

EOS-500 U7xm-2k

# TAGEOS

## Datasheet

### Extended Memory and Reliable Performance on Dielectric Materials

The EOS-500 U7XM-2k inlay is designed for robust performance on materials with a high dielectric load such as PTFE (Teflon), PMMA (Acrylic Glass), PU(Polyurethan), or similar. In combination with its extended EPC and user memory, it is particularly suitable for inventory visibility and other applications in the automotive industry, logistics, and supply chain management.

EOS-500 U7XM-2k is equipped with a UCODE 7XM ICs from NXP. With its high performance and 2-kbit of user memory, the IC is well suited for applications that require high read range and extra user memory to store customer- or product-specific data.

Available in dry, wet and paper-face delivery format, the RAIN RFID inlay complies with global frequency standards.



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

Like all Tageos' RFID products, EOS-500 U7xm-2k 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.

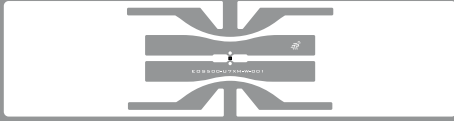
#### Overview

IC:	NXP UCODE 7xm-2K
EPC/User Memory:	448 bit / 2048 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
- Industrial Manufacturing
- Inventory Visibility
- Logistics
- Supply Chain Management



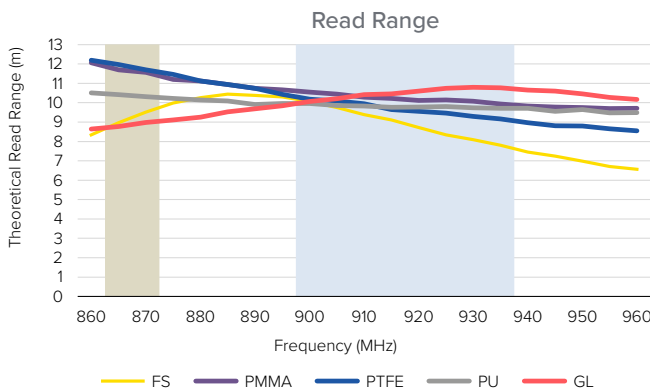


# EOS-500 U7xm-2k

# T A G E O S

## Technical Overview

	Dry	Wet	Paper-face
Product Code	5000000074	5000000073	5000000079
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	104.80 ± 1 mm 4.126 ± 0.04 in	104.80 ± 1 mm 4.126 ± 0.04 in	104.80 ± 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 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 Time	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
ARC Approvals	-	-	-

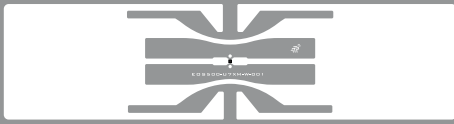


**Contact:**  
Tageos SAS (HQ) . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com



**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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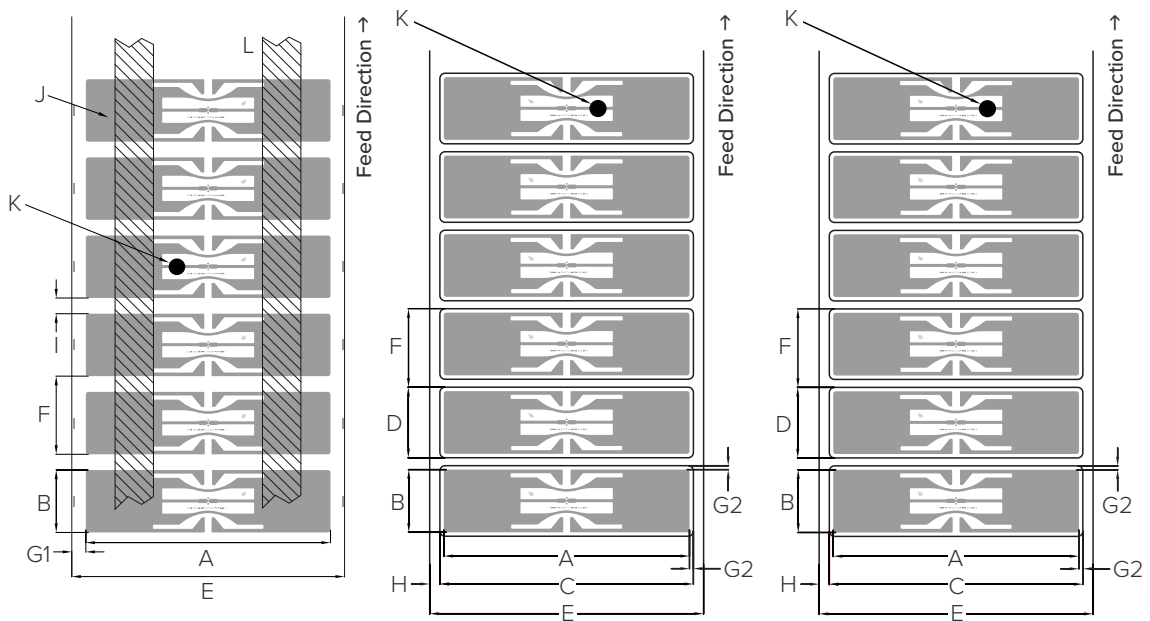


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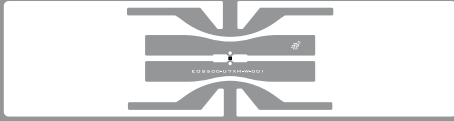
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## Product Specifications

### Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	5000000074	5000000073	5000000079
Antenna Size	A x B 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	C x D - / -	97 x 27 mm / 3.82 x 1.06 in	97 x 27 mm / 3.82 x 1.06 in
Web Width	E 104.80 ± 1 mm / 4.126 ± 0.04 in	104.80 ± 1 mm / 4.126 ± 0.04 in	104.80 ± 1 mm / 4.126 ± 0.04 in
Pitch	F 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 to Web Edge	G1 5.4 ± 1 mm / 0.213 ± 0.04 in	-	-
Antenna to Die-cut	G2 -	1.5 ± 1 mm / 0.059 ± 0.04 in	1.5 ± 1 mm / 0.059 ± 0.04 in
Die-cut to Web Edge	H -	4 ± 1 mm / 0.157 ± 0.04 in	4 ± 1 mm / 0.157 ± 0.04 in
Antenna Gap	I 6.04 mm / 0.236 in	-	-
Converting Spot	J 25.78 x 24 mm / 1.015 x 0.945 in, antenna section can be used		
Bad Mark	K Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in
Interleaves	L Yes	No	No



# EOS-500 U7xm-2k

# T A G E O S

## Packing Details

	Dry	Wet	Paper-face
Product Code	5000000074	5000000073	5000000079
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	290 mm / 11.42 in	345 mm / 13.58 in	200 mm / 7.87 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	20 000	17 000	3 500
Min. Guar. Yield/Roll	98.5%	98.5%	98.5%
Box Dimensions	39.5 x 39.0 x 17.0 cm / 15.56 x 15.35 x 6.69 in	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	1	1	3
Inlays/Box	20 000	17 000	10 500
Box Gross Weight	6.55 kg / 14.45 lbs	10.71 kg / 23.61 lbs	9.23 kg / 20.36 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	960 000	816 000	378 000
Pallet Gross Weight	339 kg / 747 lbs	539 kg / 1 188 lbs	357 kg / 787 lbs

### Contact:

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