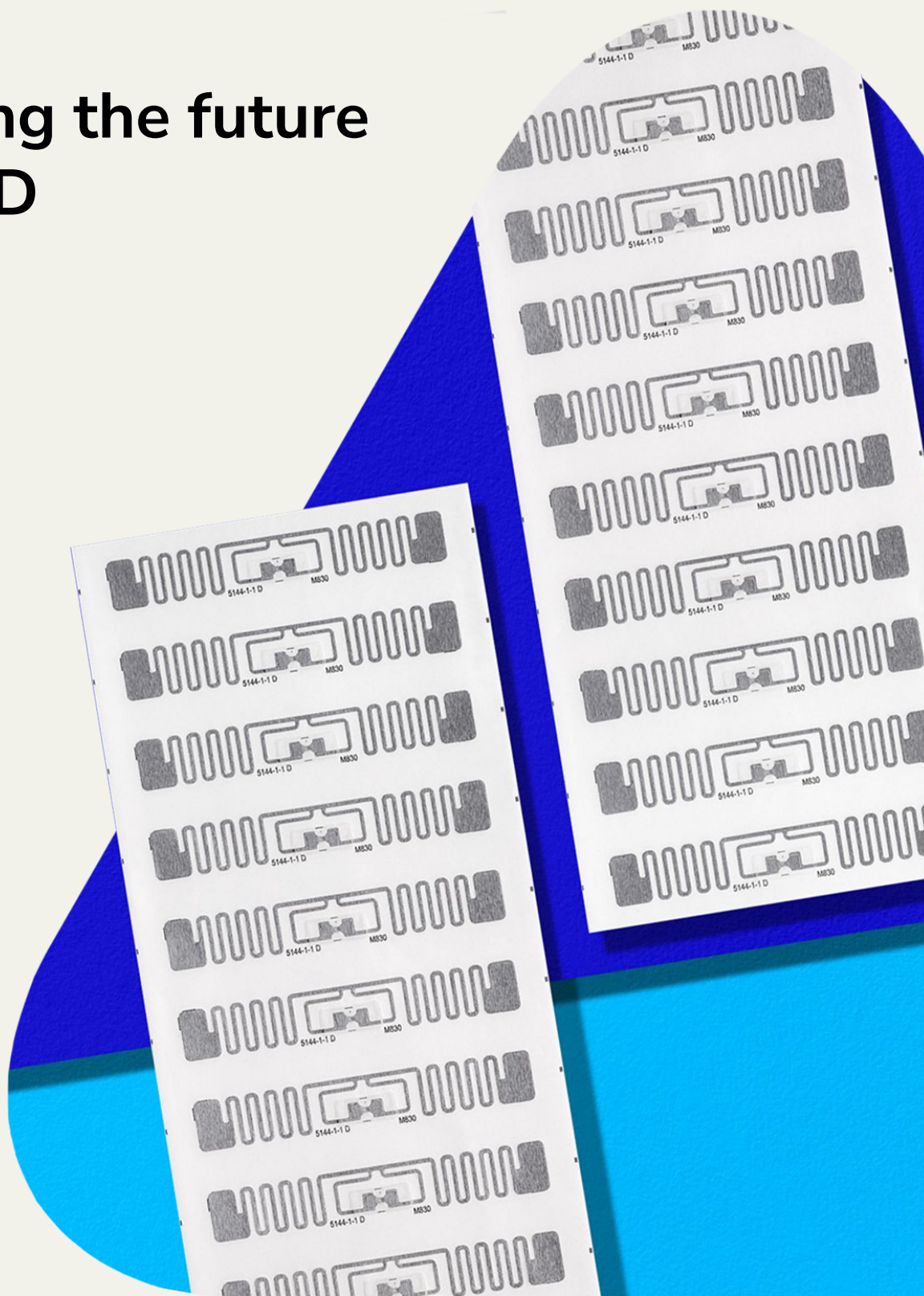


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Why choose Avery Dennison Smartrac?

