

## EOS-932 NTAG213

# TAGEOS

## Datasheet

### A high-performance “One-for-All” NFC Inlay for Demanding Applications

The EOS-932 NTAG213 inlay from Tageos is a versatile, high-performing, and cost-effective NFC inlay to cover multiple NFC applications in many industries. Tagged products or packaging can provide smartphone-accessible digital content to customers and other stakeholders in the value chain from manufacturing through point of sales to point of use and recycling.

Leveraging its specific capabilities as well as Tageos' antenna design expertise and high-quality manufacturing processes, EOS-932 NTAG213 enables state-of-the-art solutions for consumer engagement and customer experience, product authentication and diversion protection, and many other smart products and packaging applications in a compact footprint.

EOS-932 uses the NXP NTAG213 IC that comes with 144-bytes user memory, superior overall performance, and advanced functionalities including a (UID) mirror.



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UID enables the IC's serial number to be mirrored as part of its encoded URL address, allowing every inlay to be seen and read as unique from the application perspective, without additional serialization.

The EOS-932 NTAG213 inlay is available in dry, wet and paper-face formats.

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, it 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 manufacturing processes and materials, such as FSC®-certified paper whenever possible.

### Overview

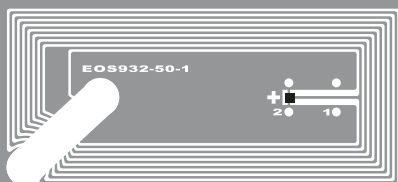
IC:	NXP NTAG213
User Memory:	144 bytes
UID:	56 bit
Frequency Band:	13.56 MHz
Protocol:	ISO/IEC 14443-A (Proximity) / Type 2 Tag

### Application Areas

- Brand Protection
- Consumer Experience
- Product Authentication
- Smart Packaging



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## Technical Overview

	Dry	Wet	Paper-face
Product Code	9300000024	9300000025	9300000026
Antenna Size	14 x 31 mm 0.55 x 1.22 in	14 x 31 mm 0.55 x 1.22 in	14 x 31 mm 0.55 x 1.22 in
Finish Size	- -	18 x 36 mm 0.71 x 1.42 in	18 x 36 mm 0.71 x 1.42 in
Web Width	32.00 ± 1 mm 1.260 ± 0.04 in	32.00 ± 1 mm 1.260 ± 0.04 in	32.00 ± 1 mm 1.260 ± 0.04 in
Pitch	39.05 ± 0.2 mm 1.538 ± 0.01 in	39.05 ± 1 mm 1.538 ± 0.04 in	39.05 ± 1 mm 1.538 ± 0.04 in
FSC® Certification	-	-	-
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	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



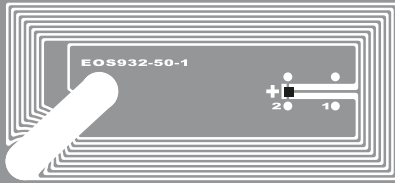
### Contact:

