

EOS-232 M830

T A G E O S

## Datasheet



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### Compact Flag Tag for Reliable On-Metal Performance

The EOS-232 M830 is an on-metal flag tag designed to deliver reliable RFID performance on metalized surfaces and other challenging packaging materials. A unique electrical coupling technique enhances read sensitivity and range, enabling consistent performance in difficult tagging environments. Featuring a 31.4 × 18 mm antenna and a compact 21 × 17 mm flag, the inlay enables effective tagging of smaller items while keeping the tag discreet and unobtrusive once applied.

EOS-232 M830 is available in dry and paper-face delivery formats.

The EOS-232 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

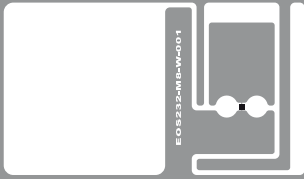
IC:	Impinj M830
EPC/User Memory:	128 bit / - bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz
Protocol:	EPC Class 1 Gen 2 - ISO 18000-63

#### Application Areas

- Accessories & Jewelry
- Consumer Electronics
- Inventory Visibility
- Item Level Tagging
- Supply Chain Management



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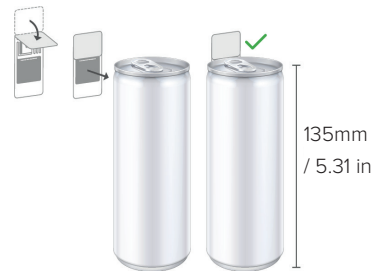
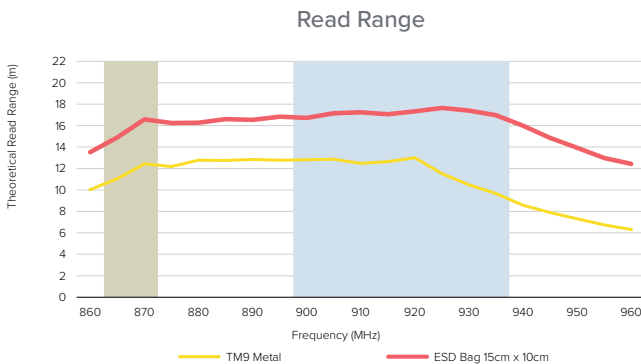


# EOS-232 M830

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### Technical Overview

	Dry	Plastic-face
Product Code	2300000017	2300000016
Antenna Size	31.4 x 18 mm 1.24 x 0.71 in	31.4 x 18 mm 1.24 x 0.71 in
Finish Size	-	60 x 21 mm incl. 17 x 21 mm foldable flag tail 2.36 x 0.83 in incl. 0.67 x 0.83 in foldable flag tail
Web Width	63.00 ± 1 mm 2.480 ± 0.04 in	63.00 ± 1 mm 2.480 ± 0.04 in
Pitch	23.99 ± 0.2 mm 0.944 ± 0.01 in	23.99 ± 1 mm 0.944 ± 0.04 in
ARC Approval	-	-
FSC® Certification	-	-
Antenna Material	Aluminium	Aluminium
Front Face	-	PP white
Inlay Substrate	PET Clear 50µm	PET Clear 50µm
Inlay Adhesive	-	permanent
Liner	-	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
Shelf Life	2 years @ +25°C/40%RH	2 years @ +25°C/40%RH
Final Inspection	100% tested	100% tested