As the world's largest RFID partner, we provide solutions for multiple industries, from retail and food, to healthcare and aviation.

Our integrated global RFID approach is proven to increase inventory accuracy, improve supply chain agility and enhance visibility across all channels.

When you choose Avery Dennison, you get field-proven inlay products, advanced research and testing capabilities, experienced engineering and technical resources, and, most importantly, a partner with a deep understanding of what it takes to make your application successful.

Sustainability is at the core of everything we do, from innovation and product design to development and production. The majority of our inlays now feature our patented SmartFace™ technology, which is one of the most sustainable solutions on the market, reducing your brand's environmental impact.

Applications



Item-level retail:
Apparel, accessories, cosmetics, jewelry, food and general retail



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Transportation: Automotive and aviation



Industrial logistics and manufacturing



Animal identification



Brand protection and product authentication



Supply chain, asset tracking, inventory and logistics



Contactless cards and tickets



Library, media, documents and files

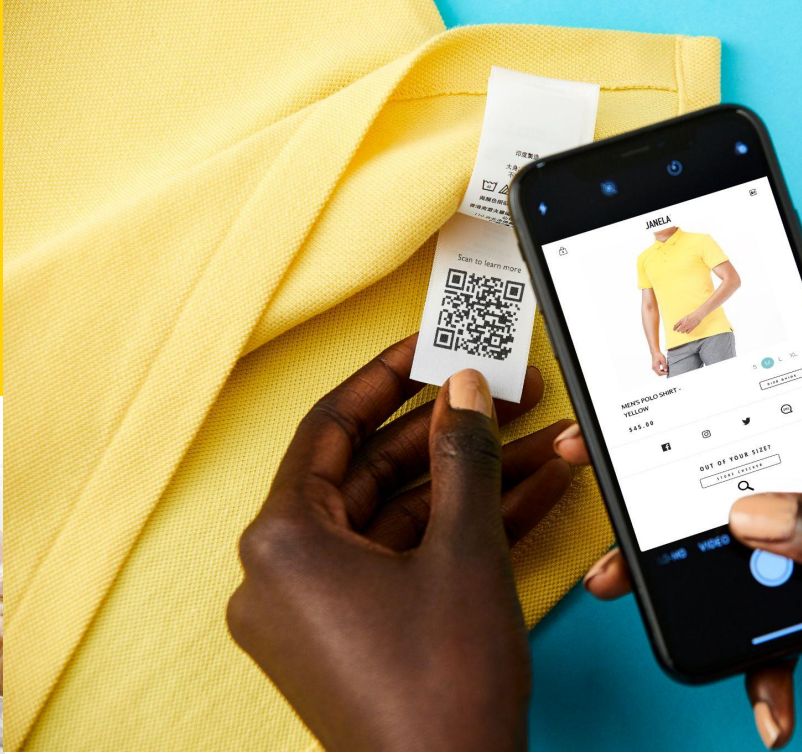
Sustainability



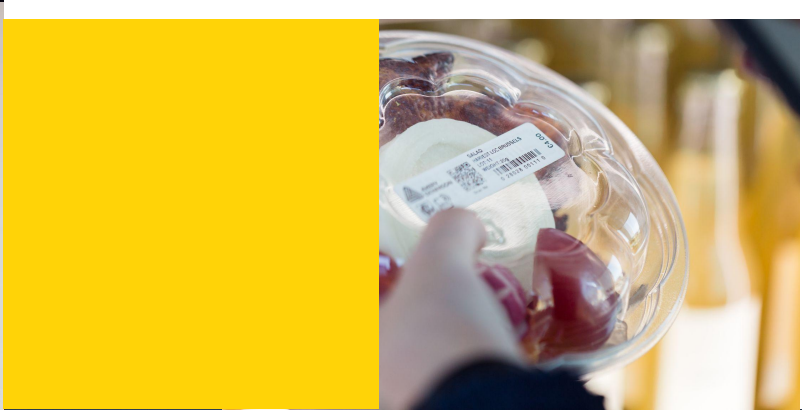
Our Pure portfolio of environmentally friendly inlays include a family of UHF RFID inlay designs that feature antennas made from pure aluminum in the final inlay construction.

