

EOS-261 M830

# T A G E O S

## Datasheet

### 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 optimal solution for many item-level applications in retail (apparel, accessories, consumer electronics, home goods, toys, etc.), logistics, automotive and industrial manufacturing.

It is available in dry, wet, and paper-face delivery formats with narrow edge leading antenna alignment.

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



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embedded tagging with seamless product returns.

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-261 M830 complies with ARC specifications F, I, 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:	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



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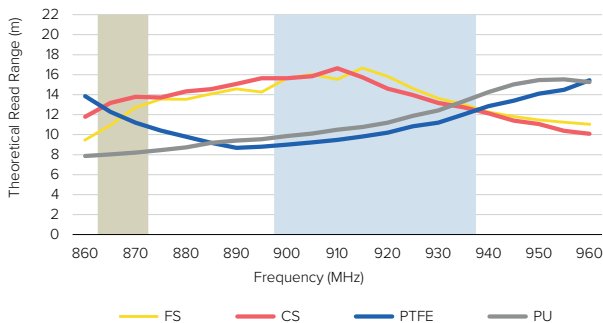
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### Technical Overview

	Dry	Wet	Paper-face
Product Code	2600000099	2600000100	2600000101
Antenna Size	20 x 44 mm 0.79 x 1.73 in	20 x 44 mm 0.79 x 1.73 in	20 x 44 mm 0.79 x 1.73 in
Finish Size	-	23 x 47 mm 0.91 x 1.85 in	23 x 47 mm 0.91 x 1.85 in
Web Width	35.00 ± 1 mm 1.378 ± 0.04 in	35.00 ± 1 mm 1.378 ± 0.04 in	35.00 ± 1 mm 1.378 ± 0.04 in
Pitch	50.01 ± 0.2 mm 1.969 ± 0.01 in	50.01 ± 1 mm 1.969 ± 0.04 in	50.01 ± 1 mm 1.969 ± 0.04 in
ARC Approval	F, I, O, Q, R, Y2, W5, W6	F, I, O, Q, R, Y2, W5, W6	F, I, O, Q, R, Y2, W5, W6
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



**Contact:**

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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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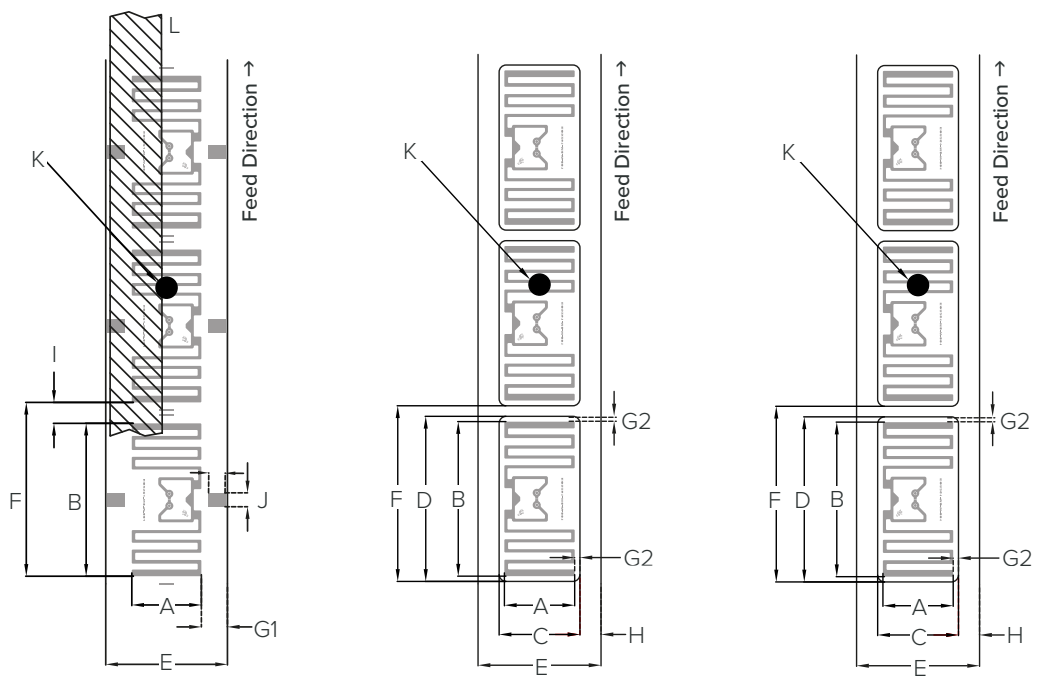


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# Product Specifications

## Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	2600000099	2600000100	2600000101
Antenna Size	A x B 20 x 44 mm / 0.79 x 1.73 in	20 x 44 mm / 0.79 x 1.73 in	20 x 44 mm / 0.79 x 1.73 in
Finish Size	C x D - / -	23 x 47 mm / 0.91 x 1.85 in	23 x 47 mm / 0.91 x 1.85 in
Web Width	E 35.00 ± 1 mm / 1.378 ± 0.04 in	35.00 ± 1 mm / 1.378 ± 0.04 in	35.00 ± 1 mm / 1.378 ± 0.04 in
Pitch	F 50.01 ± 0.2 mm / 1.969 ± 0.01 in	50.01 ± 1 mm / 1.969 ± 0.04 in	50.01 ± 1 mm / 1.969 ± 0.04 in
Antenna to Web Edge	G1 7.5 ± 1 mm / 0.295 ± 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 -	6.0 ± 1 mm / 0.236 ± 0.04 in	6.0 ± 1 mm / 0.236 ± 0.04 in
Antenna Gap	I 6.03 mm / 0.237 in	-	-
Converting Spot	J 5.00 x 4.00 mm / 0.197 x 0.157 in	-	-
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	Wet	Paper-face
Product Code	2600000099	2600000100	2600000101
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	340 mm / 13.39 in	342 mm / 13.46 in	196 mm / 7.72 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	17 000 (-0% +1.5%)	10 000 (-0% +1.5%)	2 000 (-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	3	3	8
Inlays/Box	51 000	30 000	16 000
Box Gross Weight	9.49 kg / 20.92 lbs	8.94 kg / 19.72 lbs	6.54 kg / 14.42 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	2 448 000	1 440 000	576 000
Pallet Gross Weight	480 kg / 1 058 lbs	454 kg / 1 001 lbs	260 kg / 573 lbs

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