



## TG-A088

### Datasheet

Cost-effective Global Solution for High-volume Applications

The TG-A088 inlay is an ideal option for RFID-based item management. It has excellent orientation sensitivity and performs extremely well on a wide range of materials in dense tagging environments, which brings user a low-cost solution for inventory control in non-food industries such as retail, logistics and supply chain management.

It is perfect for large-scale, world-wide deployments, since it is a small, universal tag that can operate world-wide, simplifying the tag supply chain for global enterprises.

It uses NXP's UCODE 9 Ic which offers high performance across all global frequency standards. Particularly well

suited for inventory management applications with its proven RF performance for any given form factor, UCODE 9 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.

It is available in dry and label format, complies with ARC specifications N, Q, G, F, L, I, K, R, Y, Y2, J, O, W1, W2, W3, W4, W5 and W6, ISO 9001:2015 Quality Management System, ISO 14001:20215 Environmental Management System and Environmental Directives RoHS and REACH.

### Overview

IC:	NXP UCODE 9
EPC Memory:	96 bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860-960 MHz
Air interface protocol:	EPC Gen2v2, ISO 18 000-63

### Application Areas

- Apparel
- Inventory Visibility
- Item Level Tagging
- Parts Management
- Supply Chain Management



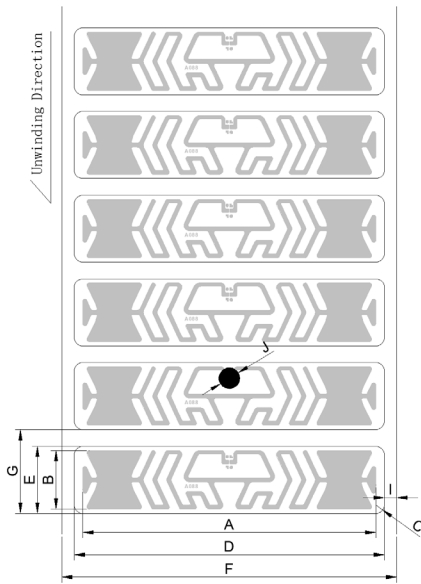
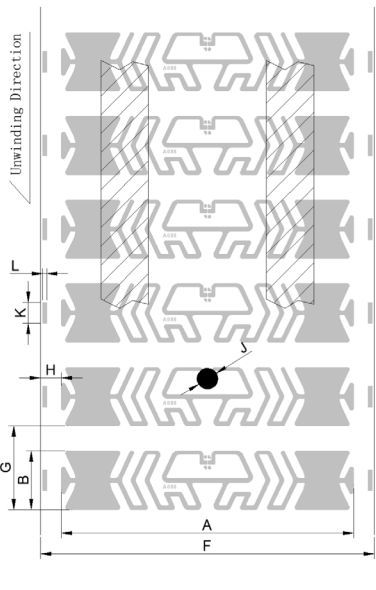
# Product Specifications

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## Mechanical Dimensions

	Dry	Label
Product Code	TG-A088	TG-A088
Antenna Size	$A \times B$ 70 x 14 mm / 2.76 x 0.55 in	70 x 14 mm / 2.76 x 0.55 in
R Angle Size	C -	2±0.5 mm / 0.08±0.02 in
Die-cut Size	$D \times E$ -	74 x 16 mm / 2.91 x 0.63 in
Web width	$F$ 80±0.5 mm / 3.15±0.02 in	80±0.5 mm / 3.15±0.02 in
Pitch	$G$ 20±1 mm / 0.79±0.04 in	20±1 mm / 0.79±0.04 in
Antenna to Web Edge	$H$ 5±0.5 mm / 0.20±0.02 in	-
Die-cut to Web Edge	$I$ -	3±0.5 mm / 0.12±0.02 in
Bad Mark	$J$ $\phi$ 5 mm / 0.20 in	$\phi$ 5 mm / 0.20 in
Mark Size	$K \times L$ 5 x 1 mm / 0.20 x 0.04 in	-

Co-branded product  
between Thinkgo & Beontag

Thinkgo IoT Technology Co.,Ltd

Enterprise IoT digital transformation service provider

Drafter of standard IEEE P2786, P2796, P2934, P3145

Top supplier of China's largest Rain RFID user HLA

Impin's gold value added partner; Distributor of CSL & Mojix





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## Disclaimer:

Thinkgo reserves the right to change its products and services at any time without notice. Our recommendations are based on our best knowledge and experience. As the products are used beyond our control we cannot be held liable for any damages caused when using the product. Use extra care in handling the product and observe standard storage and handling practices to minimize ESD (electrostatic discharge). This technical specification replaces all earlier ones.

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## Packing Details

	Dry	Label
Product Code	TG-A088	TG-A088
Quality check	100% tested	100% tested
Standard delivery yield	99%, bad inlays marked	99%, bad inlays marked
Appearance	Single row reel form	Single row reel form
Core Inner Diameter	76.2 mm / 3 in	76.2 mm / 3 in
Winding of the reel	Antenna out	Antenna out
Reel size	10000±100 pcs per reel	5000±100 pcs per reel
Package size	40000pcs per box, Delivery in full packages	20000pcs per box, Delivery in full packages.

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### Technical Overview

	Dry	Label
Product Code	TG-A088	TG-A088
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Die-cut Size	-	74 x 16 mm / 2.91 x 0.63 in
Web width	80±0.5 mm / 3.15±0.02 in	80±0.5 mm / 3.15±0.02 in
Pitch	20±1 mm / 0.79±0.04 in	20±1 mm / 0.79±0.04 in
Antenna Material	Aluminium	Aluminium
Front Face	-	Coated Paper
Inlay Substrate	Clear PET	Clear PET
Inlay Adhesive	-	Permanent
Liner	-	Paper
Operating Temperature	-40°C / +85°C -40°F / +185°F	-40°C / +85°C -40°F / +185°F
Final inspection	100% tested	100% tested
ARC Categories	N, Q, G, F, L, I, K, R, Y, O, W1, W2, W3, W4, W5 and W6	

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