Contact information
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North America: +1-866-903-7343
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Retail portfolio















Retail portfolio UHF RFID inlays

Design Family	Product Name	Design (not to scale)	Antenna Dimensions	Primary Segment	ARC Spec
AD-23x (AD Belt)	AD-239 Impinj M730 Impinj M750		70 x 14.5 mm 2.76 x 0.57 in	Apparel	F, I, L, O, Q, R, W2, W5, W6, Y
	AD-23x NXP UCODE 9		70 x 14.5 mm 2.76 x 0.57 in	Apparel	F, I, L, O, Q, R, W2, W5, W6, Y, Z
	 AD-23x U9 Pure 95™ NXP UCODE 9		70 x 14.5 mm 2.76 x 0.57 in	Apparel	F, I, L, O, Q, R, W2, W5, W6, Y, Z
	AD Belt Impinj M730 Impinj M750 NXP UCODE 9	  	70 x 14 mm 2.76 x 0.55 in 70 x 14 mm 2.76 x 0.55 in	Apparel	F, I, L, O, Q, R, W2, W5, W6, Y, Z F, I, L, O, Q, R, W2, W5, W6, Y, Z
 AD Belt Pure NXP UCODE 9		70 x 14 mm 2.76 x 0.55 in	Apparel	F, I, L, O, Q, R, W2, W5, W6, Y	
AD-33x (AD Belt Spec H)	AD-333 NXP UCODE 9		70 x 14.5 mm 2.76 x 0.57 in	Apparel	F, H, O, Q, R, W2, W5, W6, Y
	 AD-333 Pure 95™ NXP UCODE 9		70 x 14.5 mm 2.76 x 0.57 in	Apparel	F, H, O, Q, R, W2, W5, W6, Y
	AD-334 Impinj M730 Impinj M750		70 x 14.5 mm 2.76 x 0.57 in	Apparel	F, H, I, L, O, Q, R, W2, W5, W6, Y
	AD Belt H Impinj M730 Impinj M750		70 x 14.6 mm 2.76 x 0.58 in	Apparel	F, H, I, L, O, Q, R, W2, W5, W6, Y
AD Burst (AD-23x Slim)	AD-23x Slim NXP UCODE 9		70 x 10.5 mm 2.76 x 0.41 in	Apparel	F, I, L, O, Q, R, W2, W5, W6, Y
	AD Burst Impinj M830 Impinj M850	 	70 x 10.5 mm 2.76 x 0.41 in	Apparel	Results Pending
AD-35x	AD-350 NXP UCODE 8		76 x 6 mm 2.99 x 0.24 in	Apparel	I, Q
AD Longbow	AD Longbow NXP UCODE 9		70 x 8 mm 2.76 x 0.32 in	Apparel	F, I, L, O, Q, R, W2, W5, W6, Y

