

EOS-917 NTAG 213

T A G E O S

Datasheet



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Optimized Size and Performance For Multiple NFC Applications

The EOS-917 NTAG213 inlay is a highly compact and versatile choice for the most common NFC applications in retail and beyond.

Combining one of the smallest rectangular antenna designs on the market with reliable high performance, the inlay excels wherever space is at a premium, particularly in item-level tagging, brand protection and customer experience for key retail segments such as food/groceries, accessories, toys, and many more.

EOS-917 NTAG213 uses the NXP NTAG213 IC that comes with 144-bytes user memory, superior overall performance, and advanced functionalities including a unique ID (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.

It is available in dry, wet, and paper-face delivery formats.

Like all Tageos' RFID products, EOS-917 NTAG213 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

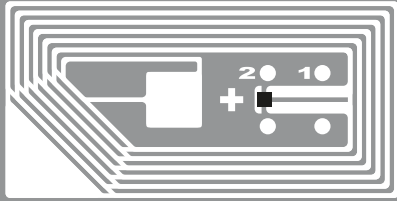
IC:	NXP NTAG213
User Memory:	144 bytes
UID:	56 bit
Frequency Band:	13.56 MHz
Protocol:	ISO/IEC 14443-A (Proximity) / Type 2 Tag

Application Areas

- Brand Protection
- Consumer Experience
- Entertainment & Gaming
- Item Level Tagging
- Product Authentication
- Smart Packaging



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Technical Overview

	Dry	Wet	Paper-face
Product Code	910000021	910000022	910000023
Antenna Size	8.5 x 17 mm 0.33 x 0.67 in	8.5 x 17 mm 0.33 x 0.67 in	8.5 x 17 mm 0.33 x 0.67 in
Finish Size	-	10.5 x 19 mm 0.41 x 0.75 in	10.5 x 19 mm 0.41 x 0.75 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	22.06 ± 0.2 mm 0.868 ± 0.01 in	22.06 ± 1 mm 0.868 ± 0.04 in	22.06 ± 1 mm 0.868 ± 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



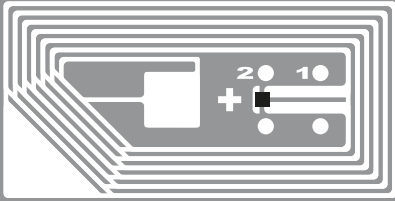
Contact:

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



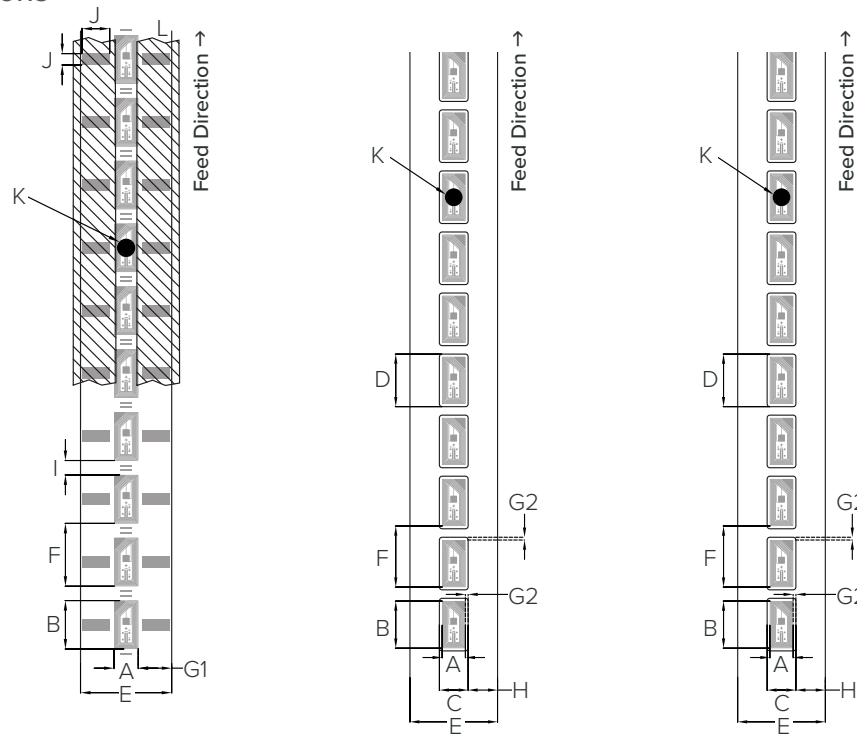
Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices to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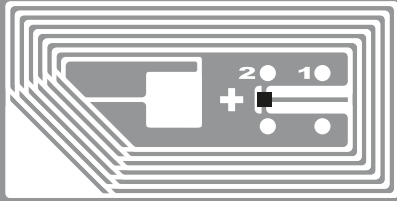


Product Specifications

Mechanical Dimensions



		Dry	Wet	Paper-face
Product Code		9100000021	9100000022	9100000023
Antenna Size	A x B	8.5 x 17 mm / 0.33 x 0.67 in	8.5 x 17 mm / 0.33 x 0.67 in	8.5 x 17 mm / 0.33 x 0.67 in
Finish Size	C x D	- / -	10.5 x 19 mm / 0.41 x 0.75 in	10.5 x 19 mm / 0.41 x 0.75 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	22.06 ± 0.2 mm / 0.868 ± 0.01 in	22.06 ± 1 mm / 0.868 ± 0.04 in	22.06 ± 1 mm / 0.868 ± 0.04 in
Antenna to Web Edge	G1	11.8 ± 1 mm / 0.463 ± 0.04 in	-	-
Antenna to Die-cut	G2	-	1.0 ± 1 mm / 0.039 ± 0.04 in	1.0 ± 1 mm / 0.039 ± 0.04 in
Die-Cut to Web Edge	H	-	10.8 ± 1 mm / 0.423 ± 0.04 in	10.8 ± 1 mm / 0.423 ± 0.04 in
Antenna Gap	I	5.06 mm / 0.199 in	-	-
Converting Spot	J	9.80 x 4.00 mm / 0.386 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	9100000021	9100000022	9100000023
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	301 mm / 11.85 in	334 mm / 13.15 in	200 mm / 7.87 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	26 000 (-0% +1.5%)	20 000 (-0% +1.5%)	4 500 (-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	78 000	60 000	40 500
Box Gross Weight	7.21 kg / 15.89 lbs	5.02 kg / 11.07 lbs	4.16 kg / 9.18 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	3 744 000	2 880 000	1 458 000
Pallet Gross Weight	371 kg / 818 lbs	266 kg / 586 lbs	175 kg / 386 lbs

Contact:

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