

EOS-207 U9

T A G E O S

Datasheet

Compact Inlay for Hard-to-Tag Industrial Items



The EOS-207 U9 was designed with a unique size footprint to enable optimal tag placement on hard-to-tag items in the FCC frequency band. It delivers high read sensitivity in a small form factor for extended read ranges in demanding industrial environments. Engineered for reliability across multiple handling cycles, the inlay performs consistently in reverse logistics applications. It is also well-suited for industrial manufacturing use cases including parts management and supply chain management.

EOS-207 U9 is available in dry, 10up wide web delivery format.

The EOS-207 U9 uses NXP's UCODE 9 IC, which enables long read distance and fast inventory of dense RFID tag populations.

The chip features a 96-bit EPC memory; kill password; EPC and kill password permalock; self-adjusting impedance; and memory integrity safeguards.

Tageos maintains ARC Quality Certification for all its manufacturing sites worldwide and is one of the first companies to be certified by Auburn University's RFID Lab since 2020.

Tageos complies with ISO 9001:2015 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

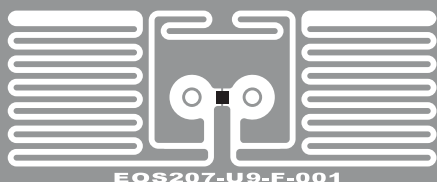
IC:	NXP UCODE 9
EPC/User Memory:	96 bit / - bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz (FCC)
Protocol:	EPC Class 1 Gen 2 - ISO 18000-63

Application Areas

- Anti-Counterfeiting
- Inventory Visibility
- Item Level Tagging
- Parts Management
- Supply Chain Mgmt.
- Reverse Logistics



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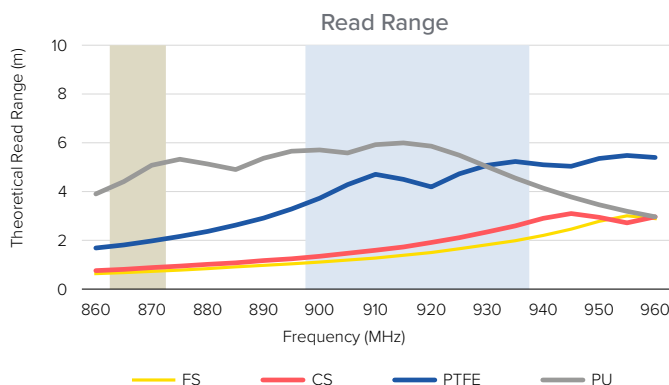


EOS207 U9

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Technical Overview

	Dry - 10up	
Product Code	2000000159	
Antenna Size	22 x 8 mm 0.87 x 0.31 in	
Finish Size	-	
Web Width	320.00 ± 1 mm 12.598 ± 0.04 in	
Pitch	15.02 ± 0.2 mm 0.591 ± 0.01 in	32.00 ± 0.2 mm 1.260 ± 0.01 in
ARC Approval	-	
FSC® Certification	-	
Antenna Material	Aluminium	
Front Face	-	
Inlay Substrate	PET Clear 50um	
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	



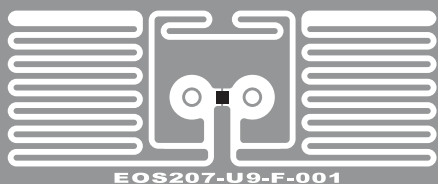
Contact:

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.

