



EOS-920 NTAG213

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Datasheet

Compact, Multi-Applicational NFC Inlays for Brands and Retailers



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The EOS-920 NTAG213 Inlay from Tageos is a versatile and small, yet 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-920 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 .

EOS-920 NTAG213 uses the NXP NTAG213 IC that comes with 144-bytes user memory, superior overall

performance, and advanced functionalities including a (UID) mirror. 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.

Like all Tageos' RFID and NFC products, the EOS-920 NTAG213 Inlay is compliant with ISO 9001:2015 Quality Management System and ISO 14001:2015 Environmental Management.

Tageos is one of the first companies to have successfully completed the ARC Quality Certification from Auburn University RFID Lab. All products comply with Environmental Directives RoHS and REACH, utilizing sustainable 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
- Customer Experience
- Product Authentication
- Smart Packaging





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Technical Overview

	Wet	Paper-face	Plastic-face
Product Code	9200000002	9200000003	9200000004
Antenna Size	Ø 20 mm Ø 0.79 in	Ø 20 mm Ø 0.79 in	Ø 20 mm Ø 0.79 in
Finish Size	Ø 23 mm Ø 0.91 in	Ø 23 mm Ø 0.91 in	Ø 23 mm Ø 0.91 in
Web Width	30 ± 1 mm 1.18 ± 0.04 in	30 ± 1 mm 1.18 ± 0.04 in	30 ± 1 mm 1.18 ± 0.04 in
Pitch	26.04 ± 0.2 mm 1.03 ± 0.01 in	26.04 ± 0.2 mm 1.03 ± 0.01 in	26.04 ± 0.2 mm 1.03 ± 0.01 in
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	PET Clear	Paper TT	PP White
Inlay Substrate	PET Clear	PET Clear	PET Clear
Inlay Adhesive	Permanent	Permanent	Permanent
Liner	Paper	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 Time	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



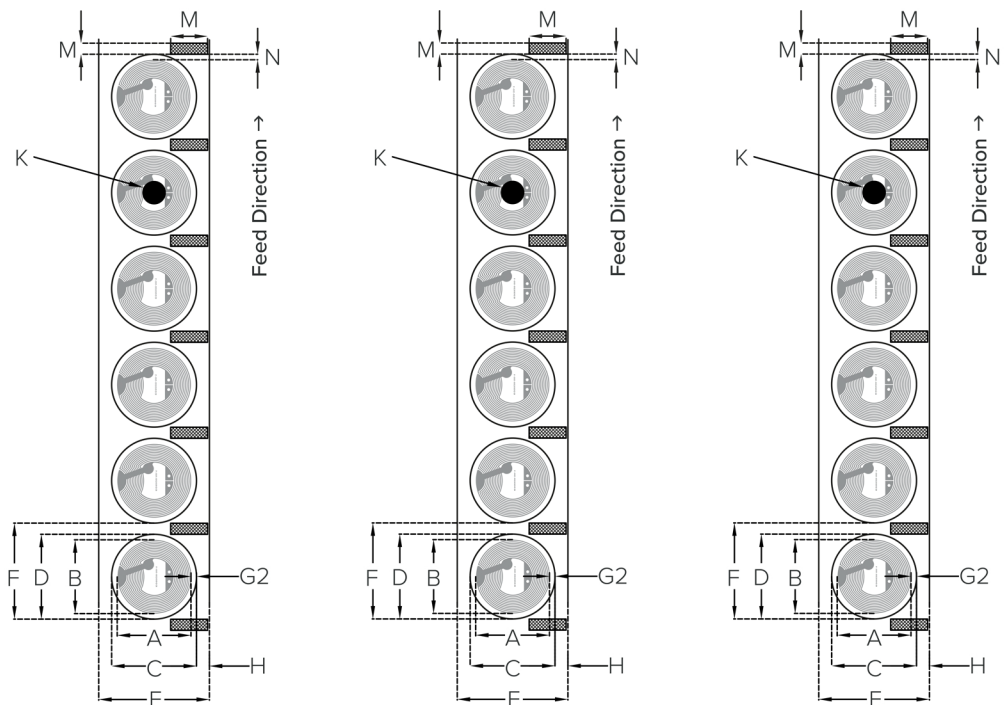
Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices to 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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Product Specifications

