

EOS-205 U8

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Datasheet

Cost-effective Global Solution for Low-memory Applications



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EOS-205 U8 inlay is optimized within a small footprint to suit low-memory applications in light and medium loading situations. As such, it is an ideal low-cost solution for inventory management in non-food industries as varied as retail apparel to cosmetics, healthcare, pharmaceuticals, logistics and industrial manufacturing such as automotive and aerospace.

The inlay is ideal for large-scale, world-wide deployments, since it is a small, universal tag that can operate worldwide, simplifying the tag supply chain for global enterprises.

It uses NXP's UCODE 8 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 8 enables long read distance and fast inventory of dense RFID tag

populations. The chip also provides a self-adjust feature, a product status flag for Electronic Article Surveillance (EAS) applications, pre-serialized 96-bit EPC, Brand Identifier, and the EPC Gen2v2 compliant Untraceable command.

EOS-205 inlay is available in dry, wet and plastic-face format.

Like all Tageos' RFID products, the EOS-205 U8 inlay 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.

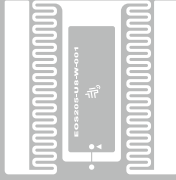
Overview

IC:	NXP UCODE 8
EPC/User Memory:	128 bit / - bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz (FCC)
Protocol:	EPC Class 1 Gen 2 ISO 18000-6c

Application Areas

- Apparel
- Beauty & Cosmetics
- Inventory Visibility
- Item Level Tagging
- Parts Management
- Supply Chain Management



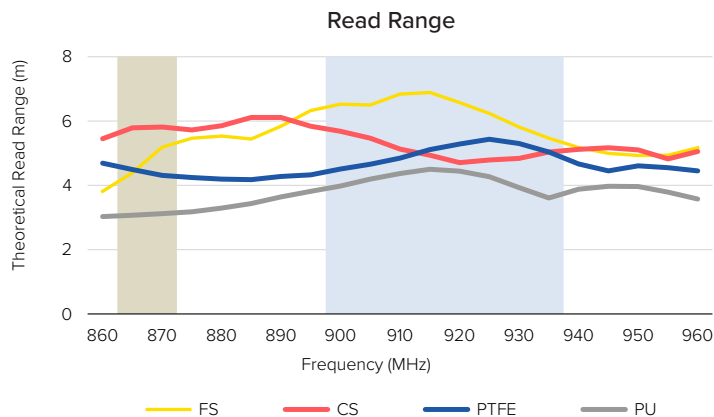


EOS-205 U8

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Technical Overview

	Dry Inlay	Wet Inlay	Plastic-face Inlay
Product Code	2000000072	2000000070	2000000071
Antenna Size	23 x 23 mm 0.91 x 0.91 in	23 x 23 mm 0.91 x 0.91 in	23 x 23 mm 0.91 x 0.91 in
Die-cut Size	-	26 x 26 mm 1.02 x 1.02 in	26 x 26 mm 1.02 x 1.02 in
Web Width	30 ± 0.5 mm 1.18 ± 0.02 in	30 ± 0.5 mm 1.18 ± 0.02 in	30 ± 0.5 mm 1.18 ± 0.02 in
Pitch	30.04 ± 0.5 mm 0.18 ± 0.02 in	30.04 ± 0.5 mm 0.18 ± 0.02 in	30.04 ± 0.5 mm 0.18 ± 0.02 in
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	Clear plastic	TT Plastic
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
Market Approvals	-	-	-

