

EOS-340 M830

T A G E O S

Datasheet



T A G E O S

Reliable Omnidirectional Reading in Industrial Environments

The EOS-340 M830 is engineered for omnidirectional reading, enabling reliable tag detection even when items such as pallets or containers are not perfectly oriented toward a reader. This capability makes it particularly valuable in automotive, warehouse, and logistics environments where item positioning can vary. The inlay is optimized for challenging materials and items such as pallets, fiberglass, and heavy plastics, delivering consistent performance across complex industrial workflows.

EOS-340 M830 is available in dry, wet, and paper-face delivery formats.

The EOS-340 M830 is based on Impinj's M830 RAIN RFID IC with 128-bit EPC memory. It combines enhanced read sensitivity, AutoTune™ performance, and backscatter efficiency with Impinj Gen2X enhancements to the radio and logical layers of

the RAIN radio standard that speed inventory counts, increase tag read range, and declutter the tag environment. 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.

Tageos maintains ARC Quality Certification for all its manufacturing sites worldwide and is one of the first companies to be certified by Auburn University's RFID Lab since 2020.

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

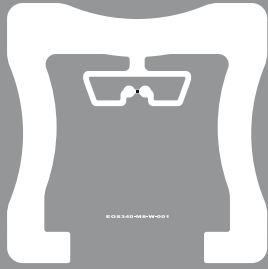
IC:	Impinj M830
EPC/User Memory:	128 bit / - bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz
Protocol:	EPC Class 1 Gen 2 - ISO 18000-63

Application Areas

- Inventory Visibility
- Item Level Tagging
- Parts Management
- Supply Chain Management



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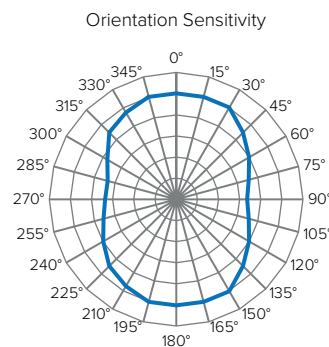
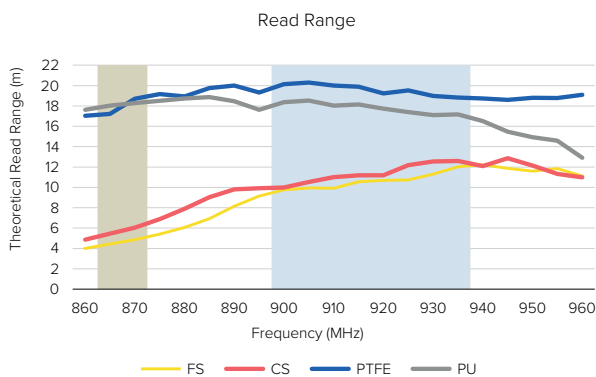


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Technical Overview

	Dry	Wet	Paper-face
Product Code	3400000018	3400000019	3400000020
Antenna Size	50 x 50 mm 1.97 x 1.97 in	50 x 50 mm 1.97 x 1.97 in	50 x 50 mm 1.97 x 1.97 in
Finish Size	-	53 x 53 mm 2.09 x 2.09 in	53 x 53 mm 2.09 x 2.09 in
Web Width	60.00 ± 1 mm 2.362 ± 0.04 in	60.00 ± 1 mm 2.362 ± 0.04 in	60.00 ± 1 mm 2.362 ± 0.04 in
Pitch	57.15 ± 0.2 mm 2.250 ± 0.01 in	57.15 ± 1 mm 2.250 ± 0.04 in	57.15 ± 1 mm 2.250 ± 0.04 in
ARC Approval	-	-	-
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

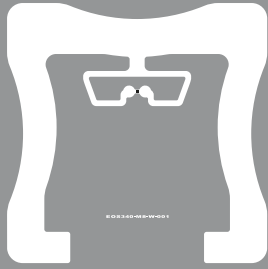


Contact:

