



EOS-300 U9xe

T A G E O S

Datasheet



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Cost-effective & High Memory for Volume Applications

The EOS-300 U9xe inlay, optimized for compact retail hang tags and logistics packaging, offers excellent orientation sensitivity and performs well on various materials in dense tagging environments. It is a cost-effective solution for inventory control in non-food industries like retail, logistics, and supply chain management.

The inlay is perfect 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.

This makes the EOS-300 U9xe an ideal solution for environments that require high-memory ICs to store essential item attributes on-chip.

EOS-300 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 was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab.

Like all Tageos' RFID inlays and tags, it 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 manufacturing processes and materials, such as FSC®-certified paper whenever possible.

Overview

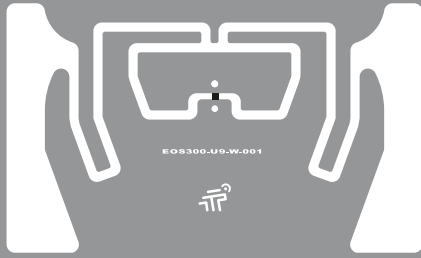
| | |
|------------------|----------------------------------|
| IC: | NXP UCODE 9xe |
| EPC/User Memory: | 128 bit / - bit |
| TID Memory: | 96 bit incl. 48 bit unique S/N |
| Frequency Band: | 860 - 960 MHz |
| Protocol: | EPC Class 1 Gen 2 - ISO 18000-63 |

Application Areas

- Apparel
- Inventory Visibility
- Item Level Tagging
- Parts Management
- Supply Chain Management



The mark of responsible forestry
FSC® C166692

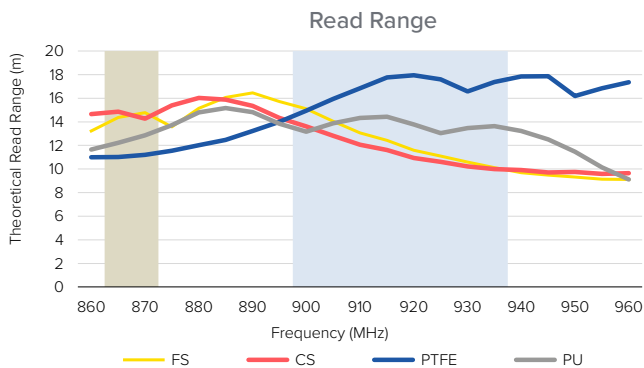


EOS-300 U9xe

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Technical Overview

| | Dry (reverse) | Wet (reverse) | Paper-face (reverse) |
|-----------------------|--|--|--|
| Product Code | 3000000193 | 3000000194 | 3000000195 |
| Antenna Size | 50 x 30 mm 1.97 x 1.18 in | 50 x 30 mm 1.97 x 1.18 in | 50 x 30 mm 1.97 x 1.18 in |
| Finish Size | - | 54 x 34 mm 2.13 x 1.34 in | 54 x 34 mm 2.13 x 1.34 in |
| Web Width | 60.00 ± 1 mm 2.362 ± 0.04 in | 60.00 ± 1 mm 2.362 ± 0.04 in | 60.00 ± 1 mm 2.362 ± 0.04 in |
| Pitch | 38.10 ± 0.2 mm 1.500 ± 0.01 in | 38.10 ± 1 mm 1.500 ± 0.04 in | 38.10 ± 1 mm 1.500 ± 0.04 in |
| ARC Approval | - | - | - |
| FSC® Certification | - | - | - |
| Antenna Material | Aluminium | Aluminium | Aluminium |
| Front Face | - | PET clear | Paper TT |
| Inlay Substrate | PET Clear 50µm | PET Clear 50µm | PET Clear 50µm |
| 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 |



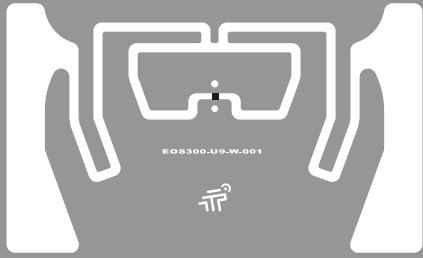
Contact:

Tageos SAS (HQ) . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com



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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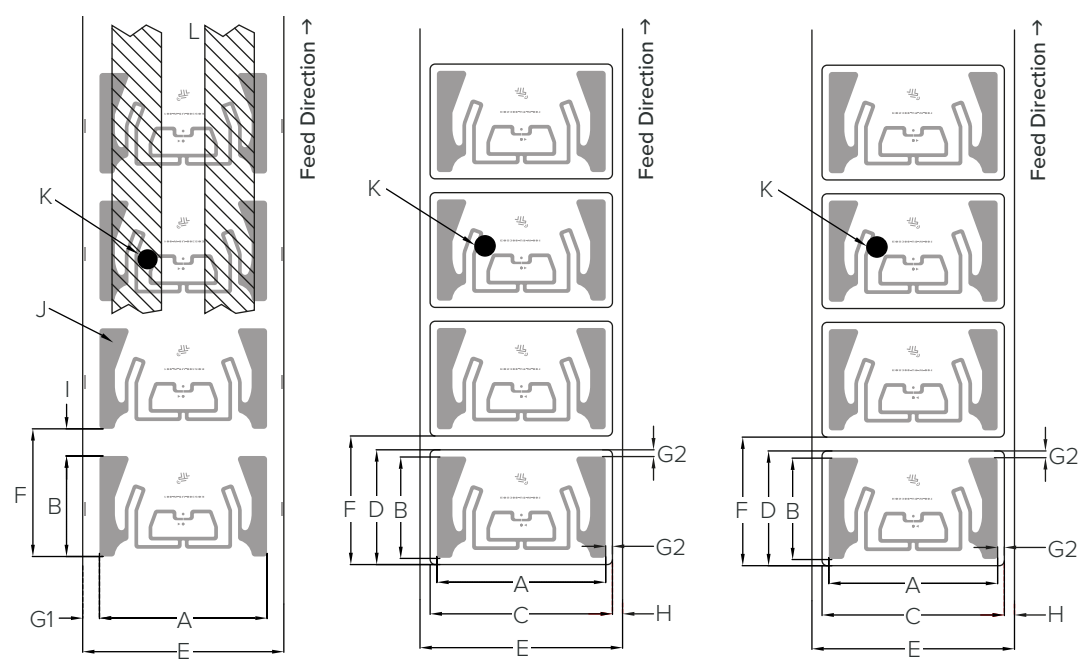


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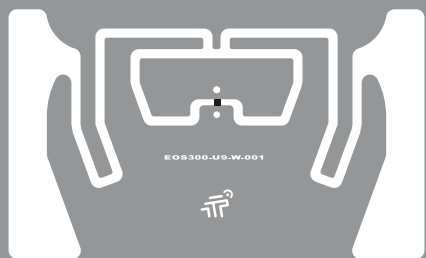
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Product Specifications

Mechanical Dimensions



| | Dry (reverse) | Wet (reverse) | Paper-face (reverse) |
|---------------------|---|--------------------------------|--------------------------------|
| Product Code | 3000000193 | 3000000194 | 3000000195 |
| Antenna Size | A x B 50 x 30 mm / 1.97 x 1.18 in | 50 x 30 mm / 1.97 x 1.18 in | 50 x 30 mm / 1.97 x 1.18 in |
| Finish Size | C x D - / - | 54 x 34 mm / 2.13 x 1.34 in | 54 x 34 mm / 2.13 x 1.34 in |
| Web Width | E 60.00 ± 1 mm / 2.362 ± 0.04 in | 60.00 ± 1 mm / 2.362 ± 0.04 in | 60.00 ± 1 mm / 2.362 ± 0.04 in |
| Pitch | F 38.10 ± 0.2 mm / 1.500 ± 0.01 in | 38.10 ± 1 mm / 1.500 ± 0.04 in | 38.10 ± 1 mm / 1.500 ± 0.04 in |
| Antenna to Web Edge | G1 5.0 ± 1 mm / 0.197 ± 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 8.10 mm / 0.319 in | - | - |
| Converting Spot | J 4.61 x 30.00 mm / 0.181 x 1.181 in, antenna section can be used | | |
| 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 (reverse) | Wet (reverse) | Paper-face (reverse) |
|-----------------------|--|--|---|
| Product Code | 3000000193 | 3000000194 | 3000000195 |
| 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 | 308 mm / 12.13 in | 340 mm / 13.39 in | 207 mm / 8.15 in |
| Unwinding Direction | Inlay on outside of roll | Inlay on outside of roll | Inlay on outside of roll |
| Standard Roll Size | 18 000 | 13 000 | 3 000 |
| 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 | 26.0 x 26.0 x 37.0 cm / 10.24 x 10.24 x 14.57 in |
| Roll/Box | 2 | 2 | 5 |
| Inlays/Box | 36 000 | 26 000 | 15 000 |
| Box Gross Weight | 9.52 kg / 20.99 lbs | 12.05 kg / 26.58 lbs | 10.1 kg / 22.26 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 | 1 728 000 | 1 248 000 | 540 000 |
| Pallet Gross Weight | 482 kg / 1 063 lbs | 604 kg / 1 332 lbs | 388 kg / 856 lbs |

Contact:

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