



EOS-430 U9

TAGEOS

Datasheet

Streamlined, Versatile Solution for Global Retail and General Industrial Applications



TAGEOS

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 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 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 was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab. EOS-430 U9 complies with ARC specifications F, G, I, J, K, L, N, O, Q, R, Y, B1, W1, W2, W3, W4, W5 and W6.

Like all Tageos' RFID products, EOS-430 U9 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 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 - ISO 18000-6c |

Application Areas

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



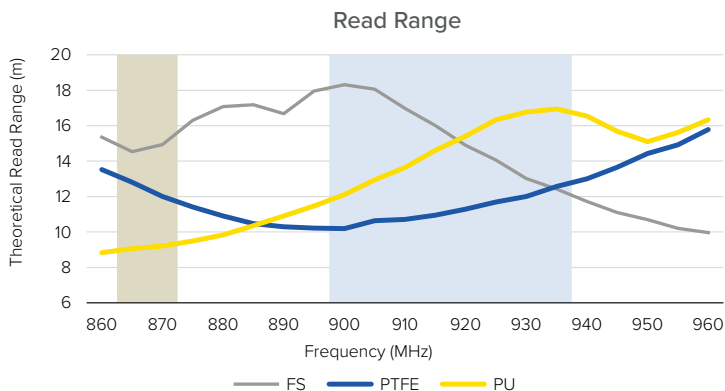


EOS-430 U9

T A G E O S

Technical Overview

| | Dry | Paper-face |
|-----------------------|--|--|
| Product Code | 4300000055 | 4300000053 |
| Antenna Size | 70 x 8 mm 2.76 x 0.31 in | 70 x 8 mm 2.76 x 0.31 in |
| Finish Size | - - | 74 x 17 mm 2.91 x 0.67 in |
| Web Width | 80.0 ± 1 mm 3.150 ± 0.04 in | 80.0 ± 1 mm 3.150 ± 0.04 in |
| Pitch | 20.00 ± 0.2 mm 0.787 ± 0.01 in | 20.00 ± 1 mm 0.787 ± 0.04 in |
| Antenna Material | Aluminium | Aluminium |
| Front Face | - | Paper TT |
| Inlay Substrate | PET clear | PET clear |
| Inlay Adhesive | - | Permanent |
| Liner | - | Paper |
| Operating Temperature | -40°C / +85°C -40°F / +185°F | -40°C / +85°C -40°F / +185°F |
| Final Inspection | 100% tested | 100% tested |
| ARC Approvals | F, G, I, J, K, L, N, O, Q, R, Y, B1; W1, W2, W3, W4, W5, W6 | F, G, I, J, K, L, N, O, Q, R, Y, B1; W1, W2, W3, W4, W5, W6 |



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.

© 2023 Tageos All rights reserved. The pictures and illustrations found on this document are for illustration purposes only, and do not necessarily represent the exact products. Tageos is a registered trademark. All other trademarks are the property of their respective owners. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use.

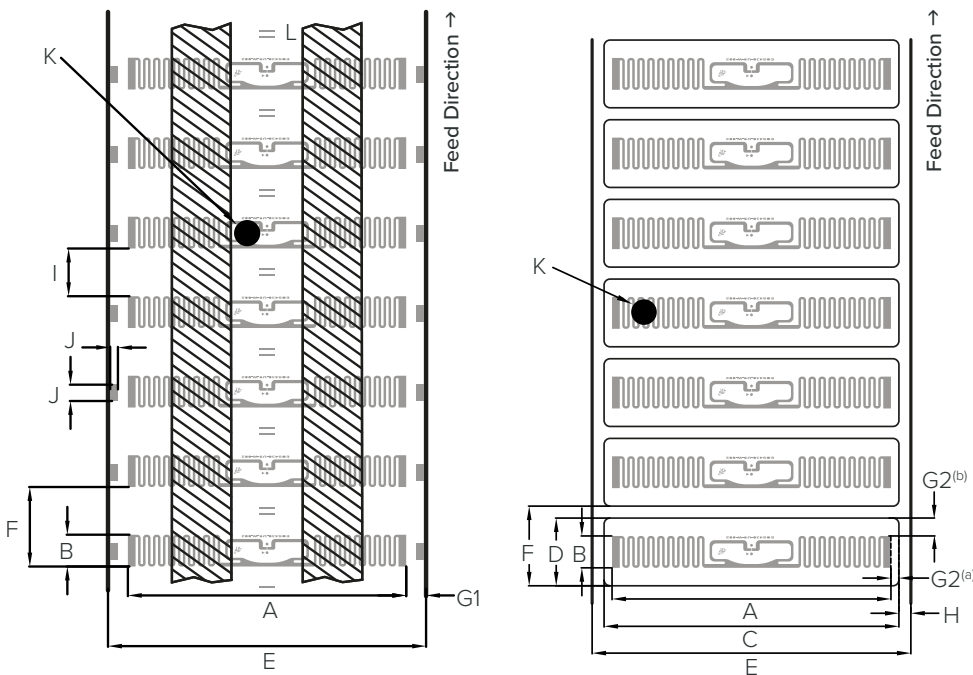


EOS-430 U9

TAGEOS

Product Specifications

Mechanical Dimensions



| | Dry | Paper-face |
|---------------------|-------------------------------------|---|
| Product Code | 4300000055 | 4300000053 |
| 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 |
| Finish Size | C x D - | 74 x 17 mm / 2.91 x 0.67 in |
| Web Width | E 80.0 ± 1 mm / 3.150 ± 0.04 in | 80.0 ± 1 mm / 3.150 ± 0.04 in |
| Pitch | F 20.00 ± 0.2 mm / 0.787 ± 0.01 in | 20.00 ± 1 mm / 0.787 ± 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 ^(a) 4.5 ± 1 mm / 0.177 ± 0.04 in ^(b) |
| Die-cut to Web Edge | H - | 3.5 ± 1 mm / 0.138 ± 0.04 in |
| Antenna Gap | I 12.00 mm / 0.473 in | - |
| Converting Spot | J 2.00 x 4.10 mm / 0.079 x 0.161 in | - |
| Bad Mark | K Ø 6.0 mm / 0.236 in | Ø 6.0 mm / 0.236 in |
| Interleaves | L Yes | No |



EOS-430 U9

TAGEOS

Packing Details

| | Dry | Paper-face |
|-----------------------|--|---|
| Product Code | 4300000055 | 4300000053 |
| Delivery Format | Roll (single row) | Roll (single row) |
| Core Inner Diameter | 76 mm / 2.99 in | 76 mm / 2.99 in |
| Roll Outer Diameter | 289 mm / 11.38 in | 196 mm / 7.72 in |
| Unwinding Direction | Inlay on outside of roll | Inlay on outside of roll |
| Standard Roll Size | 30 000 | 5 000 |
| Min. Guar. Yield/Roll | 98.5% | 98.5% |
| Box Dimensions | 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 | 4 |
| Inlays/Box | 30 000 | 20 000 |
| Box Gross Weight | 5.30 kg / 11.69 lbs | 8.62 kg / 19.00 lbs |
| Pallet Dimensions | 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 | 36 |
| Inlays/Pallet | 1 440 000 | 720 000 |
| Pallet Gross Weight | 279 kg / 615 lbs | 335 kg / 739 lbs |

Contact:

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



© 2023 Tageos All rights reserved. The pictures and illustrations found on this document are for illustration purposes only, and do not necessarily represent the exact products. Tageos is a registered trademark. All other trademarks are the property of their respective owners. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use.