

## EOS-500 U9

# T A G E O S

## Datasheet



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### Reliable Solution for Use on Several Dielectric Materials

The EOS-500 U9 inlay 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 U9 uses NXP's UCODE 9 IC which is well suited for inventory management applications and enables long read distance and fast inventory of dense RFID tag populations. The chip also features 96-bit EPC; kill password; EPC and kill password permalock; self-adjusting impedance; and memory integrity safeguards.

EOS-500 U9 provides highly stable performance throughout all frequency ranges worldwide. The inlay is available in dry and wide web format.

Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab. EOS-500 U9 complies with ARC specification P.

Like all Tageos' RFID products, EOS-500 U9 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 9
EPC/User Memory:	96 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

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





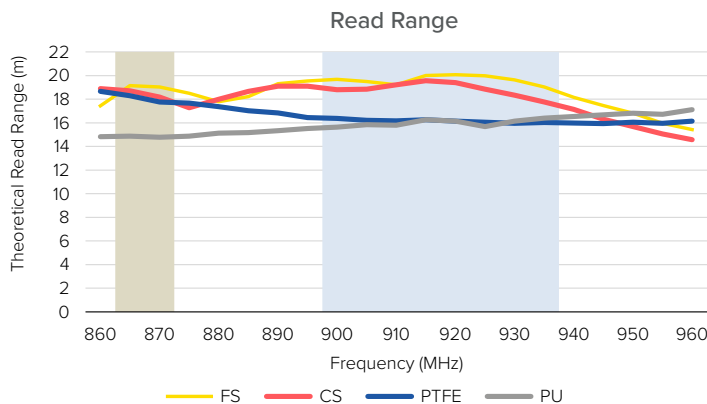
# EOS-500 U9

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## Technical Overview

### Dry - 10up

Product Code	5000000088		
Antenna Size	24 x 94 mm 0.94 x 3.70 in		
Finish Size	-		
Web Width	340.0 ± 1 mm 13.386 ± 0.04 in		
Pitch	100.01 ± 0.2 mm 3.938 ± 0.01 in	32.00 ± 0.2 mm 1.260 ± 0.01 in	
Antenna Material	Aluminium		
Front Face	-		
Inlay Substrate	PET clear		
Inlay Adhesive	-		
Liner	-		
Operating Temperature	-40°C / +85°C -40°F / +185°F		
Final Inspection	100% tested		
ARC Approvals	P		



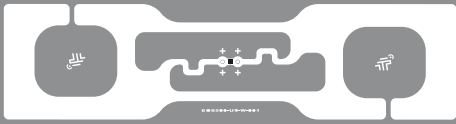
### Contact:

Tageos SAS (HQ) . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com



**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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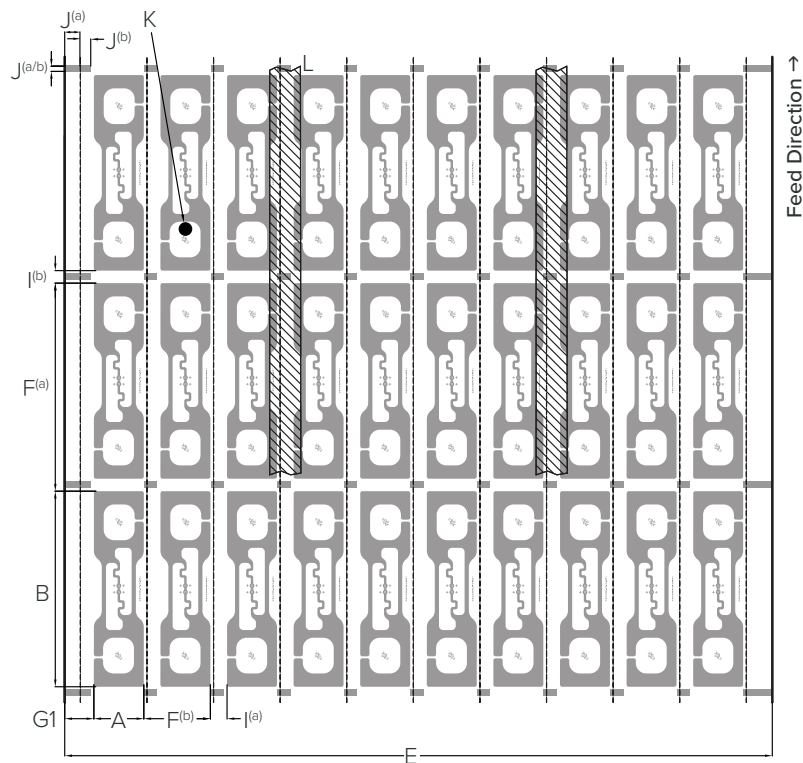


EOS-500 U9

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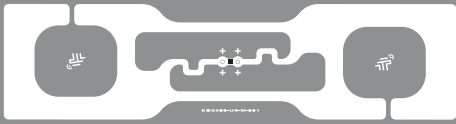
## Product Specifications

### Mechanical Dimensions



#### Dry - 10up

Product Code	5000000088		
Antenna Size	A x B 24 x 94 mm / 0.94 x 3.70 in		
Finish Size	C x D -		
Web Width	E	340.0 ± 1 mm / 13.386 ± 0.04 in	
Pitch	F	100.01 ± 0.2 mm / 3.938 ± 0.01 in <sup>(a)</sup>	32.00 ± 0.2 mm / 1.260 ± 0.01 in <sup>(b)</sup>
Antenna to Web Edge	G1	14.0 ± 1 mm / 0.551 ± 0.04 in	
Antenna to Die-cut	G2	-	
Die-cut to Web Edge	H	-	
Antenna Gap	I	8.00 mm / 0.315 in <sup>(a)</sup>	6.01 mm / 0.237 in <sup>(b)</sup>
Converting Spot	J	7.00 x 3.00 mm / 0.276 x 0.118 in <sup>(a)</sup>	4.75 x 3.00 mm / 0.187 x 0.118 in <sup>(b)</sup>
Bad Mark	K	Ø 6.0 mm / 0.236 in	
Interleaves	L	Yes	



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## Packing Details

### Dry - 10up

Product Code	5000000088
Delivery Format	Roll (multi row)
Core Inner Diameter	76 mm / 2.99 in
Roll Outer Diameter	331 mm / 13.03 in
Unwinding Direction	Inlay on outside of roll
Standard Roll Size	80 000
Min. Guar. Yield/Roll	98.5%
Box Dimensions	38.5 x 38.5 x 37.0 cm 15.16 x 15.16 x 14.57 in
Roll/Box	1
Inlays/Box	80 000
Box Gross Weight	24.10 kg / 53.13 lbs
Pallet Dimensions	120 x 80 x 126 cm / 47.2 x 31.5 x 49.6 in
Boxes/Pallet	18
Inlays/Pallet	1 440 000
Pallet Gross Weight	459 kg / 1012 lbs

### Contact:

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