



EOS-430 U9

TAGEOS

## Datasheet

### Streamlined, Versatile Inlay for Global Retail and General Industrial Applications



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 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 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 U9 complies with ARC specifications F, I, L, O, Q, R, Y2, W5 and 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 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<br>ISO 18000-63 |

#### Application Areas

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



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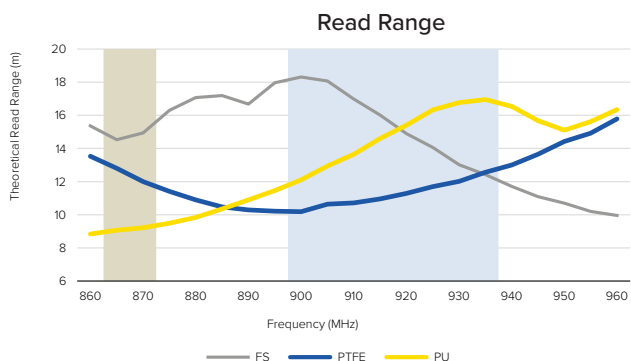


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## Technical Overview

|                       | Dry Inlay  | Wet Inlay  | Paper-face Inlay                                 |
|-----------------------|--|--|--|
| Product Code          | 4300000030                                       | 4300000035                                       | 4300000031                                       |
| Antenna Size          | 70 x 8 mm<br>2.76 x 0.31 in                      | 70x 8 mm<br>2.76 x 0.31 in                       | 70 x 8 mm<br>2.76 x 0.31 in                      |
| Die-cut Size          | -<br>-   | 74 x 12 mm<br>2.91 x 0.47 in                     | 74 x 12 mm<br>2.91 x 0.47 in                     |
| Web Width             | 80 ± 1 mm<br>3.15 ± 0.04 in                      | 80 ± 1 mm<br>3.15 ± 0.04 in                      | 80 ± 1 mm<br>3.15 ± 0.04 in                      |
| Pitch                 | 16 ± 0.2 mm<br>0.63 ± 0.01 in                    | 16 ± 1 mm<br>0.63 ± 0.04 in                      | 16 ± 1 mm<br>0.63 ± 0.04 in                      |
| ARC Approvals         | F, I, L, O, Q, R, Y2, W5, W6                     | F, I, L, O, Q, R, Y2, W5, W6                     | F, I, L, O, Q, R, Y2, W5, W6                     |
| FSC® Certification    | -  | -  | -  |
| 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<br>@20% to 90% RH | -40°C / +85°C   -40°F / +185°F<br>@20% to 90% RH | -40°C / +85°C   -40°F / +185°F<br>@20% to 90% RH |
| Shelf Life            | Life 2 years @ +25°C/40%RH                       | Life 2 years @ +25°C/40%RH                       | Life 2 years @ +25°C/40%RH                       |
| Final Inspection      | 100% tested                                      | 100% tested                                      | 100% tested                                      |



### Contact us:

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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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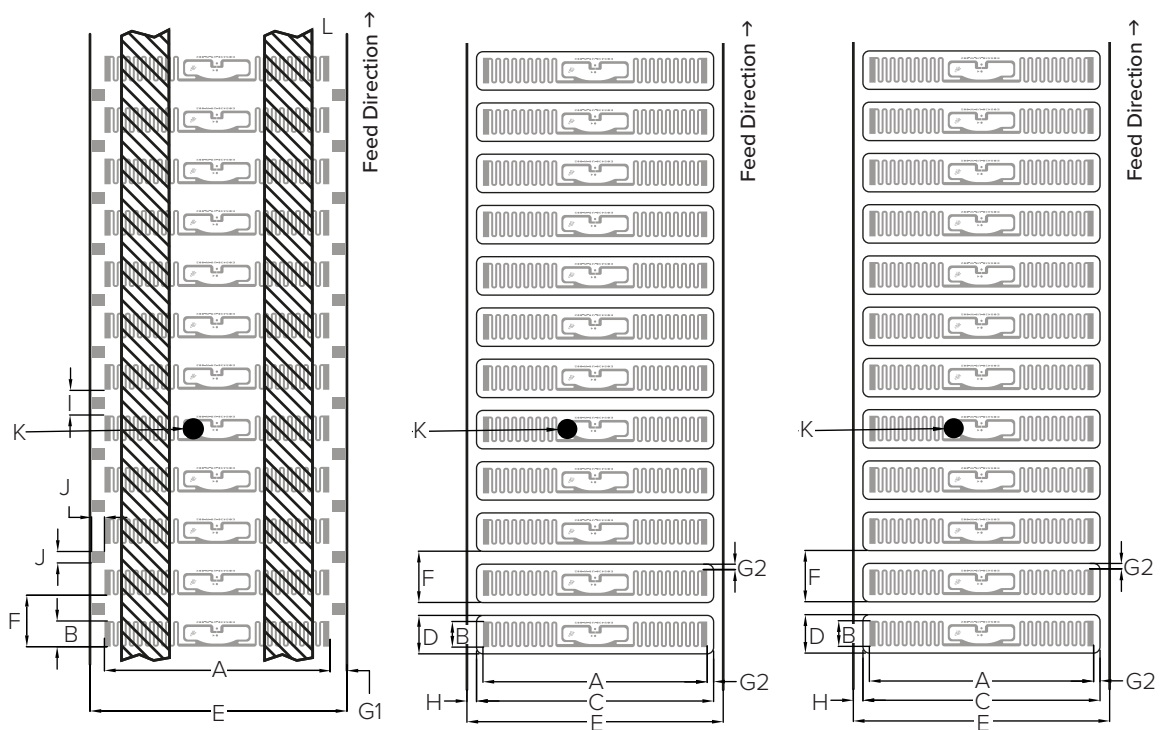


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## Product Specifications

### 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 ± 0.02 mm / 0.63 ± 0.01 in | 16 ± 1 mm / 0.63 ± 0.04 in  | 16 ± 1 mm / 0.63 ± 0.04 in  |
| Antenna to Web Edge | G1    | 5.5 ± 1 mm / 0.22 ± 0.04 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                          |



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## 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 (-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 x 17 cm /<br>15.5 x 15.3 x 6.7 in  | 39.5 x 39 x 17 cm /<br>15.5 x 15.3 x 6.7 in  | 26 x 26 x 37 cm /<br>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 /<br>47.2 x 31.5 x 59.4 in | 120 x 80 x 151 cm /<br>47.2 x 31.5 x 59.4 in | 120 x 80 x 126 cm /<br>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                             |

### Contact us:

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**RoHS**  
compliant



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