

EOS-450 U9

T A G E O S

Datasheet



T A G E O S

Versatile and High-Performance Solution for Retail and Beyond

The EOS-450 U9 global inlay combines moderate size with outstanding robust performance on a wide range of surfaces. Based on a design targeted for the challenging ARC Spec Z approval, this inlay is the product of choice for a wide range of applications such as retail, food and quick service restaurants, as well as logistics and general industrial segments. Hence, it is ideally suited for inventory visibility and item-level tagging.

It is available in dry, 4up width web delivery format.

EOS-450 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.

Tageos maintains annual ARC Quality Certification for all its manufacturing sites worldwide and was among the first companies to receive certification from the Auburn University RFID Lab in 2020. EOS-450 U9 complies with ARC specification F, I, L, O, Q, R, Y2, Z, W5, and W6.

Tageos complies with ISO 9001:2025 Quality Management and ISO 14001:2015 Environmental Management as well as utilizing sustainable manufacturing processes and materials, such as FSC®-certified paper, whenever possible. In addition, all Tageos products meet the RoHS and REACH environmental directives.

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 18000-63

Application Areas

- Apparel
- Inventory Visibility
- Item Level Tagging
- Logistics
- Supply Chain Management
- Quick Service Restaurants



The mark of responsible forestry
FSC® C166692



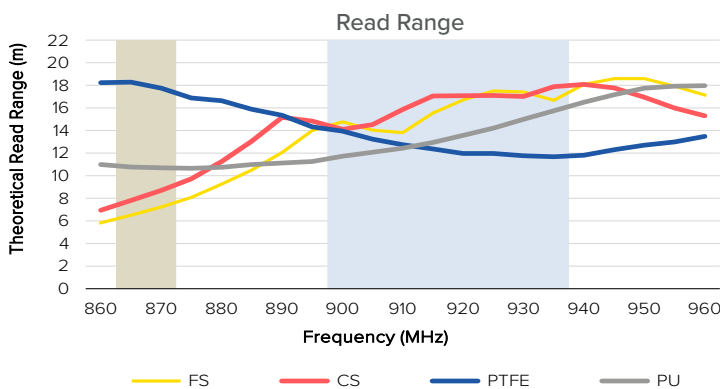
EOS-450 U9

TAGEOS

Technical Overview

Dry - 4up

Product Code	4500000012		
Antenna Size	72 x 10 mm 2.83 x 0.39 in		
Finish Size	-		
Web Width	340.0 ± 1 mm 13.386 ± 0.04 in		
Pitch	16.00 ± 0.2 mm 0.630 ± 0.01 in	82.00 ± 0.2 mm 3.228 ± 0.01 in	
ARC Approval	F, I, L, O, Q, R, Y2, Z, W5, W6		
FSC® Certification	-		
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	2 years @ +25°C/40%RH		
Final Inspection	100% tested		



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.

© 2025 Tageos. All rights reserved. The pictures and illustrations found on this document are for illustration purposes only, and do not necessarily represent the exact products. Tageos is a registered trademark. All other trademarks are the property of their respective owners. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use.

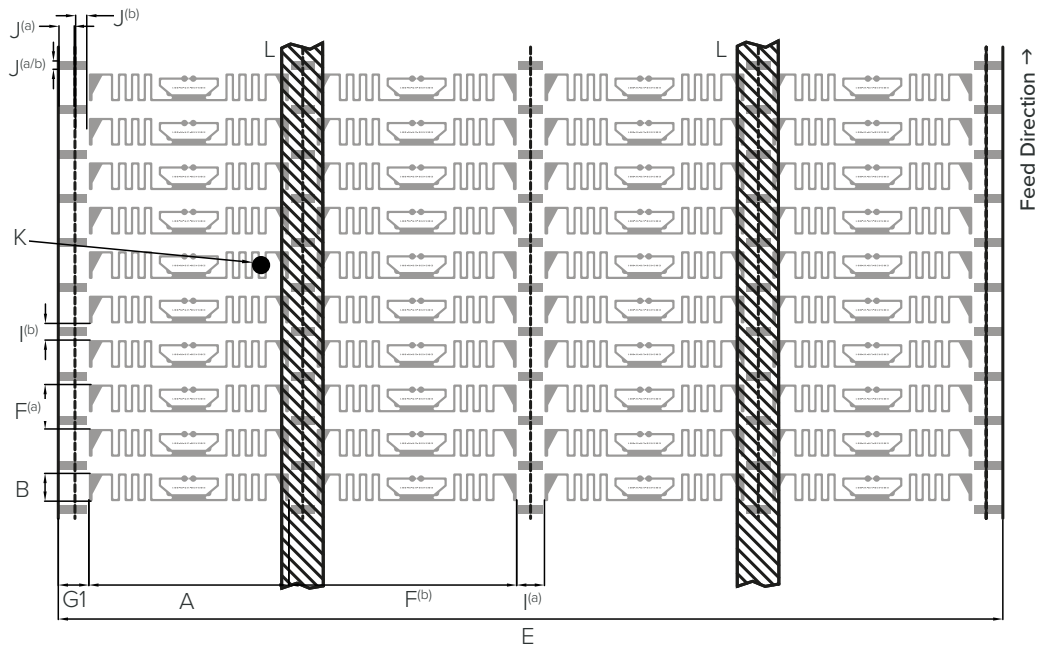


EOS-450 U9

TAGEOS

Product Specifications

Mechanical Dimensions



Dry - 4up

Product Code	4500000012		
Antenna Size	A x B 72 x 10 mm / 2.83 x 0.39 in		
Finish Size	C x D -		
Web Width	E	340.0 ± 1 mm / 13.386 ± 0.04 in	
Pitch	F	16.00 ± 0.2 mm / 0.630 ± 0.01 in ^(a)	82.00 ± 0.2 mm / 3.228 ± 0.01 in ^(b)
Antenna to Web Edge	G1	11.0 ± 1 mm / 0.433 ± 0.04 in	
Antenna to Die-cut	G2	-	
Die-cut to Web Edge	H	-	
Antenna Gap	I	10.00 mm / 0.394 in ^(a)	6.00 mm / 0.236 in ^(b)
Converting Spot	J	5.50 x 3.00 mm / 0.217 x 0.118 in ^(a)	4.00 x 3.00 mm / 0.157 x 0.118 in ^(b)
Bad Mark	K	Ø 6.0 mm / 0.236 in	
Interleaves	L	Yes	



EOS-450-U9

TAGEOS

Packing Details

Dry - 4up

Product Code	4500000012
Delivery Format	Roll (multi row)
Core Inner Diameter	76 mm / 2.99 in
Roll Outer Diameter	291 mm / 11.46 in
Unwinding Direction	Inlay on outside of roll
Standard Roll Size	152 000 (-0% +1.5%)
Min. Guar. Yield/Roll	99%
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	152 000
Box Gross Weight	18.53 kg / 40.85 lbs
Pallet Dimensions	120 x 80 x 126 cm / 47.2 x 31.5 x 49.6 in
Boxes/Pallet	18
Inlays/Pallet	2 736 000
Pallet Gross Weight	359 kg / 791 lbs

Contact:

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



© 2025 Tageos All rights reserved. The pictures and illustrations found on this document are for illustration purposes only, and do not necessarily represent the exact products. Tageos is a registered trademark. All other trademarks are the property of their respective owners. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use.