



EOS-440 U8

# TAGEOS

## Datasheet

### Streamlined, Versatile Solution for Global Retail and General Industrial Applications



With its compact, streamlined antenna design and the excellent global RF performance of its innovative IC, the EOS-440 U8 inlay is the product of choice for a wide range of applications. They comprise brand protection and inventory management for apparel, beauty and cosmetics items and homewares, as well as supply chain, logistics and general industrial tagging purposes.

The inlay is available in dry wide web format, making it the perfect basis for solutions that will satisfy the needs of the retail industry as well as many general industrial segments.

EOS-440 U8 uses NXP's 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.

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 products, EOS-440 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

- Apparel
- Beauty & Cosmetics
- Inventory Visibility
- Item Level Tagging
- Parts Management
- Supply Chain Management





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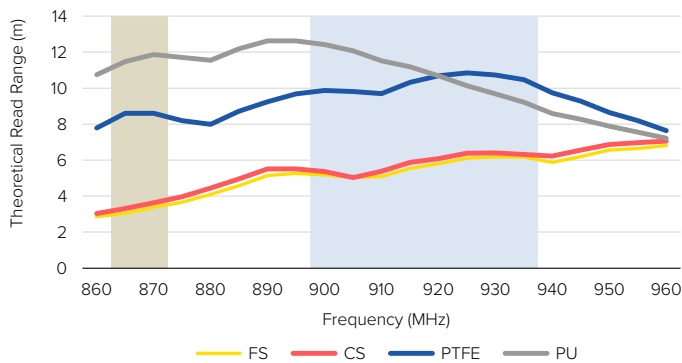
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## Technical Overview

### Dry - 4up

Product Code	4400000002		
Antenna Size	60 x 4 mm 2.36 x 0.16 in		
Finish Size	-		
Web Width	300.0 ± 1 mm 11.811 ± 0.04 in		
Pitch	18.18 ± 0.2 mm 0.716 ± 0.01 in	68.00 ± 0.2 mm 2.677 ± 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 @20% to 90% RH		
Shelf Life Time	2 years at +25°C @40% RH		
Final Inspection	100% tested		
ARC Approvals	-		

### Read Range



### 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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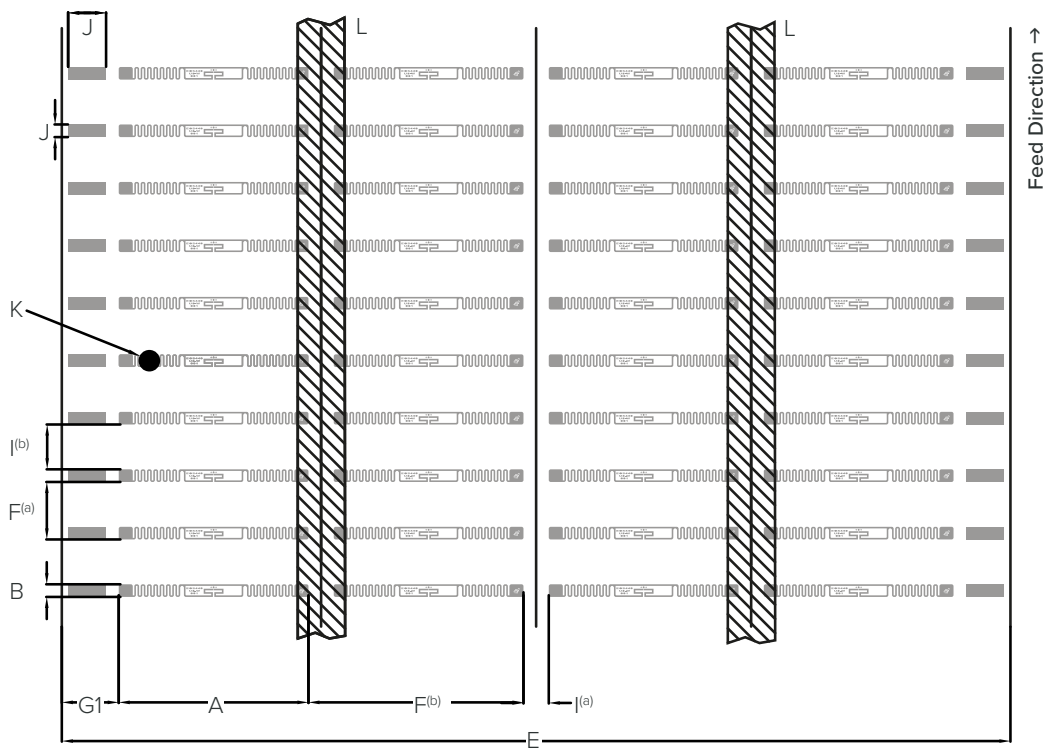


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## Product Specifications

### Mechanical Dimensions



Dry - 4up

Product Code	4400000002	
Antenna Size	A x B 60 x 4 mm / 2.36 x 0.16 in	
Finish Size	C x D -	
Web Width	E	300.0 ± 1 mm / 11.811 ± 0.04 in
Pitch	F	18.18 ± 0.2 mm / 0.716 ± 0.01 in <sup>(a)</sup> 68.00 ± 0.2 mm / 2.677 ± 0.01 in <sup>(b)</sup>
Antenna to Web Edge	G1	18.0 ± 1 mm / 0.709 ± 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> 14.18 mm / 0.558 in <sup>(b)</sup>
Converting Spot	J	12.00 x 4.00 mm / 0.372 x 0.157 in
Bad Mark	K	Ø 6.0 mm / 0.236 in
Interleaves	L	Yes



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## Packing Details

### Dry - 4up

Product Code	4400000002
Delivery Format	Roll (multi row)
Core Inner Diameter	76 mm / 2.99 in
Roll Outer Diameter	293 mm / 11.54 in
Unwinding Direction	Inlay on outside of roll
Standard Roll Size	136 400
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	136 400
Box Gross Weight	16.80 kg / 37.04 lbs
Pallet Dimensions	120 x 80 x 126 cm / 47.2 x 31.5 x 49.6 in
Boxes/Pallet	18
Inlays/Pallet	2 455 200
Pallet Gross Weight	327 kg / 721 lbs

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