Eagle®

Overview

Frequency Band
UHF 860 - 960 MHz

Chip
NXP UCODE 8

Antenna Dimensions
44 x 28 mm / 1.73 x 1.10 in

International Standard
ISO 18000-6C, EPC Class 1 Gen 2

Industry Segments
Apparel
Logistics

Applications
Supply Chain Management
Brand Protection
Home Essentials

RoHS
EU Directive 2011/65/EC and
Directive (EU) 2015/863

REACH
Regulation (EC) No. 1907/2006

Top read range for retail applications

Our Eagle® is one of the smallest global UHF RFID inlays for retail applications, having a compact size 44 x 28 mm which can be easily converted into end application usage, available in dry and label / sticker delivery formats. Eagle® equipped with NXP UCODE 8 offers the same memory size and typical IC features as NXP UCODE 7. Furthermore, it offers a self adjust feature to maximize product performance in challenging environments and has an improved read and write sensitivity and faster encoding speed compared to NXP UCODE 7. The chip has an integrated brand identifier function to prove product authenticity and a memory safeguard system to protect business data.
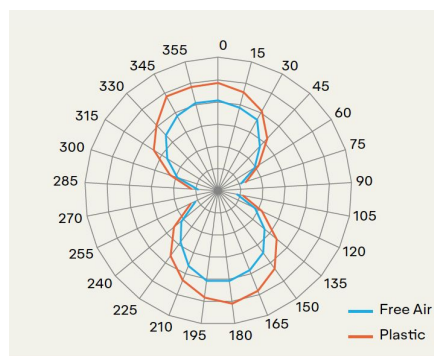
Eagle® with the NXP UCODE 8 IC, used in retail applications, is the smallest inlay with global performance currently available on the market that has passed ARC categories A, B, C, D, F, G, I, K, M, Q, W2 and W5.

Our inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, especially in the retail environment.
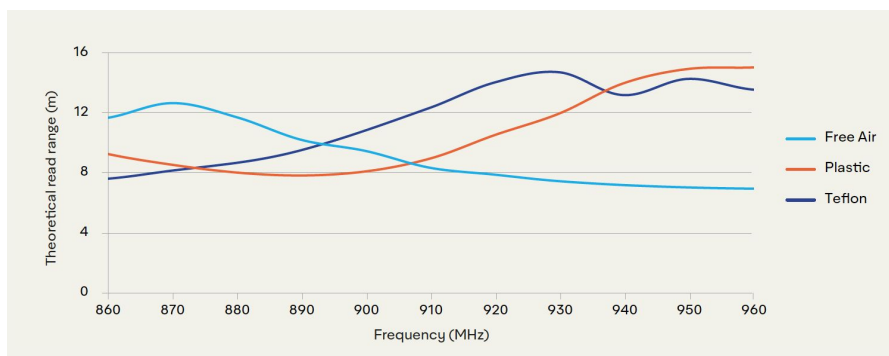
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Technical features

Chip	NXP UCODE 8	
EPC and User Memory	128-bit and n/a	
TID Memory	96-bit / 48-bit unique serial number	
Product Code	3007014	3007016
Delivery Format	Dry inlay	Label / Sticker
Die-Cut Dimension	–	47 x 31 mm / 1.90 x 1.20 in
Inlay Substrate	PET	PET
Face Sheet	Clear PET	Mid-gloss paper
Standard Pitch	34 mm / 1.339 in	34 mm / 1.339 in
Web Width	50 mm / 2 in	50 mm / 2 in
Core Size	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	18,000 pcs/reel 90,000 pcs/box	3,200 pcs/reel
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	
Certificates	ARC	

Orientation sensitivity

Read range

All graphs are indicative: performance in real life applications may vary.