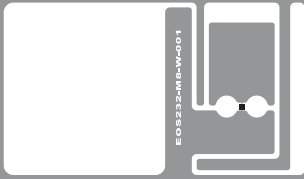


**Contact:**  
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**Graphs:** All the graphs are indicative: performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling 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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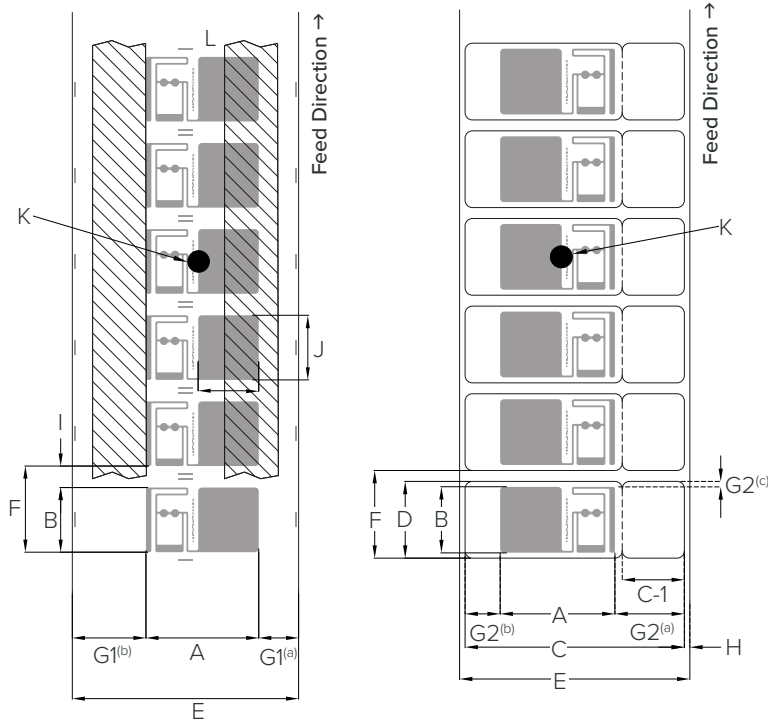


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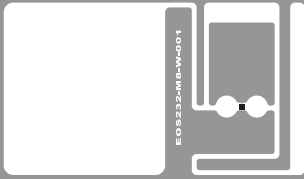
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# Product Specifications

## Mechanical Dimensions



	Dry	Plastic-face
Product Code	2300000017	2300000016
Antenna Size	A x B 31.4 x 18 mm / 1.24 x 0.71 in	31.4 x 18 mm / 1.24 x 0.71 in
Finish Size	C x D -	60 x 21 mm incl. 17 x 21 mm foldable flag tail (C-1) 2.36 x 0.83 in incl. 0.67 x 0.83 in foldable flag tail (C-1)
Web Width	E 63.00 ± 1 mm / 2.480 ± 0.04 in	63.00 ± 1 mm / 2.480 ± 0.04 in
Pitch	F 23.99 ± 0.2 mm / 0.944 ± 0.01 in	23.99 ± 1 mm / 0.944 ± 0.04 in
Antenna to Web Edge	G1 111 ± 1 mm / 0.437 ± 0.04 in <sup>(a)</sup> 20.5 ± 1 mm / 0.807 ± 0.04 in <sup>(b)</sup>	- -
Antenna to Die-cut	G2 -	19 ± 1 mm / 0.748 ± 0.04 in <sup>(a)</sup> 9.6 ± 1 mm / 0.378 ± 0.04 in <sup>(b)</sup> 1.5 ± 1 mm / 0.059 ± 0.04 in <sup>(c)</sup>
Die-cut to Web Edge	H -	1.5 ± 1 mm / 0.059 ± 0.04 in
Antenna Gap	I 5.99 mm / 0.236 in	-
Converting Spot	J 16.85 x 18.00 mm / 0.66 x 0.71 in, antenna section can be used	
Bad Mark	K Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in
Interleaves	L Yes	No



# EOS-232 M830

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## Packing Details

	Dry	Plastic-face
Product Code	2300000017	2300000016
Delivery Format	Roll (single row)	Roll (single row)
Core Inner Diameter	76 mm / 2.99 in	76 mm / 2.99 in
Roll Outer Diameter	338 mm / 13.31 in	203 mm / 7.99 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	35 000 (-0% +1.5%)	5 000 (-0% +1.5%)
Min. Guar. Yield/Roll	99%	99%
Box Dimensions	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	5
Inlays/Box	105 000	25 000
Box Gross Weight	16.74 kg / 36.91 lbs	7.47 kg / 16.46 lbs
Pallet Dimensions	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	36
Inlays/Pallet	5 040 000	900 000
Pallet Gross Weight	828 kg / 1 826 lbs	294 kg / 648 lbs

### Contact:

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