

EOS-261 M830

T A G E O S

Datasheet



T A G E O S

Compact and High-Performing Solution for Retail and Beyond

The EOS-261 M830 inlay combines a remarkably small footprint with further enhanced performance on various materials due to the latest generation IC technology. It is an optimum solution for many item-level applications in retail (apparel, accessories, consumer electronics, home goods, toys, ...), logistics, automotive and industrial manufacturing.

EOS-261 M830 is based on Impinj's M830 RAIN RFID IC with 128-bit EPC memory. The IC combines improved read sensitivity (-1.5 dB, compared to M730), AutoTune™ performance, and backscatter efficiency with a size reduction to support Tageos' sustainability approach. As a result, the IC sets standards in solutions like high-speed inventory counting, loss prevention with frictionless self-checkout, and embedded tagging with seamless product returns.

EOS-261 M830 is available in dry, wet, and paper-face delivery formats.

Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab. EOS-261 M830 complies with ARC specifications F, I, O, Q, R, W5, W6, Y2.

Like all Tageos' RFID inlays and tags, EOS-261 M830 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: | Impinj M830 |
| 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
- Pharma & Healthcare
- Supply Chain Management



The mark of responsible forestry
FSC® C166692



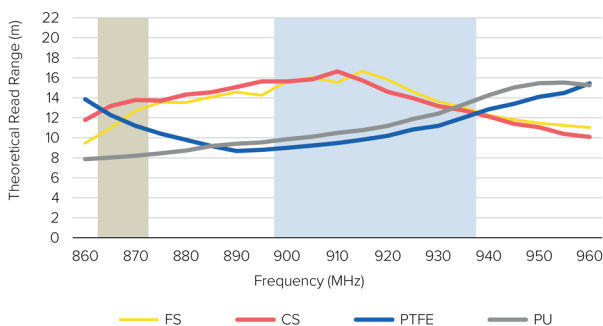
EOS-261 M830

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Technical Overview

| | Dry | Wet | Paper-face |
|-----------------------|--|--|--|
| Product Code | 2600000065 | 2600000066 | 2600000067 |
| Antenna Size | 44 x 20 mm 1.73 x 0.79 in | 44 x 20 mm 1.73 x 0.79 in | 44 x 20 mm 1.73 x 0.79 in |
| Finish Size | - | 47 x 23 mm 1.85 x 0.91 in | 47 x 23 mm 1.85 x 0.91 in |
| Web Width | 50.00 ± 1 mm 1.969 ± 0.04 in | 50.00 ± 1 mm 1.969 ± 0.04 in | 50.00 ± 1 mm 1.969 ± 0.04 in |
| Pitch | 26.04 ± 0.2 mm 1.025 ± 0.01 in | 26.04 ± 1 mm 1.025 ± 0.04 in | 26.04 ± 1 mm 1.025 ± 0.04 in |
| ARC Approval | F, I, O, Q, R, W5, W6, Y2 | F, I, O, Q, R, W5, W6, Y2 | F, I, O, Q, R, W5, W6, Y2 |
| 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 |