Contact information

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REACH COMPLIANCE

RoHS

AVERY DENNISON

Avery Dennison
Smartrac
Product Data Sheet

AD-Eagle-U9-03-22-EN-DS

AD Eagle® U9

Overview

Frequency Band
UHF 860 - 960 MHz

Chip
NXP UCODE 9

Antenna Dimensions
44 x 28 mm / 1.73 x 1.10 in

International Standard
ISO 18000-63, EPC Class 1 Gen 2

Industry Segments
Apparel
Logistics

Applications
Supply Chain Management
Brand Protection
Home Essentials

RoHS
EU Directive 2011/65/EC and
Directive (EU) 2015/863

REACH
Regulation (EC) No. 1907/2006

Top read range for retail applications

AD Eagle® U9 is one of the smallest global UHF RFID inlays with superior global RF performance for apparel and retail applications. Having a compact size 44 x 28 mm which can be easily converted into end application usage, Eagle is available in dry, wet and label delivery formats.

AD Eagle® U9 equipped with NXP UCODE 9 offers top performance across different materials and challenging environments due to enhanced self adjust feature of IC which help to maximize product performance in challenging environments. NXP UCODE 9 has 96-bit EPC memory and improved read and write sensitivity and faster encoding speed compared to NXP UCODE 8.

AD Eagle® U9 with the NXP UCODE 9 IC, used in retail applications, is the smallest inlay with global performance currently available on the market that has passed ARC categories F, G, I, K, M, Q, N, L, W1, W2, W3, W4, W5, and W6.
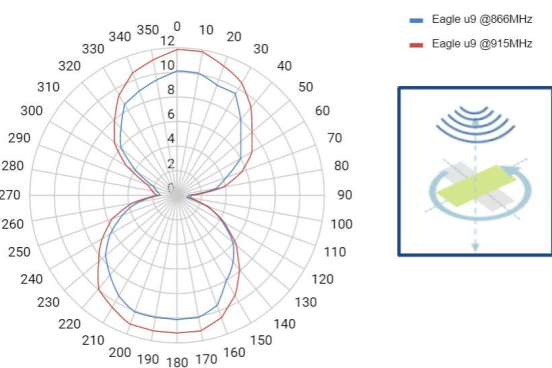
Our inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, especially in the retail environment.
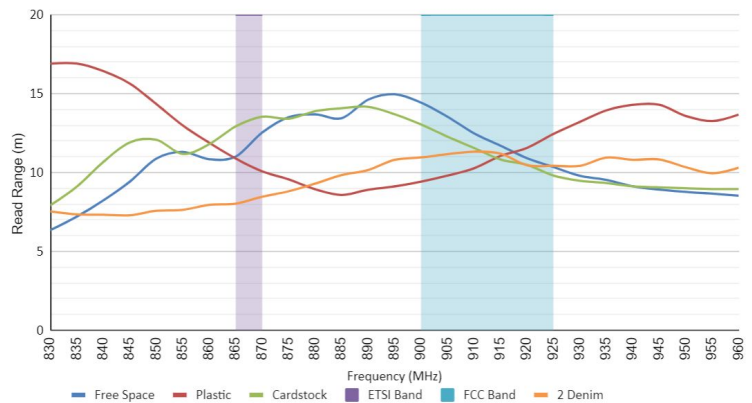
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Technical features

Chip	NXP UCODE 9		
EPC and User Memory	128-bit and 0-bit		
TID Memory	96-bit / 48-bit unique serial number		
Product Code*	3008111	3008110	3008112
Delivery Format	Dry inlay	Wet inlay	Label
Die-Cut Dimension	–	47 x 31 mm / 1.90 x 1.20 in	47 x 31 mm / 1.90 x 1.20 in
Inlay Substrate	PET	PET	PET
Face Sheet	-	-	Mid-gloss paper
Standard Pitch	34 mm / 1.339 in	34 mm / 1.339 in	34 mm / 1.339 in
Web Width	50 mm / 2 in	50 mm / 2 in	50 mm / 2 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	18,000 pcs/reel 90,000 pcs/box	15000 pcs/reel 30,000 pcs/box	3,200 pcs/reel 6,400 pcs/box
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F		
Certificates	ARC specs F, G, I, K, M, Q, N, L, W1, W2, W3, W4, W5, and W6.		

*Other product codes available upon request.

Orientation sensitivity

Read range

All graphs are indicative: performance in real life applications may vary.