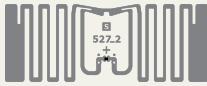


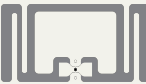
Retail portfolio UHF RFID inlays

Design Family	Product Name	Design (not to scale)	Antenna Dimensions	Primary Segment	ARC Spec
AD Nitro	AD Nitro NEL NXP UCODE 8		12 x 70 mm 0.47 x 2.76 in	Apparel	F, I, L, Q, R, W2, W5, W6, Y
AD Force WEL (AD-38x)	AD-386 Impinj M730 Impinj M750		50 x 30 mm 1.97 x 1.18 in	Apparel	F, I, L, Q, R, W2, W5, W6, Y
	AD-387 WEL NXP UCODE 9		50 x 30 mm 1.97 x 1.18 in	Apparel	F, I, L, Q, R, W2, W5, W6, Y
	AD Force Impinj M775		50 x 30 mm 1.97 x 1.18 in	Apparel	F, I, L, Q, R, W2, W5, W6, Y
	 AD Force Pure 95™ NXP UCODE 9		50 x 30 mm 1.97 x 1.18 in	Apparel	F, I, L, Q, R, W2, W5, W6, Y
AD Force NEL (AD-38x)	AD-387 NEL NXP UCODE 9		30 x 50 mm 1.18 x 1.97 in	Apparel	F, I, L, Q, W2, W5, W6, Y
AD Web	AD Web Impinj M730 Impinj M750		50 x 30 mm 1.97 x 1.18 in	Apparel	F, I, L, O, Q, R, W2, W5, W6, Y
	NXP UCODE 9		50 x 30 mm 1.97 x 1.18 in	Apparel	F, I, L, O, Q, R, W2, W5, W6, Y
	 AD Web Pure NXP UCODE 9		50 x 30 mm 1.97 x 1.18 in	Apparel	F, I, L, O, Q, R, W2, W5, W6, Y
	AD Quantum (AD-31x)	AD-311 Impinj M730 Impinj M750		41.4 x 29 mm 1.63 x 1.14 in	Apparel
	AD-312 NXP UCODE 9		41.4 x 29 mm 1.63 x 1.14 in	Apparel	F, I, Q, W2, W5
 AD-312 Pure 95™ NXP UCODE 9		41.4 x 29 mm 1.63 x 1.14 in	Apparel	F, I, Q, W2, W5	
	AD Quantum NXP UCODE 9		41.4 x 29 mm 1.63 x 1.142 in	Apparel	F, I, L, Q, R, W2, W5, W6, Y

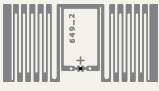
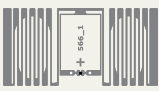






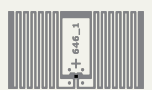




Retail portfolio UHF RFID inlays

Design Family	Product Name	Design (not to scale)	Antenna Dimensions	Primary Segment	ARC Spec
AD Eagle	AD Eagle® NXP UCODE 9		44 x 28 mm 1.73 x 1.10 in	Apparel	F, I, L, O, Q, R, W2, W5, W6, Y
	Impinj M730 Impinj M750	 	44 x 28 mm 1.73 x 1.10 in	Apparel	F, I, L, O, Q, R, W2, W5, W6, Y
					
AD Bolt (AD-32x)	AD-324 FCC NXP UCODE 8		41 x 16 mm 1.63 x 0.63 in	Apparel	F, Q, W2, W5, W6
	AD-325 FCC Impinj M730 Impinj M750		42.5 x 17 mm 1.67 x 0.67 in	Apparel	F, Q, W2, W5
	AD Bolt FCC Impinj M730		42.5 x 17 mm 1.67 x 0.67 in	Apparel	F, Q, W2, W5
	AD Bolt FCC NXP UCODE 9		42.5 x 17 mm 1.67 x 0.67 in	Apparel	F, Q, W2, W5
	AD-327 FCC NXP UCODE 9		42.5 x 17 mm 1.67 x 0.67 in	Apparel	F, Q, W5
	AD-327 ETSI NXP UCODE 9		41 x 16 mm 1.63 x 0.63 in	Apparel	
	 AD-327 ETSI Pure 95™ NXP UCODE 9		41.4 x 16 mm 1.63 x 0.63 in	Apparel	



