



EOS-430 U9xe

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Datasheet



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Versatile and High-Memory Solution for Retail and Logistics

With its compact, streamlined antenna design and the excellent global RF performance of its innovative IC, the EOS-430 U9xe 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 uses NXP's UCODE 9xe IC. Designed as a drop-in replacement for the high-performance UCODE 9, the new IC offers the same feature set and RF performance as the UCODE 9, but with 128 bits

of Electronic Product Code (EPC) memory to support smarter than before IoT use cases.

Tageos maintains annual ARC Quality Certification for all its manufacturing sites worldwide and was among the first companies to receive certification from the Auburn University RFID Lab in 2020. EOS-430 U9xe complies with ARC specifications F, I, L, O, Q, R, W5, W6

Tageos complies with ISO 9001:2025 Quality Management and ISO 14001:2015 Environmental Management as well as utilizing sustainable manufacturing processes and materials, such as FSC®-certified paper, whenever possible. In addition, all Tageos products meet the RoHS and REACH environmental directives.

Overview

IC:	NXP UCODE 9xe
EPC/User Memory:	128 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

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



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FSC® C166692

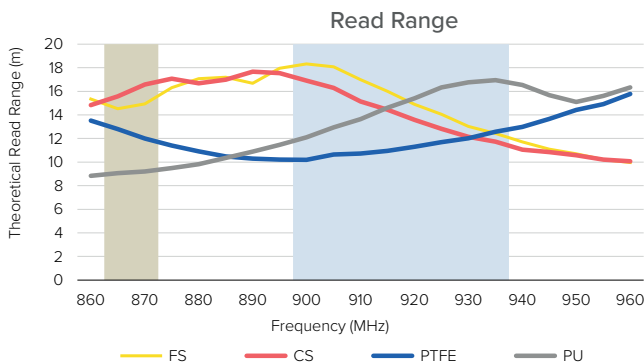


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Technical Overview

	Dry	Wet	Paper-face
Product Code	4300000067	4300000068	4300000069
Antenna Size	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
Finish Size	-	74 x 12 mm 2.91 x 0.47 in	74 x 12 mm 2.91 x 0.47 in
Web Width	80.0 ± 1 mm 3.150 ± 0.04 in	80.0 ± 1 mm 3.150 ± 0.04 in	80.0 ± 1 mm 3.150 ± 0.04 in
Pitch	16.00 ± 0.2 mm 0.630 ± 0.01 in	16.00 ± 1 mm 0.630 ± 0.04 in	16.00 ± 1 mm 0.630 ± 0.04 in
ARC Approval	F, I, L, O, Q, R, W5, W6	F, I, L, O, Q, R, W5, W6	F, I, L, O, Q, R, W5, W6
FSC® Certification	-	-	-
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	PET clear	Paper TT
Inlay Substrate	PET clear	PET clear	PET clear
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	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



Contact:
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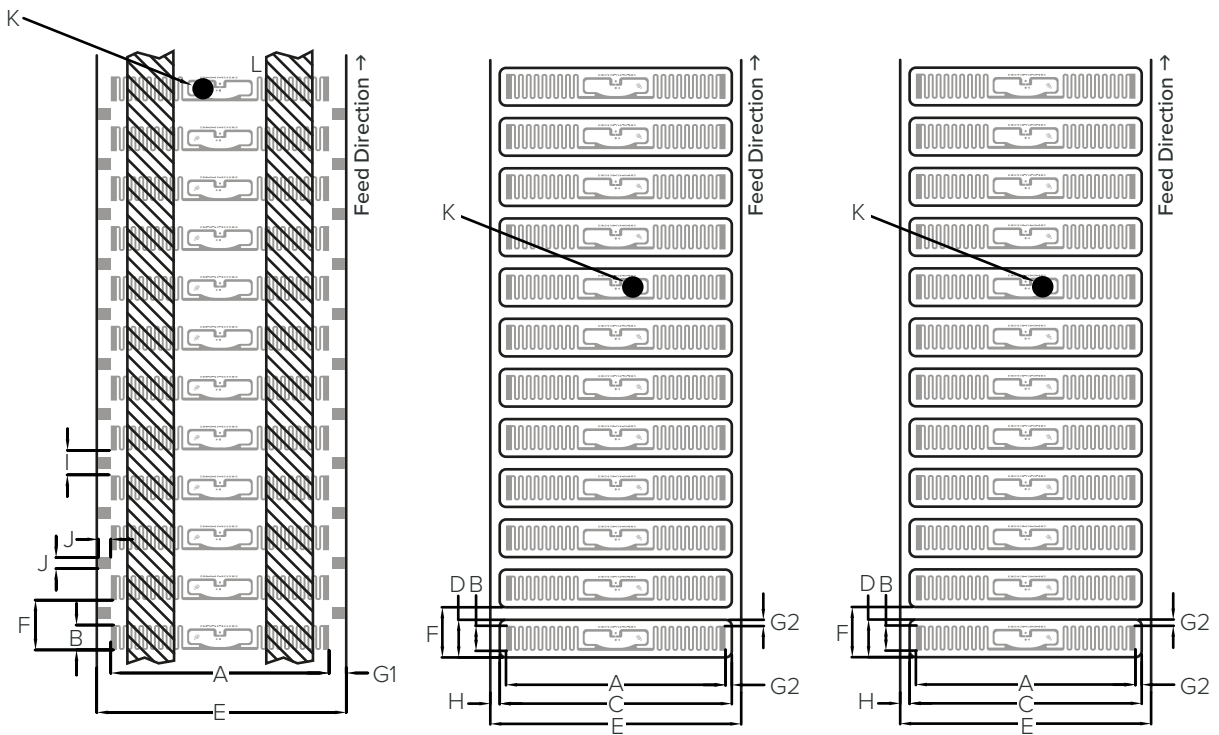
Graphs: All the graphs are indicative: performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices to 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	Wet	Paper-face
Product Code	4300000067	4300000068	4300000069
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
Finish 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 80.0 ± 1 mm / 3.150 ± 0.04 in	80.0 ± 1 mm / 3.150 ± 0.04 in	80.0 ± 1 mm / 3.150 ± 0.04 in
Pitch	F 16.00 ± 0.2 mm / 0.630 ± 0.01 in	16.00 ± 1 mm / 0.630 ± 0.04 in	16.00 ± 1 mm / 0.630 ± 0.04 in
Antenna to Web Edge	G1 5.5 ± 1 mm / 0.217 ± 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 8.00 mm / 0.31 in	-	-
Converting Spot	J 4.00 x 3.50 mm / 0.157 x 0.138 in	-	-
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



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Packing Details

	Dry	Wet	Paper-face
Product Code	4300000067	4300000068	4300000069
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 / 7.05 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	35 000 (-0% +1.5%)	33 000 (-0% +1.5%)	5 000 (-0% +1.5%)
Min. Guar. Yield/Roll	99%	99%	99%
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	35 000	33 000	20 000
Box Gross Weight	4.99 kg / 11.00 lbs	7.77 kg / 17.13 lbs	6.54 kg / 14.42 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	1 680 000	1 584 000	720 000
Pallet Gross Weight	265 kg / 854 lbs	398 kg / 877 lbs	260 kg / 573 lbs

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