Contact information
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Connect with us on:

Eagle™ M730

Overview

Frequency Band
UHF 860 - 960 MHz

Chip
Impinj M730/M750

Antenna Dimensions
44 x 28 mm / 1.70 x 1.10 in

International Standard
ISO 18000-63, EPC Class 1 Gen 2

Industry Segments
Apparel
Logistics

Applications
Supply Chain Management
Brand Protection
Home Essentials

RoHS
EU Directive 2011/65/EU and
Directive (EU) 2015/863

REACH
Regulation (EC) No. 1907/2006

Top read range for retail applications

Our Eagle™M730 is one of the smallest UHF RFID inlays with superior global RF performance for apparel and retail applications. Having a compact size 44 x 28 mm which can be easily converted into end application usage, Eagle is available in dry, wet and label delivery formats.

Eagle™ products are available with the Impinj M730 and M750 ICs, offering high performance across different materials and challenging environments due to enhanced adaptive RF tuning features. The Impinj M730 IC has 128-bit EPC memory, and the Impinj M750 IC has both 96-bit EPC memory and 32-bit user memory. Both Impinj ICs are compatible with the global GS1 UHF Gen2v2 standard, which ISO/IEC standardized as 18000-63.
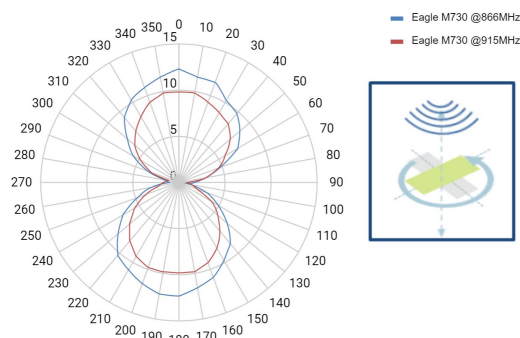
Eagle with both Impinj M730 and M750, is included on the approved retail application inlay list by the RFID Research Center (ARC) of the University of Auburn, and complies with categories F, G, I, K, M, Q, N, L, W1, W2, W3, W4, W5, and W6.

Our inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, especially in the retail environment.
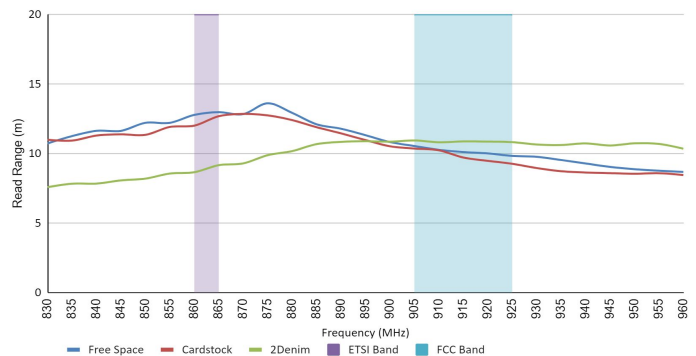
Technical features

Chip	Impinj M730/M750		
EPC and User Memory	128-bit and 0		
TID Memory	96-bit / 48-bit unique serial number		
Product Code	3008000	3007992	3007993
Delivery Format	Dry inlay	Wet inlay	Label
Die-Cut Dimension	–	47x31 mm / 1.85x1.22 in	47x31 mm / 1.85x1.22 in
Inlay Substrate	PET	PET	PET
Face Sheet	–	Clear PET	Mid-gloss paper
Standard Pitch	34 mm / 1.339 in	34 mm / 1.339 in	34 mm / 1.339 in
Web Width	50 mm / 2 in	50 mm / 2 in	50 mm / 2 in
Core Size	76 mm / 3 in	76 mm / 3 in	76 mm / 3 in
Quantity / Reel	18,000 pcs/reel 90,000 pcs/box	15,000 pcs/reel 30,000 pcs/box	3,200 pcs/reel 6,400 pcs/box
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F	-40 °C to 85 °C / -40 °F to 185 °F	-40 °C to 85 °C / -40 °F to 185 °F
Certificates	ARC		

Orientation sensitivity

- Eagle M730 @866MHz
- Eagle M730 @915MHz

Read range

Free Space — Cardstock — 2Denim — ETSI Band — FCC Band

All graphs are indicative: performance in real life applications may vary.

Contact information

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