

EOS-500 U8

T A G E O S

Datasheet

Versatile Solution for Item-level Tagging on Several Dielectric Materials

The EOS-500 U8 inlay provides robust performance on materials with different dielectric loads, such as FS (Free space), CS (Cardstock), PTFE (Teflon), and PU (Polyurethan), or similar. This makes the inlay particularly suitable for inventory visibility and related applications in supply chain management, logistics and various industrial manufacturing sectors such as automotive and aviation.

EOS-500 U8 is equipped with the NXP UCODE 8 IC, which features a self-adjust capability, a product status flag for electronic article surveillance (EAS) applications, pre-serialized 96-bit EPC, and a brand identifier. The IC enables long read distance and fast inventory of dense RFID tag population due to high read and write sensitivity and fast encoding speed.



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Available in dry, wet, and paper-face delivery formats, EOS-500 U8 complies with global frequency standards.

Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab. EOS-500 U8 complies with ARC specification P.

Like all Tageos' RFID products, EOS-500 U8 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.

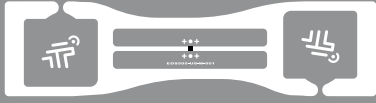
Overview

IC:	NXP UCODE 8
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

- Consumer Electronics
- Inventory Visibility
- Item Level Tagging
- Parts & Supply Chain Management
- Track & Trace
- Windshield Tagging



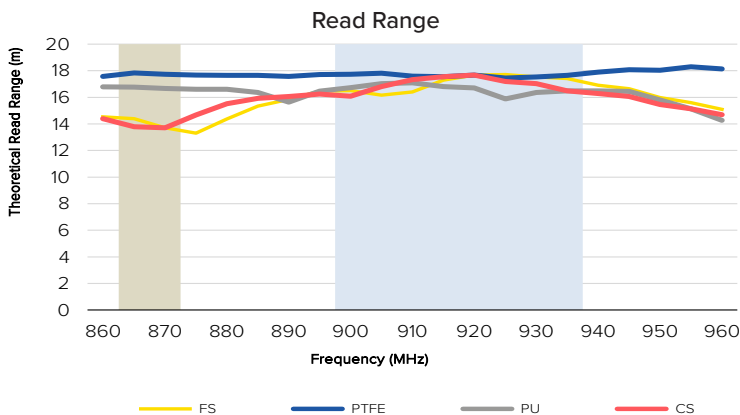


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Technical Overview

	Dry	Wet	Paper
Product Code	5000000071	5000000070	5000000069
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	104.8 ± 1 mm 4.126 ± 0.04 in	104.8 ± 1 mm 4.126 ± 0.04 in	104.8 ± 1 mm 4.126 ± 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
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	-40°C / +85°C -40°F / +185°F	-40°C / +85°C -40°F / +185°F
Final Inspection	100% tested	100% tested	100% tested
ARC Approvals	P	P	P



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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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