Mechanical Dimensions



	Wet	Paper-face	Plastic-face
Product Code	9200000002	9200000003	9200000004
Antenna Size	A x B $\varnothing 20 \text{ mm} / 0.79 \text{ in}$	$\varnothing 20 \text{ mm} / 0.79 \text{ in}$	$\varnothing 20 \text{ mm} / 0.79 \text{ in}$
Finish Size	C x D $\varnothing 23 \text{ mm} / 0.91 \text{ in}$	$\varnothing 23 \text{ mm} / 0.91 \text{ in}$	$\varnothing 23 \text{ mm} / 0.91 \text{ in}$
Web Width	E $30 \pm 1 \text{ mm} / 1.18 \pm 0.04 \text{ in}$	$30 \pm 1 \text{ mm} / 1.18 \pm 0.04 \text{ in}$	$30 \pm 1 \text{ mm} / 1.18 \pm 0.04 \text{ in}$
Pitch	F $26.04 \pm 0.2 \text{ mm} / 1.03 \pm 0.01 \text{ in}$	$26.04 \pm 0.2 \text{ mm} / 1.03 \pm 0.01 \text{ in}$	$26.04 \pm 0.2 \text{ mm} / 1.03 \pm 0.01 \text{ in}$
Antenna to Web Edge G1	-	-	-
Antenna to Die-cut	G2 $1.5 \pm 1 \text{ mm} / 0.06 \pm 0.04 \text{ in}$	$1.5 \pm 1 \text{ mm} / 0.06 \pm 0.04 \text{ in}$	$1.5 \pm 1 \text{ mm} / 0.06 \pm 0.04 \text{ in}$
Die-Cut to Web Edge	H $3.5 \pm 1 \text{ mm} / 0.14 \pm 0.04 \text{ in}$	$3.5 \pm 1 \text{ mm} / 0.14 \pm 0.04 \text{ in}$	$3.5 \pm 1 \text{ mm} / 0.14 \pm 0.04 \text{ in}$
Antenna Gap	I -	-	-
Converting Spot	J -	-	-
Bad Mark	K $\varnothing 6 \text{ mm} / 0.24 \text{ in}$	$\varnothing 6 \text{ mm} / 0.24 \text{ in}$	$\varnothing 6 \text{ mm} / 0.24 \text{ in}$
Interleave	L No	No	No
Registration Mark (RM) M	$10.0 \times 3.0 \text{ mm} / 0.39 \times 0.12 \text{ in}$	$10.0 \times 3.0 \text{ mm} / 0.39 \times 0.12 \text{ in}$	$10.0 \times 3.0 \text{ mm} / 0.39 \times 0.12 \text{ in}$
RM Position	N $1.5 \pm 1 \text{ mm} / 0.06 \pm 0.04 \text{ in}$	$1.5 \pm 1 \text{ mm} / 0.06 \pm 0.04 \text{ in}$	$1.5 \pm 1 \text{ mm} / 0.06 \pm 0.04 \text{ in}$



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Packing Details

	Wet	Paper-face	Plastic-face
Product Code	9200000002	9200000003	9200000004
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	326 mm / 12.83 in	193 mm / 7.60 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	16 000	3 500	4 000
Min. Guar. Yield/Roll	98.5%	98.5%	98.5%
Box Dimensions	39.5 x 39 x 17 cm / 15.56 x 15.35 x 6.69 in	26 x 26 x 37 cm / 10.2 x 10.2 x 14.5 in	26 x 26 x 37 cm / 10.2 x 10.2 x 14.5 in
Roll/Box	4	10	10
Inlay/Box	64 000	35 000	40 000
Box Gross Weight	7.97 kg / 17.57 lbs	5.92 kg / 13.05 lbs	6.37 kg / 14.04 lbs
Pallet Dimensions	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	120 x 80 x 126 cm / 47.2 x 31.5 x 49.6 in
Boxes/Pallet	48	36	36
Inlay/Pallet	3 072 000	1 260 000	1 440 000
Pallet Gross Weight	408 kg / 899 lbs	238 kg / 525 lbs	254 kg / 560 lbs



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