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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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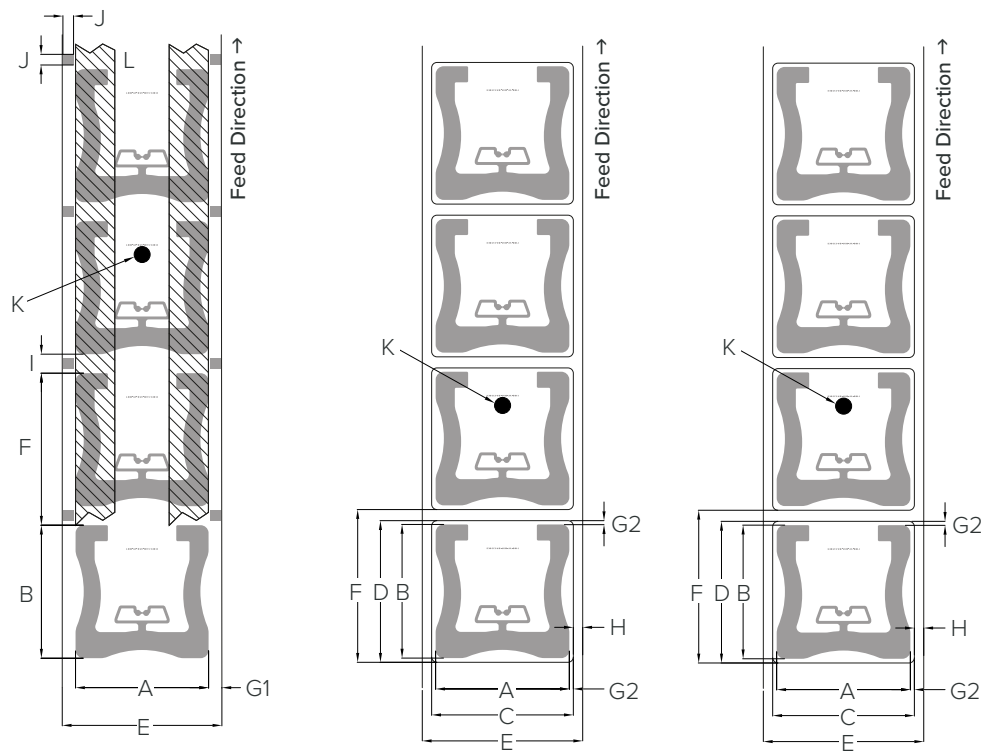


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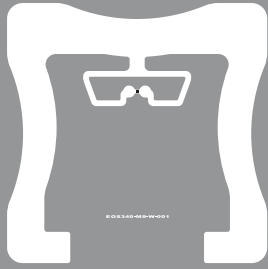
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Product Specifications

Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	3400000018	3400000019	3400000020
Antenna Size	A x B 50 x 50 mm / 1.97 x 1.97 in	50 x 50 mm / 1.97 x 1.97 in	50 x 50 mm / 1.97 x 1.97 in
Finish Size	C x D - / -	53 x 53 mm / 2.09 x 2.09 in	53 x 53 mm / 2.09 x 2.09 in
Web Width	E 60.00 ± 1 mm / 2.362 ± 0.04 in	60.00 ± 1 mm / 2.362 ± 0.04 in	60.00 ± 1 mm / 2.362 ± 0.04 in
Pitch	F 57.15 ± 0.2 mm / 2.250 ± 0.01 in	57.15 ± 1 mm / 2.250 ± 0.04 in	57.15 ± 1 mm / 2.250 ± 0.04 in
Antenna to Web Edge	G1 5.0 ± 1 mm / 0.197 ± 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 -	3.5 ± 1 mm / 0.138 ± 0.04 in	3.5 ± 1 mm / 0.138 ± 0.04 in
Antenna Gap	I 7.15 mm / 0.281 in	-	-
Converting Spot	J 4.00 x 4.00 mm / 0.157 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	3400000018	3400000019	3400000020
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	283 mm / 11.14 in	334 mm / 13.15 in	200 mm / 7.87 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	9 000 (-0% +1.5%)	8 000 (-0% +1.5%)	1 500 (-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	5
Inlays/Box	18 000	16 000	7 500
Box Gross Weight	5.48 kg / 12.09 lbs	5.4 kg / 11.91 lbs	4.21 kg / 9.27 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	864 000	768 000	270 000
Pallet Gross Weight	288 kg / 635 lbs	284 kg / 626 lbs	176 kg / 388 lbs

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