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**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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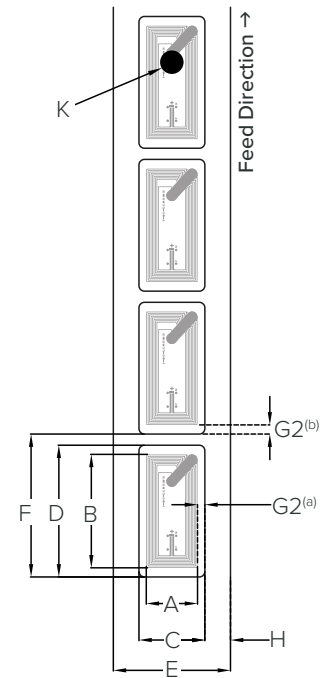
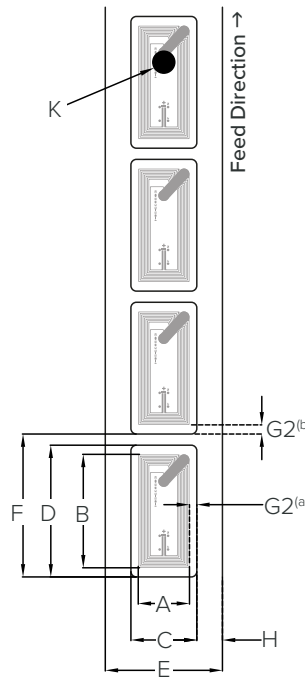
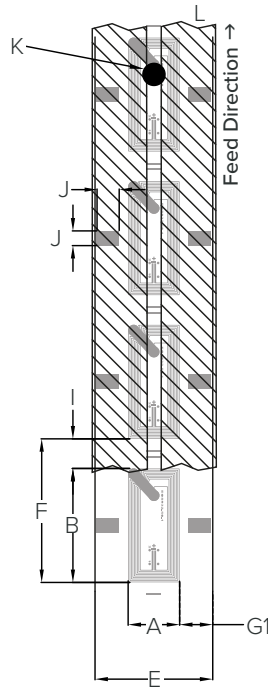


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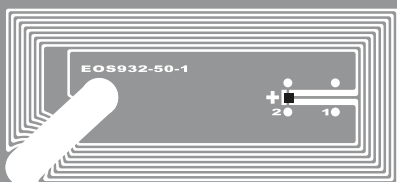
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## Product Specifications

### Mechanical Dimensions



		Dry	Wet	Paper-face
Product Code		9300000024	9300000025	9300000026
Antenna Size	A x B	14 x 31 mm / 0.55 x 1.22 in	14 x 31 mm / 0.55 x 1.22 in	14 x 31 mm / 0.55 x 1.22 in
Finish Size	C x D	- / -	18 x 36 mm / 0.71 x 1.42 in	18 x 36 mm / 0.71 x 1.42 in
Web Width	E	32.00 ± 1 mm / 1.260 ± 0.04 in	32.00 ± 1 mm / 1.260 ± 0.04 in	32.00 ± 1 mm / 1.260 ± 0.04 in
Pitch	F	39.05 ± 0.2 mm / 1.538 ± 0.01 in	39.05 ± 1 mm / 1.538 ± 0.04 in	39.05 ± 1 mm / 1.538 ± 0.04 in
Antenna to Web Edge	G1	9.0 ± 1 mm / 0.354 ± 0.04 in	-	-
Antenna to Die-cut	G2	-	2.0 ± 1 mm / 0.079 ± 0.04 in <sup>(a)</sup> 2.5 ± 1 mm / 0.098 ± 0.04 in <sup>(b)</sup>	2.0 ± 1 mm / 0.079 ± 0.04 in <sup>(a)</sup> 2.5 ± 1 mm / 0.098 ± 0.04 in <sup>(b)</sup>
Die-Cut to Web Edge	H	-	7.0 ± 1 mm / 0.276 ± 0.04 in	7.0 ± 1 mm / 0.276 ± 0.04 in
Antenna Gap	I	8.05 mm / 0.317 in	-	-
Converting Spot	J	6.00 x 4.00 mm / 0.236 x 0.157 in	-	-
Bad Mark	K	Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in	Ø 6.0 mm / 0.236 in
Interleave	L	Yes	No	No
Registration Mark (RM) M		-	-	-
RM Postion	N	-	-	-



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## Packing Details

	Dry	Wet	Paper-face
Product Code	9300000024	9300000025	9300000026
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	331 mm / 13.03 in	330 mm / 12.99 in	199 mm / 7.83 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	18 000 (-0% +1.5%)	11 000 (-0% +1.5%)	2 500 (-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	3	3	9
Inlay/Box	54 000	33 000	22 500
Box Gross Weight	8.68 kg / 19.14 lbs	5.96 kg / 13.15 lbs	5.26 kg / 11.6 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
Inlay/Pallet	2 592 000	1 584 000	810 000
Pallet Gross Weight	442 kg / 975 lbs	311 kg / 686 lbs	214 kg / 472 lbs

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