



EOS-500 M830

TAGEOS

Datasheet

Reliable Solution for Use on Several Dielectric Materials

EOS-500 M830 provides robust performance on materials with varying dielectric loads. Featuring superior read-ranges globally, the inlay is a solution of choice for inventory visibility and other applications in industrial manufacturing, logistics, and supply chain management.

EOS-500 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-500 M830 is available in dry, wet, and paperface delivery formats.

Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab.

Like all Tageos' RFID inlays and tags, EOS-500 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 manufacturing processes and 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 18000-63

Application Areas

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



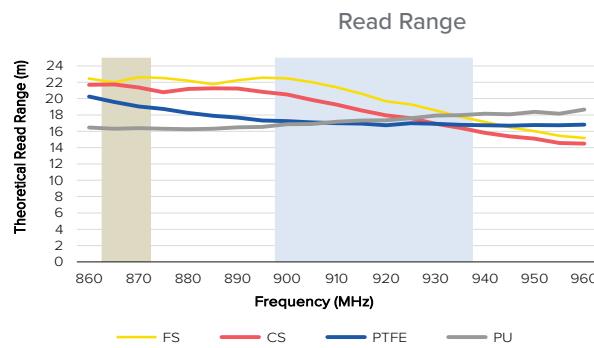


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Technical Overview

	Dry	Wet	Paper-face
Product Code	5000000100	5000000101	5000000102
Antenna Size	94 x 24 mm 3.70 x 0.94 in	94 x 24 mm 3.70 x 0.94 in	94 x 24 mm 3.70 x 0.94 in
Finish Size	- -	97 x 27 mm 3.82 x 1.06 in	97 x 27 mm 3.82 x 1.06 in
Web Width	105.00 ± 1 mm 4.134 ± 0.04 in	105.00 ± 1 mm 4.134 ± 0.04 in	105.00 ± 1 mm 4.134 ± 0.04 in
Pitch	30.04 ± 0.2 mm 1.183 ± 0.01 in	30.04 ± 1 mm 1.183 ± 0.04 in	30.04 ± 1 mm 1.183 ± 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



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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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