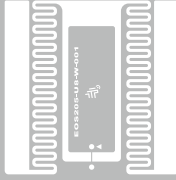


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Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:**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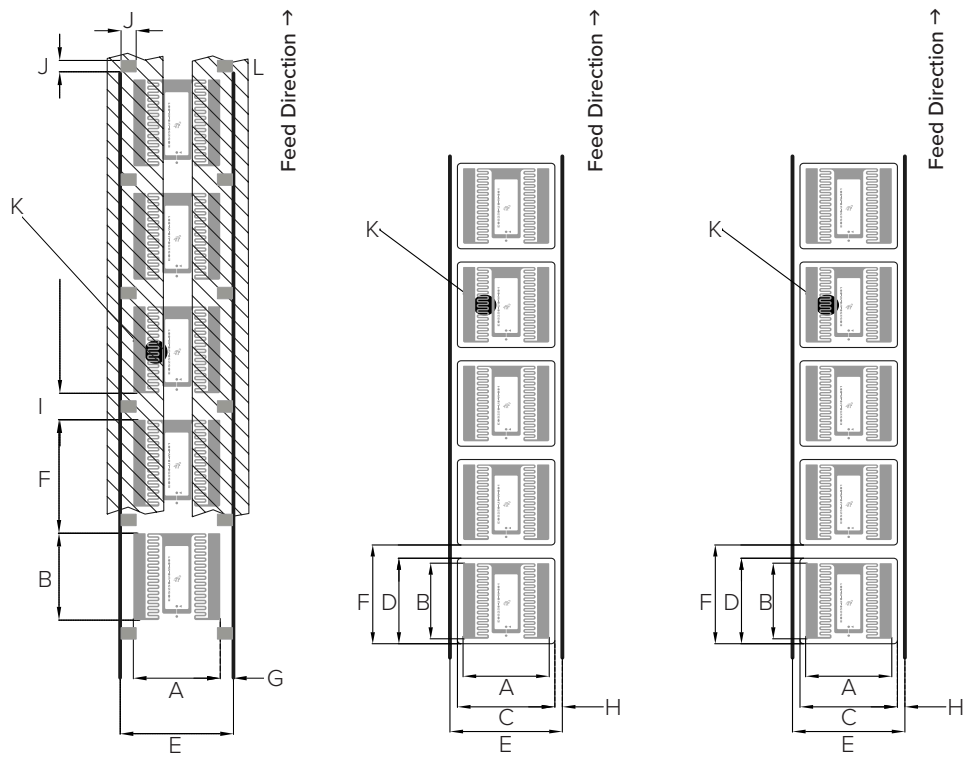


EOS-205 U8

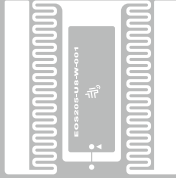
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Product Specifications

Mechanical Dimensions



	Dry Inlay	Wet Inlay	Plastic-face Inlay
Product Code	2000000072	2000000070	2000000071
Antenna Size	A x B 23 x 23 mm / 0.91 x 0.91 in	23 x 23 mm / 0.91 x 0.91 in	23 x 23 mm / 0.91 x 0.91 in
Die-cut Size	C x D -	26 x 26 mm / 1.02 x 1.02 in	26 x 26 mm / 1.02 x 1.02 in
Web Width	E 30 ± 0.5 mm / 1.18 ± 0.02 in	30 ± 0.5 mm / 1.18 ± 0.02 in	30 ± 0.5 mm / 1.18 ± 0.02 in
Pitch	F 30.04 ± 0.5 mm / 0.75 ± 0.02 in	30.04 ± 0.5 mm / 0.75 ± 0.02 in	30.04 ± 0.5 mm / 0.75 ± 0.02 in
Antenna to Web Edge	G 3.5 ± 0.5mm / 0.14 ± 0.02 in	-	-
Die-cut to Web Edge	H -	2 mm / 0.08 in	2 mm / 0.08 in
Antenna Gap	I 7.04 mm / 0.28 in	-	-
Converting Spot	J 3.04 x 4 mm/ 0.12 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-205 U8

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Packing Details

	Dry Inlay	Wet Inlay	Plastic-face Inlay
Product Code	2000000072	2000000070	2000000071
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	290 mm / 11.42 in	336 mm / 13.23 in	200 mm / 7.87 in
Unwinding Direction	Label on outside of roll	Label on outside of roll	Label on outside of roll
Standard Roll Size	20 000	16 000	3 500
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	4	4	10
Inlays/Box	80 000	64 000	35 000
Box Gross Weight	9.45 kg / 20.83 lbs	10.84 kg / 23.90 lbs	8.24 kg / 18.17 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	3 840 000	3 072 000	1 260 000
Pallet Gross Weight	479 kg / 1056 lbs	545 kg / 1 202 lbs	322 kg / 710 lbs

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