76 x 0.31 in	70 x 8 mm 2.76 x 0.31 in
Die-cut Size	- -	74 x 12 mm 2.91 x 0.47 in	74 x 12 mm 2.91 x 0.47 in
Web Width	80 ± 1 mm 3.15 ± 0.04 in	80 ± 1 mm 3.15 ± 0.04 in	80 ± 1 mm 3.15 ± 0.04 in
Pitch	16 ± 0.5 mm 0.63 ± 0.02 in	16 ± 0.5 mm 0.63 ± 0.02 in	16 ± 0.5 mm 0.63 ± 0.02 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	F, G, I, J, K, L, N, O, Q, R, Y, Y2; W1, W2, W3, W4, W5, W6	F, G, I, J, K, L, N, O, Q, R, Y, Y2; W1, W2, W3, W4, W5, W6	F, G, I, J, K, L, N, O, Q, R, Y, Y2; W1, W2, W3, W4, W5, W6



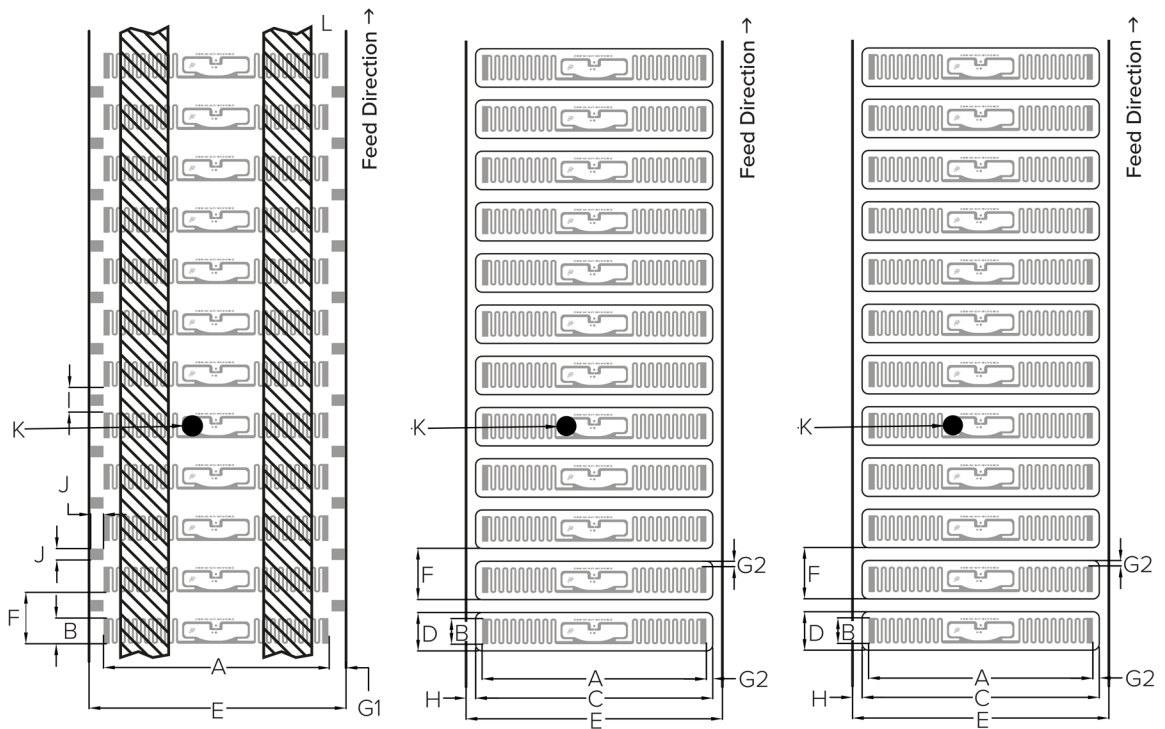
Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices to 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	4300000030	4300000035	4300000031
Antenna Size	A x B 70 x 8 mm / 2.76 x 0.31 in	70 x 8 mm / 2.76 x 0.31 in	70 x 8 mm / 2.76 x 0.31 in
Die-cut Size	C x D -	74 x 12 mm / 2.91 x 0.47 in	74 x 12 mm / 2.91 x 0.47 in
Web Width	E 80 ± 1 mm / 3.15 ± 0.04 in	80 ± 1 mm / 3.15 ± 0.04 in	80 ± 1 mm / 3.15 ± 0.04 in
Pitch	F 16 ± 0.5 mm / 0.63 ± 0.02 in	16 ± 0.5 mm / 0.63 ± 0.02 in	16 ± 0.5 mm / 0.63 ± 0.02 in
Antenna to Web Edge	G1 5.5 ± 0.2 mm / 0.22 ± 0.01 in	-	-
Antenna to Die-cut	G2	2 ± 1 mm / 0.08 ± 0.04 in	2 ± 1 mm / 0.08 ± 0.04 in
Die-cut to Web Edge	H -	3 ± 1 mm / 0.12 ± 0.04 in	3 ± 1 mm / 0.12 ± 0.04 in
Antenna Gap	I 8 mm / 0.31 in	-	-
Converting Spot	J 3.5 x 4 mm / 0.14 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



EOS-430 U9

T A G E O S

Packing Details

	Dry Inlay	Wet Inlay	Paper-face Inlay
Product Code	4300000030	4300000035	4300000031
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	280 mm / 11.02 in	351 mm / 13.82 in	179 mm / 7.04 in
Unwinding Direction	Label on outside of roll	Label on outside of roll	Label on outside of roll
Standard Roll Size	35 000	33 000	5 000
Min. Guar. Yield/Roll	98.5%	98.5%	98.5%
Box Dimensions	39.5 x 39 x 17 cm / 15.5 x 15.3 x 6.7 in	39.5 x 39 x 17 cm / 15.5 x 15.3 x 6.7 in	26 x 26 x 37 cm / 10.2 x 10.2 x 14.5 in
Roll/Box	1	1	4
Inlays/Box	35 000	33 000	20 000
Box Gross Weight	4.99 kg / 11.00 lbs	7.77 kg / 17.13 lbs	6.52 kg / 14.37 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	1 680 000	1 584 000	720 000
Pallet Gross Weight	264 kg / 582 lbs	398 kg / 877 lbs	260 kg / 573 lbs

