



EOS-402 U9

TAGEOS

Datasheet

Optimum Performance and Sustainability for Retail Applications

The EOS-402 U9 inlay combines optimized antenna size with best-in-class global performance in a wide array of retail and supply chain management applications, including those involving boxed merchandise in distribution centers.

It complies with global frequency standards and is available in dry, wet, and paper-face delivery formats.

EOS-402 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.



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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-402 U9 complies with numerous retail-relevant ARC specification such as F, H, I, L, O, Q, R, Y2, W5 and W6, emphasizing its applicational versatility.

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
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
- Supply Chain Management



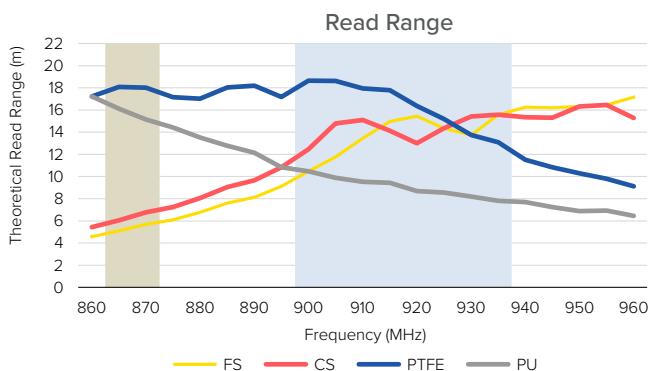


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Technical Overview

	Dry	Wet	Paper-face
Product Code	4000000130	4000000131	4000000132
Antenna Size	70 x 14.5 mm 2.76 x 0.57 in	70 x 14.5 mm 2.76 x 0.57 in	70 x 14.5 mm 2.76 x 0.57 in
Finish Size	- -	73 x 17 mm 2.87 x 0.67 in	73 x 17 mm 2.87 x 0.67 in
Web Width	76.0 ± 1 mm 2.992 ± 0.04 in	76.0 ± 1 mm 2.992 ± 0.04 in	76.0 ± 1 mm 2.992 ± 0.04 in
Pitch	20.00 ± 0.2 mm 0.788 ± 0.01 in	20.00 ± 1 mm 0.788 ± 0.04 in	20.00 ± 1 mm 0.788 ± 0.04 in
ARC Approvals	F, H, I, L, O, Q, R, Y2, W5, W6	F, H, I, L, O, Q, R, Y2, W5, W6, F, H, I, L, O, Q, R, Y2, W5, W6	F, H, I, L, O, Q, R, Y2, W5, W6
FSC® Certification	-	-	-
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 @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	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



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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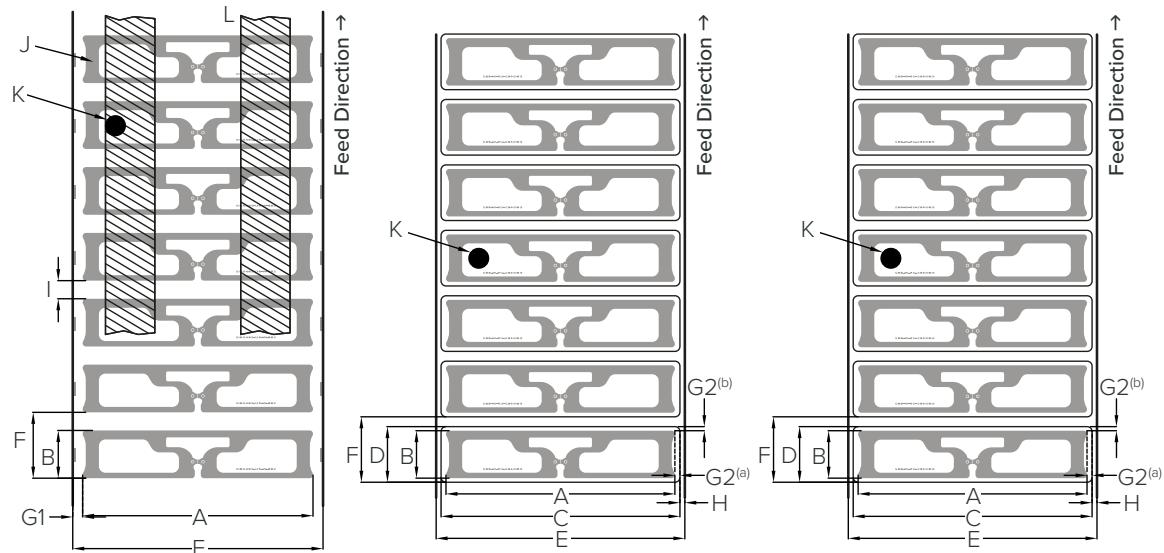


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Product Specifications

Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	4000000130	4000000131	4000000132
Antenna Size	A x B 70 x 14.5 mm / 2.76 x 0.57 in	70 x 14.5 mm / 2.76 x 0.57 in	70 x 14.5 mm / 2.76 x 0.57 in
Finish Size	C x D -	73 x 17 mm / 2.87 x 0.67 in	73 x 17 mm / 2.87 x 0.67 in
Web Width	E 76.0 ± 1 mm / 2.992 ± 0.04 in	76.0 ± 1 mm / 2.992 ± 0.04 in	76.0 ± 1 mm / 2.992 ± 0.04 in
Pitch	F 20.00 ± 0.2 mm / 0.788 ± 0.01 in	20.00 ± 1 mm / 0.788 ± 0.04 in	20.00 ± 1 mm / 0.788 ± 0.04 in
Antenna to Web Edge G1	3.0 ± 1 mm / 0.118 ± 0.04 in	-	-
Antenna to Die-cut G2	-	1.50 ± 1 mm / 0.059 ± 0.04 in ^(a) 1.25 ± 1 mm / 0.049 ± 0.04 in ^(b)	1.50 ± 1 mm / 0.059 ± 0.04 in ^(a) 1.25 ± 1 mm / 0.049 ± 0.04 in ^(b)
Die-cut to Web Edge H	-	1.50 ± 1 mm / 0.059 ± 0.04 in	1.50 ± 1 mm / 0.059 ± 0.04 in
Antenna Gap	I 5.50 mm / 0.217 in	-	-
Converting Spot	J 4.00 x 14.50 mm / 0.157 x 0.571 in, antenna section can be used	-	-
Bad Mark	K 0.6.0 mm / 0.236 in	0.6.0 mm / 0.236 in	0.6.0 mm / 0.236 in
Interleaves	L Yes	No	No



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Packing Details

	Dry	Wet	Paper-face
Product Code	4000000130	4000000131	4000000132
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	289 mm / 11.38 in	329 mm / 12.95 in	196 mm / 7.72 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	30 000 (-0% +1.5%)	23 000 (-0% +1.5%)	5 000 (-0% +1.5%)
Min. Guar. Yield/Roll	99%	99%	99%
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	4
Inlays/Box	30 000	23 000	20 000
Box Gross Weight	5.11 kg / 11.27 lbs	7.16 kg / 15.79 lbs	8.38 kg / 18.47 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	1 440 000	1 104 000	720 000
Pallet Gross Weight	270 kg / 595 lbs	369 kg / 814 lbs	327 kg / 721 lbs

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