

FOS-430 M830

# TACEOS

### 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<sup>TM</sup> 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-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









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#### **Technical Overview**

Dry	Wet	Paper-face
430000075	430000076	430000077
70 x 8 mm	70 x 8 mm	70 x 8 mm
2.76 x 0.31 in	2.76 x 0.31 in	2.76 x 0.31 in
-	74 x 12 mm	74 x 12 mm
-	2.91 x 0.47 in	2.91 x 0.47 in
80.00 ± 1 mm	80.00 ± 1 mm	80.00 ± 1 mm
3.150 ± 0.04 in	3.150 ± 0.04 in	3.150 ± 0.04 in
16.00 ± 0.2 mm	16.00 ± 1 mm	16.00 ± 1 mm
$0.630 \pm 0.01$ in	0.630 ± 0.04 in	0.630 ± 0.04 in
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
-	-	-
Aluminium	Aluminium	Aluminium
-	PET clear	Paper TT
PET Clear	PET Clear	PET Clear
-	permanent	permanent
-	Paper	Paper
-40°C / +85°C   -40°F / +185°F	-40°C / +85°C   -40°F / +185°F	-40°C / +85°C   -40°F / +185°F
@20% to 90% RH	@20% to 90% RH	@20% to 90% RH
2 years @ +25°C/40%RH	2 years @ +25°C/40%RH	2 years @ +25°C/40%RH
100% tested	100% tested	100% tested
	4300000075  70 × 8 mm  2.76 × 0.31 in  80.00 ± 1 mm  3.150 ± 0.04 in  16.00 ± 0.2 mm  0.630 ± 0.01 in  F, I, L, O, Q, R, Y2, W5, W6  - Aluminium  - PET Clear 40°C / +85°C   -40°F / +185°F  @20% to 90% RH  2 years @ +25°C/40%RH	430000075  430000075  70 x 8 mm  70 x 8 mm  2.76 x 0.31 in  -  74 x 12 mm  2.91 x 0.47 in  80.00 ± 1 mm  3.150 ± 0.04 in  16.00 ± 0.2 mm  0.630 ± 0.01 in  74 x 12 mm  0.630 ± 0.04 in  F, I, L, O, Q, R, Y2, W5, W6  -  Aluminium  Aluminium  PET clear  PET Clear  PET Clear  PET Clear  PET Clear  Per Clear









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.

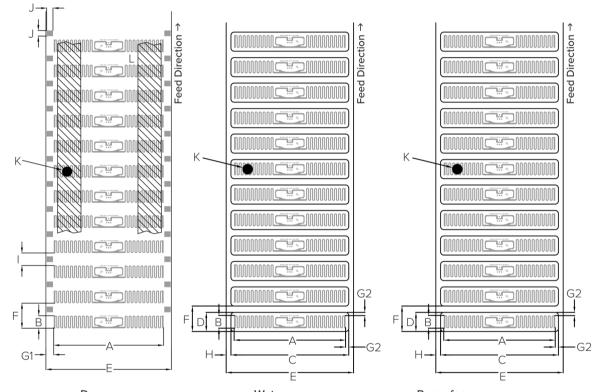
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### TAGEOS

# **Product Specifications**

#### **Mechanical Dimensions**



		Dry	Wet	Paper-face
Product Code		430000075	430000076	430000077
Antenna Size	A×E	3 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×E	) -	74 x 12 mm / 2.91 x 0.47 in	74 x 12 mm / 2.91 x 0.47 in
Web Width	Е	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	$16.00 \pm 0.2 \; mm  /  0.630 \pm 0.01  in$	16.00 ± 1 mm / 0.630 ± 0.04 in	16.00 ± 1 mm / 0.630 ± 0.04 in
Antenna to Web Edge	e 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	Н	-	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	0 6.0 mm / 0.236 in	0 6.0 mm / 0.236 in	0 6.0 mm / 0.236 in
Interleaves	L	Yes	No	No



# TAGEOS

### **Packing Details**

	Dry	Wet	Paper-face
Product Code	4300000075	430000076	430000077
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 /	39.5 x 39.0 x 17.0 cm /	26.0 x 26.0 x 37.0 cm /
	15.56 x 15.35 x 6.69 in	15.56 x 15.35 x 6.69 in	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 /	120 x 80 x 151 cm /	120 x 80 x 126 cm /
	47.2 x 31.5 x 59.4 in	47.2 x 31.5 x 59.4 in	47.2 x 31.5 x 49.6 in
Boxes/Pallet	48	48	36
Inlays/Pallet	1824 000	1 584 000	720 000
Pallet Gross Weight	316 kg / 697 lbs	432 kg / 952 lbs	285 kg / 628 lbs





