

EOS-205 U8

TAGEOS

Datasheet

Cost-effective Global Solution for Low-memory Applications

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.

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

It uses NXP's UCODE 8 IC, 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.

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.

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.

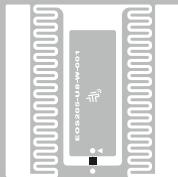
Overview

| | |
|------------------|--------------------------------|
| IC: | NXP UCODE 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 18000-63 |

Application Areas

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



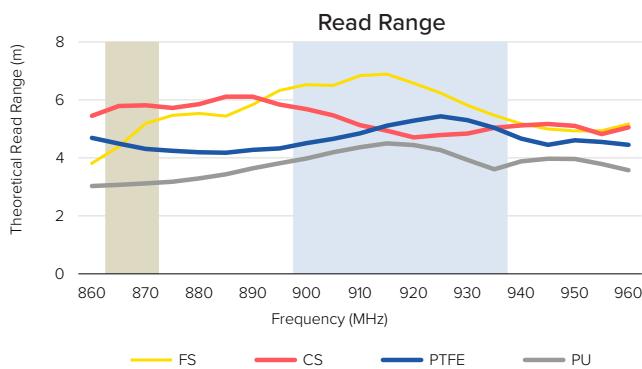


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Technical Overview

| | 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 ± 1 mm 1.18 ± 0.04 in | 30 ± 1 mm 1.18 ± 0.04 in | 30 ± 1 mm 1.18 ± 0.04 in |
| Pitch | 30.04 ± 0.2 mm 1.183 ± 0.01 in | 30.04 ± 1 mm 1.183 ± 0.04 in | 30.04 ± 1 mm 1.183 ± 0.04 in |
| ARC Approvals | - | - | - |
| FSC® Certification | - | - | - |
| 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 @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 |



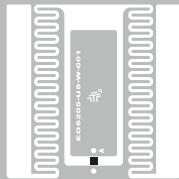
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Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:**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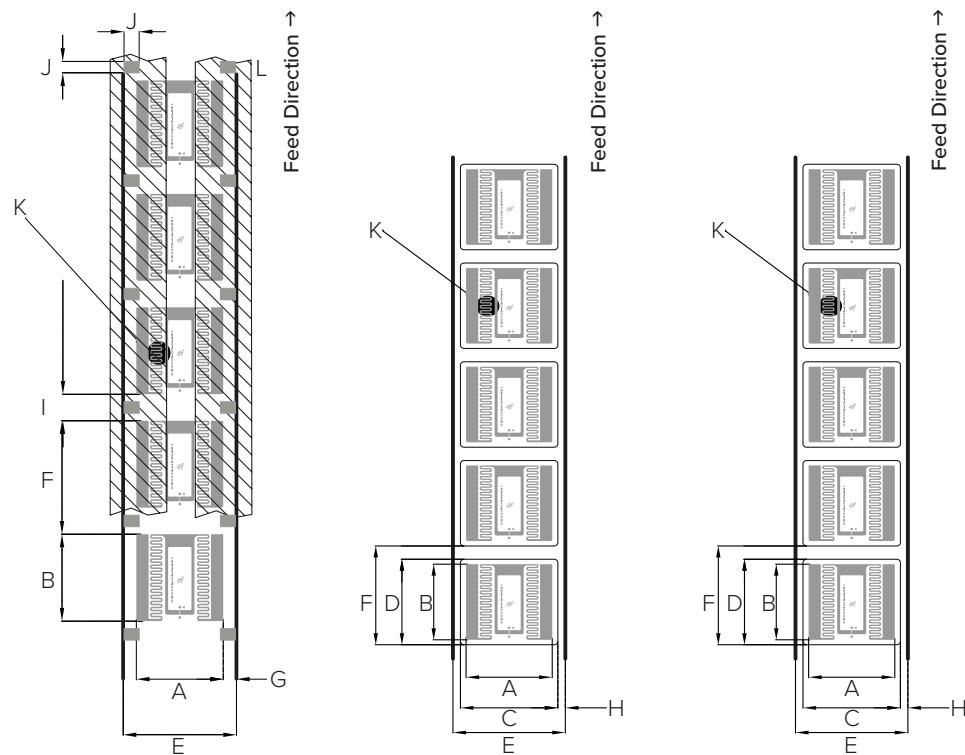


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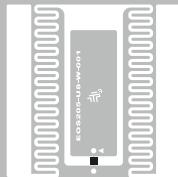
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Product Specifications

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 ± 1 mm / 1.18 ± 0.04 in | 30 ± 1 mm / 1.18 ± 0.04 in | 30 ± 1 mm / 1.18 ± 0.04 in |
| Pitch | F 30.04 ± 0.2 mm / 1.183 ± 0.01 in | 30.04 ± 1 mm / 1.183 ± 0.04 in | 30.04 ± 1 mm / 1.183 ± 0.04 in |
| Antenna to Web Edge | G 3.5 ± 1 mm / 0.14 ± 0.04 in | - | - |
| Die-cut to Web Edge | H - | $2 \text{ mm} \pm 1 \text{ mm} / 0.08 \pm 0.04 \text{ in}$ | $2 \text{ mm} \pm 1 \text{ mm} / 0.08 \pm 0.04 \text{ in}$ |
| Antenna Gap | I 7.04 mm / 0.28 in | - | - |
| Converting Spot | J 3.04×4 mm / 0.12 x 0.16 in | - | - |
| Bad Mark | K 0.6 mm / 0.24 in | 0.6 mm / 0.24 in | 0.6 mm / 0.24 in |
| Interleaves | L yes | no | no |



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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 (-0% +1.5%) | 16 000 (-0% +1.5%) | 3 500 (-0% +1.5%) |
| Min. Guar. Yield/Roll | 99% | 99% | 99% |
| 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 / 1202 lbs | 322 kg / 710 lbs |

Contact us:

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