



# EOS-460 U9

# TAGEOS

## Datasheet



### Small Footprint and High Performance for Tire Tagging

The EOS-460 U9 inlay combines a market-leading small footprint with high performance in inventory control applications for tires and other rubberized items.

As of October 2022, the narrow pitch makes the EOS-460 U9 the most optimized, ARC specification T qualified product for cost-effective processing. Reliably performing on rubber surfaces and a wide range of high dielectric materials, EOS-460 U9 is perfectly suitable for both tire trade companies and several manufacturing industries, including automotive and aerospace.

The inlay's UCODE 9 IC 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.

The EOS-460 U9 inlay offers robust global performance and is available in dry, wet and paper-face formats.

Like all Tageos' RFID products, the inlay is compliant with ISO 9001:2015 Quality Management System and ISO 14001:2015 Environmental Management.

Tageos is one of the first companies to have successfully completed the ARC Quality Certification from Auburn University RFID Lab. All products comply with 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

- Inventory Visibility
- Track and Trace
- Parts Management



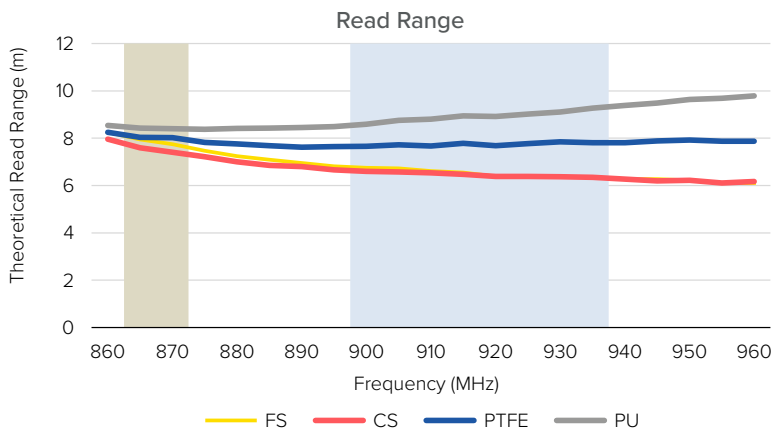


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## Technical Overview

	Dry	Wet	Paper-face
Product Code	4600000001	4600000002	4600000003
Antenna Size	47 x 75 mm 1.85 x 2.95 in	47 x 75 mm 1.85 x 2.95 in	47 x 75 mm 1.85 x 2.95 in
Finish Size	-	50 x 78 mm 1.97 x 3.07 in	50 x 78 mm 1.97 x 3.07 in
Web Width	53 ± 1 mm 2.09 ± 0.04 in	53 ± 1 mm 2.09 ± 0.04 in	53 ± 1 mm 2.09 ± 0.04 in
Pitch	82.55 ± 0.2 mm 3.25 ± 0.01 in	82.55 ± 1 mm 3.25 ± 0.04 in	82.55 ± 1 mm 3.25 ± 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	T	T	T



