

EOS-430 M730

TAGEOS

Datasheet

Streamlined, Versatile Solution for Global Retail and General Industrial Applications



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With its compact, streamlined antenna design and the excellent global RF performance of its innovative IC, the EOS-430 Impinj M730 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 for solutions that will satisfy the needs of the retail industry as well as many general industrial segments.

Equipped with 128-bit EPC memory, the Impinj M730 RAIN RFID chip provides high performance, fast inventory capability, and advanced features for nextgeneration, universal RAIN RFID tags.

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

EOS-430 M730 complies with ARC specifications F, G, I, J, K, L, N, O, Q, R, Y, Y2, W1, W2, W3, W4, W5 and W6.

Like all Tageos' RFID products, EOS-430 M730 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: | Impinj M730 |
| 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 18000-6c |

Application Areas

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



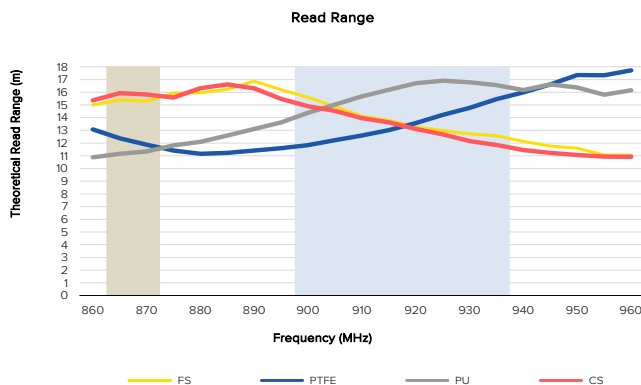


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Technical Overview

| | Dry Inlay | Wet Inlay | Paper-face Inlay |
|-----------------------|--|--|--|
| Product Code | 4300000017 | 4300000018 | 4300000019 |
| Antenna Size | 70 x 8 mm 2.76 x 0.31 in | 70x 8 mm 2.76 x 0.31 in | 70 x 8 mm 2.76 x 0.31 in |
| Die-cut Size | - | 74 x 12 mm 2.91 x 0.47 in | 74 x 12 mm 2.91 x 0.47 in |
| Web Width | 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 | 16 ± 0.5 mm 0.63 ± 0.02 in | 16 ± 0.5 mm 0.63 ± 0.02 in | 16 ± 0.5 mm 0.63 ± 0.02 in |
| 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 | -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 | F, G, I, J, K, L, N, O, Q, R, Y, Y2; W1, W2, W3, W4, W5, W6 | F, G, I, J, K, L, N, O, Q, R, Y, Y2; W1, W2, W3, W4, W5, W6 | F, G, I, J, K, L, N, O, Q, R, Y, Y2; W1, W2, W3, W4, W5, W6 |



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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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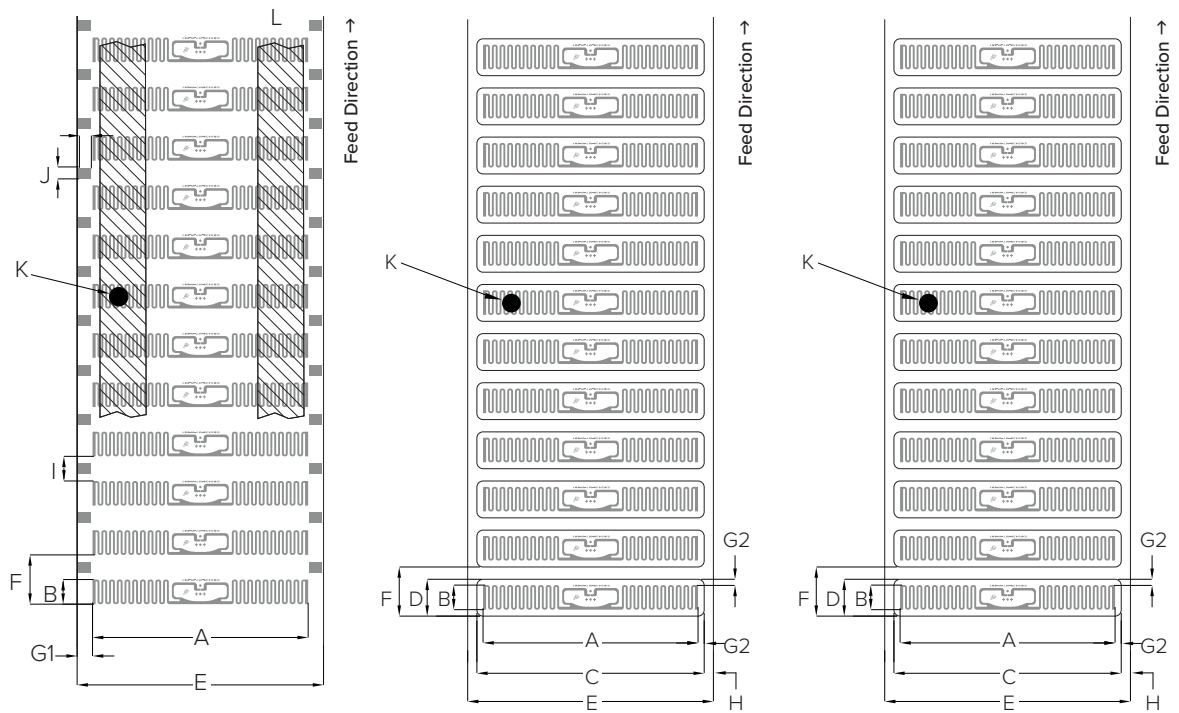


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Product Specifications

Mechanical Dimensions



| | Dry Inlay | Wet Inlay | Paper-face Inlay |
|---------------------|----------------------------------|------------------------------|------------------------------|
| Product Code | 4300000017 | 4300000018 | 4300000019 |
| 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 ± 0.5 mm / 0.63 ± 0.02 in | 16 ± 0.5 mm / 0.63 ± 0.02 in | 16 ± 0.5 mm / 0.63 ± 0.02 in |
| Antenna to Web Edge | G1 5 ± 1 mm / 0.2 ± 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 4 x 3.6 mm / 0.16 x 0.14 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 | 4300000017 | 4300000018 | 4300000019 |
| 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 | 291 mm / 11.46 in | 351 mm / 13.82 in | 179 mm / 7.05 in |
| Unwinding Direction | Label on outside of roll | Label on outside of roll | Label on outside of roll |
| Standard Roll Size | 38 000 | 33 000 | 5 000 |
| Min. Guar. Yield/Roll | 98.5% | 98.5% | 98.5% |
| Box Dimensions | 39.5 x 39 x 17 cm / 15.56 x 15.35 x 6.69 in | 39.5 x 39 x 17 cm / 15.56 x 15.35 x 6.69 in | 26 x 26 x 37 cm / 10.24 x 10.24 x 14.57 in |
| Roll/Box | 1 | 1 | 4 |
| Inlays/Box | 38 000 | 33 000 | 20 000 |
| Box Gross Weight | 5.36 kg / 11.82 lbs | 7.77 kg / 17.13 lbs | 6.52 kg / 14.37 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 | 1 824 000 | 1 584 000 | 720 000 |
| Pallet Gross Weight | 282 kg / 622 lbs | 398 kg / 877 lbs | 260 kg / 573 lbs |

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