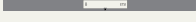

Retail portfolio UHF RFID inlays

Design Family	Product Name	Design (not to scale)	Antenna Dimensions	Primary Segment	ARC Spec
AD Miniweb	AD Miniweb FCC Impinj M730 Impinj M750		42 x 16 mm 1.65 x 0.63 in	Apparel	F, O, Q, W2, W5, W6
	NXP UCODE 9		42 x 16 mm 1.65 x 0.63 in	Apparel	F, O, Q, W2, W5, W6
	AD Miniweb ETSI NXP UCODE 9		42 x 16 mm 1.65 x 0.63 in	Apparel	I
	 AD Miniweb ETSI Pure NXP UCODE 9		42 x 16 mm 1.65 x 0.63 in	Apparel	I
	AD Miniweb Global Impinj M730 Impinj M750		42 x 16 mm 1.65 x 0.63 in	Apparel	I, Q
	Impinj M830		42 x 16 mm 1.65 x 0.63 in	Apparel	Results Pending
AD Astro WEL (AD-37x)	AD-372 NXP UCODE 8		53 x 19 mm 2.09 x 0.75 in	Apparel	F, Q, W5
	AD Astro NXP UCODE 9 PFL Format Only		53 x 19 mm 2.09 x 0.75 in	Apparel	
AD Astro NEL (AD-37x)	 AD Astro NEL Pure 95™ NXP UCODE 9		19 x 53 mm 0.75 x 2.09 in	Apparel	F, I, L, Q, W2, W5
AD Cosmic (AD-173)	AD Cosmic ETSI NXP UCODE 9		27 x 14 mm 1.06 x 0.55 in	Apparel	
AD Dazzle (AD-30x)	AD-302 Impinj M730 Impinj M750		30 x 15 mm 1.20 x 0.60 in	Apparel	Q
	AD Dazzle NXP UCODE 9		30 x 15 mm 1.20 x 0.60 in	Apparel	Q




Retail portfolio UHF RFID inlays

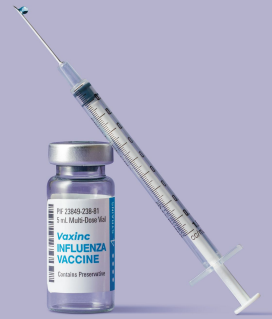
Design Family	Product Name	Design (not to scale)	Antenna Dimensions	Primary Segment	ARC Spec
AD Accessory	AD Accessory Impinj M730 Impinj M750		30 x 15 mm 1.20 x 0.60 in	Apparel Beauty	Q
	AD Accessory NXP UCODE 9		30 x 15 mm 1.20 x 0.60 in	Apparel Beauty	Q
AD Dynamo (AD-13x)	AD Dynamo NXP UCODE 9		45 x 7.5 mm 1.7 x 0.26 in	Apparel	Q
AD-40x	AD-400 NXP UCODE 9		23 x 23 mm 0.91 x 0.91 in	Apparel	
AD-141	AD-141 NXP UCODE 9		4 x 28 mm 0.16 x 1.10 in	Beauty	
AD-18x	AD-183 NXP UCODE 9		Ø 26 mm Ø 1.02 in	Beauty	
AD Presto (AD-19x)	AD-192 Impinj M730 Impinj M750		22 x 12.5 mm 0.86 x 0.49 in	Beauty	
	AD Presto NXP UCODE 9		22 x 12.5 mm 0.86 x 0.49 in	Beauty	
AD Bling	AD Bling Impinj M730 Impinj M750		22 x 12.5 mm 0.9 x 0.5 in	Beauty	
AD-83x	AD-834 NXP UCODE 9		Ø 13 mm Ø 0.51 in	Beauty	
AD-16x	AD-164 NXP UCODE 9		60 x 4 mm 2.36 x 0.16 in	Beauty	
AD-251 r6-P	AD-251 ETSI Impinj Monza R6-P		95 x 14.5 mm 3.74 x 0.57 in	Food Microwave Resistant	
	AD-251 FCC Impinj Monza R6-P		95 x 13 mm 3.74 x 0.52 in	Food Microwave Resistant	