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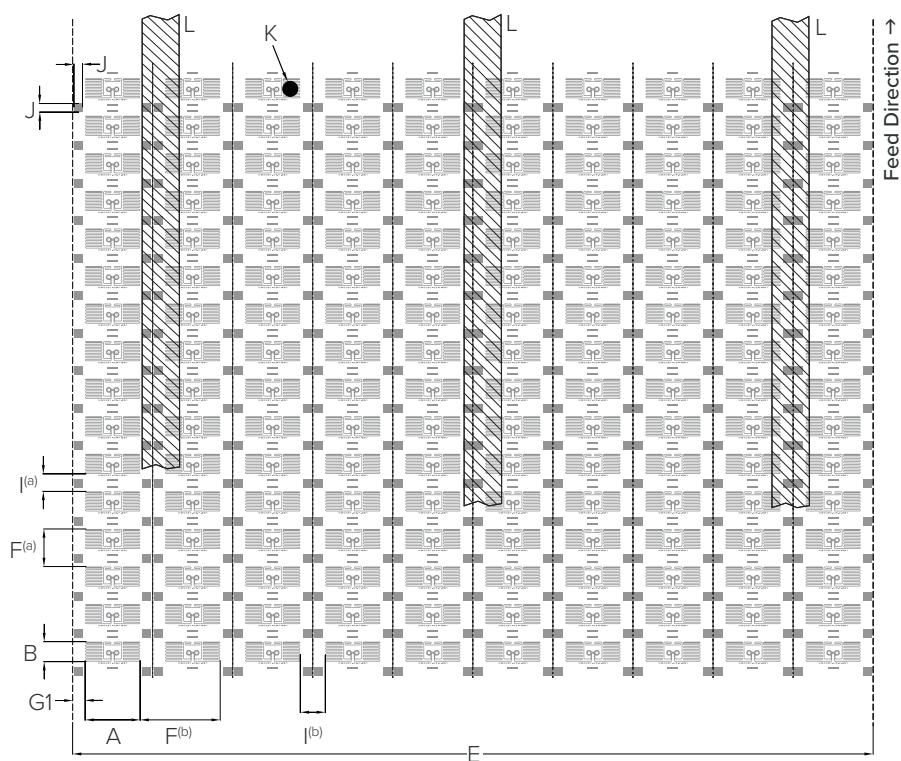


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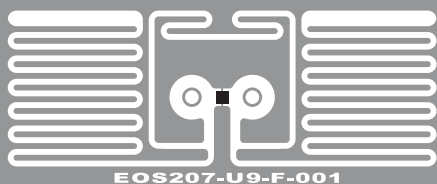
Product Specifications

Mechanical Dimensions



Dry - 10up

Product Code	2000000159		
Antenna Size	A x B 22 x 8 mm / 0.87 x 0.31 in		
Finish Size	C x D - / -		
Web Width	E	320.00 ± 1 mm / 12.598 ± 0.04 in	
Pitch	F	15.02 ± 0.2 mm / 0.591 ± 0.01 in ^(a)	32.00 ± 0.2 mm / 1.260 ± 0.01 in ^(b)
Antenna to Web Edge	G1	5.0 ± 1 mm / 0.197 ± 0.04 in	
Antenna to Die-cut	G2	-	
Die-cut to Web Edge	H	-	
Antenna Gap	I	7.02 mm / 0.276 in ^(a)	10.00 mm / 0.394 in ^(b)
Converting Spot	J	3.50 x 3.50 mm / 0.138 x 0.138 in	
Bad Mark	K	Ø 6.0 mm / 0.236 in	
Interleaves	L	Yes	



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Packing Details

	Dry - 10up
Product Code	2000000159
Delivery Format	Roll (Multi row)
Core Inner Diameter	76 mm / 2.99 in
Roll Outer Diameter	338 mm / 13.31 in
Unwinding Direction	Inlay on outside of roll
Leading Tape	- / -
Trailing Tape	- / -
Standard Roll Size	560 000 (-0% +1.5%)
Min. Guar. Yield/Roll	99%
Box Dimensions	38.5 x 38.5 x 37 cm / 15.16 x 15.16 x 14.57 in
Roll/Box	1
Inlays/Box	560 000
Box Gross Weight	24.37 kg / 53.74 lbs
Pallet Dimensions	120 x 80 x 126 cm / 47.2 x 31.5 x 49.6 in
Boxes/Pallet	18
Inlays/Pallet	10 080 000
Pallet Gross Weight	464 kg / 1 023 lbs

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