Read Range



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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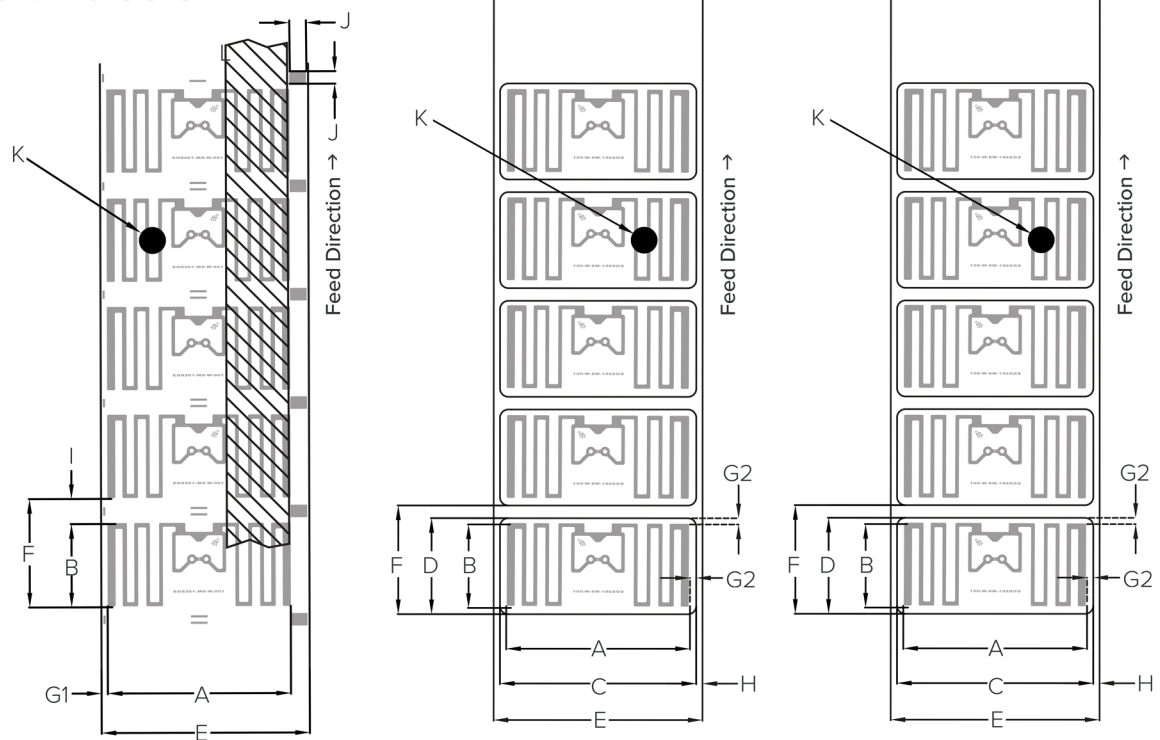


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TAGEOS

Product Specifications

Mechanical Dimensions



| | Dry | Wet | Paper-face |
|---------------------|--|--|--|
| Product Code | 2600000065 | 2600000066 | 2600000067 |
| Antenna Size | A x B 44 x 20 mm / 1.73 x 0.79 in | 44 x 20 mm / 1.73 x 0.79 in | 44 x 20 mm / 1.73 x 0.79 in |
| Finish Size | C x D - / - | 47 x 23 mm / 1.85 x 0.91 in | 47 x 23 mm / 1.85 x 0.91 in |
| Web Width | E 50.00 ± 1 mm / 1.969 ± 0.04 in | 50.00 ± 1 mm / 1.969 ± 0.04 in | 50.00 ± 1 mm / 1.969 ± 0.04 in |
| Pitch | F 26.04 ± 0.2 mm / 1.025 ± 0.01 in | 26.04 ± 1 mm / 1.025 ± 0.04 in | 26.04 ± 1 mm / 1.025 ± 0.04 in |
| Antenna to Web Edge | G1 1.5 ± 1 mm / 0.059 ± 0.04 in | - | - |
| Antenna to Die-cut | G2 - | 1.5 ± 1 mm / 0.059 ± 0.04 in | 1.5 ± 1 mm / 0.059 ± 0.04 in |
| Die-cut to Web Edge | H - | 1.5 ± 1 mm / 0.059 ± 0.04 in | 1.5 ± 1 mm / 0.059 ± 0.04 in |
| Antenna Gap | I 6.04 mm / 0.238 in | - | - |
| Converting Spot | J 4.00 x 3.00 mm / 0.157 x 0.118 in | - | - |
| Bad Mark | K Ø 6.0 mm / 0.236 in, bad inlays deactivated | Ø 6.0 mm / 0.236 in, bad inlays deactivated | Ø 6.0 mm / 0.236 in, bad inlays deactivated |
| Interleaves | L Yes | No | No |



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Packing Details

| | Dry | Wet | Paper-face |
|-----------------------|--|--|---|
| Product Code | 2600000065 | 2600000066 | 2600000067 |
| 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 | 317 mm / 12.48 in | 340 mm / 13.39 in | 199 mm / 7.83 in |
| Unwinding Direction | Inlay on outside of roll | Inlay on outside of roll | Inlay on outside of roll |
| Standard Roll Size | 28 000 (-0% +1.5%) | 19 000 (-0% +1.5%) | 4 000 (-0% +1.5%) |
| Min. Guar. Yield/Roll | 99% | 99% | 99% |
| 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 | 6 |
| Inlays/Box | 56 000 | 38 000 | 24 000 |
| Box Gross Weight | 8.1 kg / 17.85 lbs | 10.53 kg / 23.21 lbs | 9.54 kg / 21.04 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 | 2 688 000 | 1 824 000 | 864 000 |
| Pallet Gross Weight | 414 kg / 913 lbs | 530 kg / 1 169 lbs | 368 kg / 811 lbs |



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