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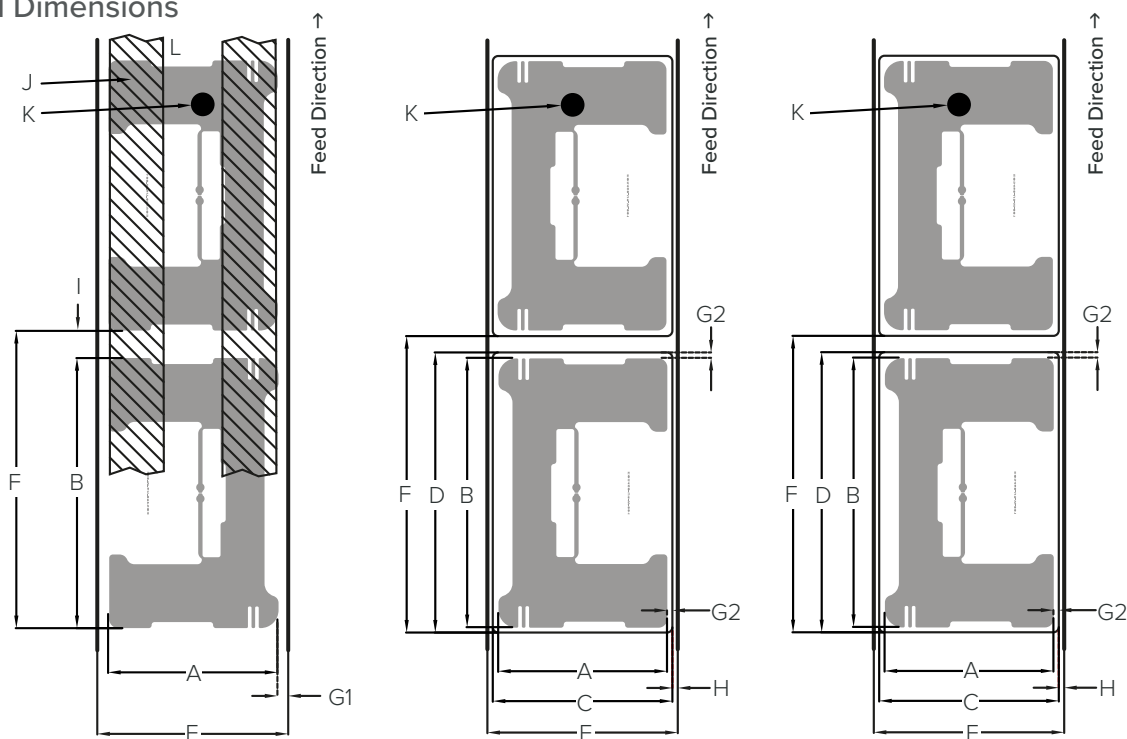


**Graphs:** All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices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

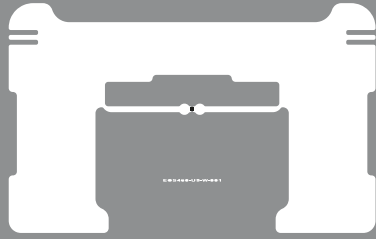
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## Product Specifications

### Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	4600000001	4600000002	4600000003
Antenna Size	A x B 47 x 75 mm / 1.85 x 2.95 in	47 x 75 mm / 1.85 x 2.95 in	47 x 75 mm / 1.85 x 2.95 in
Finish Size	C x D -	50 x 78 mm / 1.97 x 3.07 in	50 x 78 mm / 1.97 x 3.07 in
Web Width	E 53 ± 1 mm / 2.09 ± 0.04 in	53 ± 1 mm / 2.09 ± 0.04 in	53 ± 1 mm / 2.09 ± 0.04 in
Pitch	F 82.55 ± 0.2 mm / 3.25 ± 0.01 in	82.55 ± 1 mm / 3.25 ± 0.04 in	82.55 ± 1 mm / 3.25 ± 0.04 in
Antenna to Web Edge	G1 3 ± 1 mm / 0.12 ± 0.04 in	-	-
Antenna to Die-cut	G2 -	1.5 ± 1 mm / 0.06 ± 0.04 in	1.5 ± 1 mm / 0.06 ± 0.04 in
Die-cut to Web Edge	H -	1.5 ± 1 mm / 0.06 ± 0.04 in	1.5 ± 1 mm / 0.06 ± 0.04 in
Antenna Gap	I 7.55 mm / 0.30 in	-	-
Converting Spot	J 19.96 x 4.07 mm / 0.79 x 0.16 in, antenna section can be used	-	-
Bad Mark	K Ø 6 mm / 0.24 in	Ø 6 mm / 0.24 in	Ø 6 mm / 0.24 in
Interleaves	L Yes	No	No



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# T A G E O S

## Packing Details

	Dry	Wet	Paper-face
Product Code	4600000001	4600000002	4600000003
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	319 mm / 12.56 in	327 mm / 12.87 in	182 mm / 7.17 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	9 000	5 500	1 000
Min. Guar. Yield/Roll	98.5%	98.5%	98.5%
Box Dimensions	39.5 x 39 x 17 cm / 15.56 x 15.35 x 6.69 in	39.5 x 39 x 17 cm / 15.56 x 15.35 x 6.69 in	26 x 26 x 37 cm / 10.24 x 10.24 x 14.57 in
Roll/Box	2	2	6
Inlays/Box	18 000	11 000	6 000
Box Gross Weight	8.90 kg / 19.62 lbs	10.10 kg / 22.27 lbs	7.76 kg / 17.11 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	528 000	216 000
Pallet Gross Weight	452 kg / 997 lbs	510 kg / 1124 lbs	304 kg / 670 lbs

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