



EOS-430 M830

TAGEOS

Datasheet

Versatile and High-Performance Solution for Retail and Beyond

EOS-430 M830 global inlay combines moderate size with outstanding robust performance on a wide range of surfaces. This inlay is the product of choice for a wide range of applications such as retail, food and quick service restaurants, as well as logistics and general industrial segments. Hence, it is ideally suited for inventory visibility and item-level tagging.

EOS-430 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.



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EOS-430 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-430 M830 complies with ARC specifications F, I, L, O, Q, R, Y2, W5 and W6.

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

Application Areas

- Apparel
- Inventory Visibility
- Item Level Tagging
- Logistics
- Supply Chain Management



The mark of responsible forestry
FSC® C166692

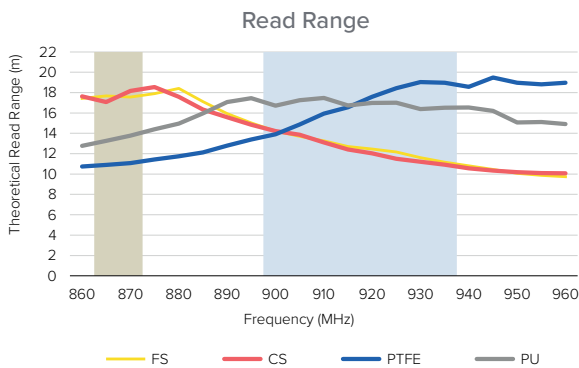


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Technical Overview

	Dry	Wet	Paper-face
Product Code	4300000075	4300000076	4300000077
Antenna Size	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
Finish Size	-	74 x 12 mm 2.91 x 0.47 in	74 x 12 mm 2.91 x 0.47 in
Web Width	80.00 ± 1 mm 3.150 ± 0.04 in	80.00 ± 1 mm 3.150 ± 0.04 in	80.00 ± 1 mm 3.150 ± 0.04 in
Pitch	16.00 ± 0.2 mm 0.630 ± 0.01 in	16.00 ± 1 mm 0.630 ± 0.04 in	16.00 ± 1 mm 0.630 ± 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	-	PET clear	Paper TT
Inlay Substrate	PET Clear	PET Clear	PET Clear
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 Time	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



Contact:

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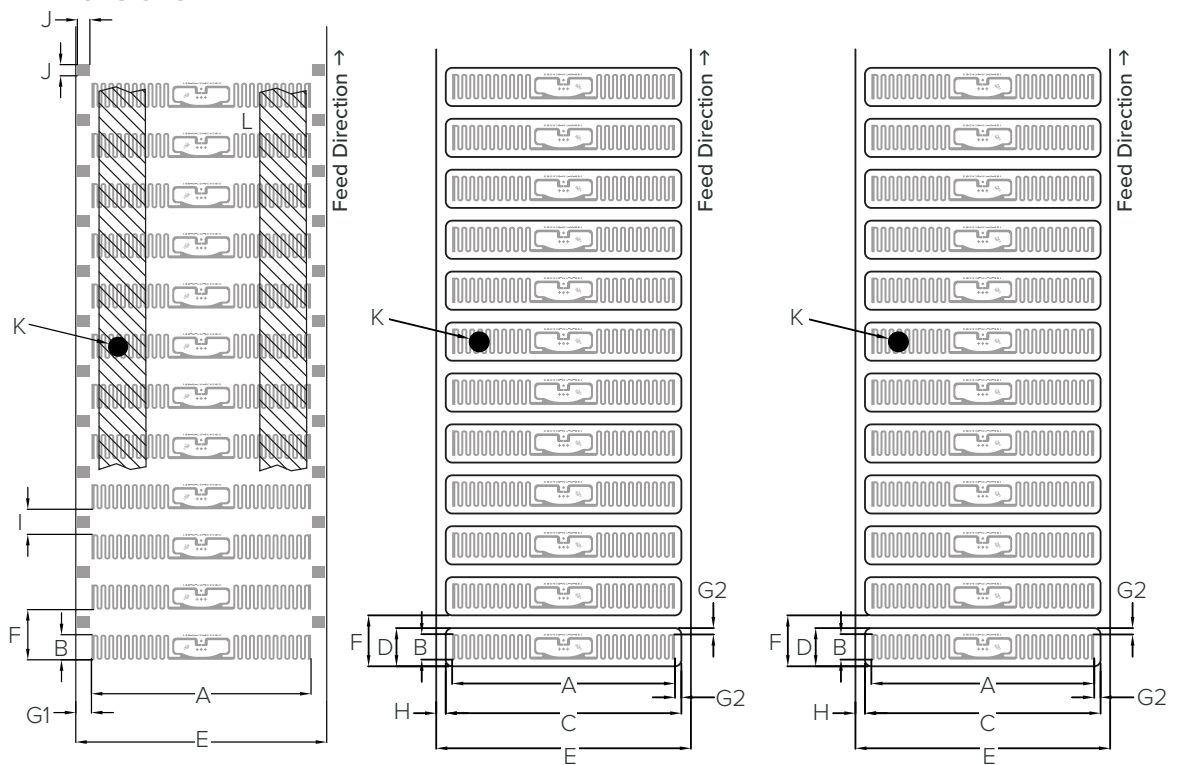
Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices to 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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Product Specifications

Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	4300000075	4300000076	4300000077
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
Finish 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 80.00 ± 1 mm / 3.150 ± 0.04 in	80.00 ± 1 mm / 3.150 ± 0.04 in	80.00 ± 1 mm / 3.150 ± 0.04 in
Pitch	F 16.00 ± 0.2 mm / 0.630 ± 0.01 in	16.00 ± 1 mm / 0.630 ± 0.04 in	16.00 ± 1 mm / 0.630 ± 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	2.0 ± 1 mm / 0.079 ± 0.04 in
Die-cut to Web Edge	H -	3.0 ± 1 mm / 0.118 ± 0.04 in	3.0 ± 1 mm / 0.118 ± 0.04 in
Antenna Gap	I 8.00 mm / 0.315 in	-	-
Converting Spot	J 4.00 x 3.60 mm / 0.157 x 0.142 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	4300000075	4300000076	4300000077
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	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	38 000 (-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 39.0 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	1	1	4
Inlays/Box	38 000	33 000	20 000
Box Gross Weight	6.07 kg / 13.38 lbs	8.48 kg / 18.70 lbs	7.21 kg / 15.90 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	316 kg / 697 lbs	432 kg / 952 lbs	285 kg / 628 lbs

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