Retail portfolio On-Metal tags

Design Family	Product Name	Design (not to scale)	Tag Dimensions	Primary Segment	ARC Spec
AD-45x	AD-456 ETSI NXP UCODE 8		64 x 6 mm 2.52 x 0.24 in 64 x 18 mm 2.52 x 0.71 in	Beauty Food	
	AD-456 FCC NXP UCODE 8		64 x 6 mm 2.52 x 0.24 in 64 x 18 mm 2.52 x 0.71 in	Beauty Food	
	AD-457 ETSI NXP UCODE 9		64 x 6 mm 2.52 x 0.24 in 64 x 18 mm 2.52 x 0.71 in	Beauty Food	
	AD-457 FCC NXP UCODE 9		64 x 6 mm 2.52 x 0.24 in 64 x 18 mm 2.52 x 0.71 in	Beauty Food	

Retail portfolio - Combo tags UHF + EAS

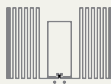










Design Family	Product Name	Design (not to scale)	Antenna Dimensions	Primary Segment	ARC Spec
AD-36x	AD-366 Dual UHF + EAS NXP UCODE 9		73.1 x 37.7 mm 2.88 x 1.48 in	Apparel	F, I, L, Q
AD Defend (AD-369u9)	AD Defend NXP UCODE 9		66 x 27 mm 2.60 x 1.06 in	Apparel	
AD Fusion U9	AD Fusion NXP UCODE 9		73 x 37 mm 2.87 x 1.46 in	Apparel	


















Industrial portfolio



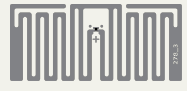
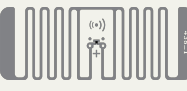
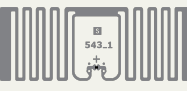
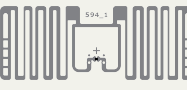



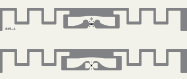








Industrial Portfolio UHF RFID inlays

Design Family	Product Name	Design (not to scale)	Antenna Dimensions	Primary Segment	ARC Spec
AD-15x	AD-151 NXP G2iM		22 x 15 mm 0.90 x 0.60 in	Automotive	
AD-22x	AD-226 NXP G2iM		95 x 8.15 mm 3.74 x 0.32 in	Automotive	
AD-23x (AD Belt)	AD Belt NXP UCODE 7XM		70 x 10 mm 2.76 x 0.40 in	Aviation Automotive	
	NXP UCODE 9XM		70 x 14 mm 2.76 x 0.55 in	Automotive	
	AD Belt HighTemp NXP UCODE 7XM		70 x 10 mm 2.76 x 0.40 in	Automotive	
AD-37x	AD-373 NXP UCODE 7XM		53 x 19 mm 2.09 x 0.75 in	Aviation Automotive	
AD-38x	AD-380 NXP G2iM		50 x 30 mm 1.97 x 1.18 in	Automotive	
AD-55x	AD-553 NXP UCODE 8		38 x 76 mm 1.50 x 2.99 in	Aviation	U
	AD-556 Impinj M730 Impinj M750		38 x 46 mm 1.50 x 1.80 in	Aviation	
AD-66x	AD-662 NXP UCODE DNA		90 x 19 mm 3.54 x 0.75 in	Automotive	
	AD-663 NXP UCODE 7XM		90 x 19 mm 3.54 x 0.75 in	Automotive	

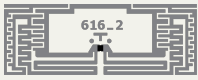
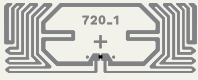



Industrial Portfolio UHF RFID inlays

Design Family	Product Name	Design (not to scale)	Antenna Dimensions	Primary Segment	ARC Spec
AD Dogbone	AD Dogbone® Impinj M730 Impinj M750		94 x 24 mm 3.70 x 0.95 in	Automotive	
	Impinj M780 Impinj M781		94 x 24 mm 3.70 x 0.95 in	Automotive	
	NXP UCODE 7XM		94 x 24 mm 3.70 x 0.95 in	Automotive	
	NXP UCODE 9		94 x 24mm 3.70 x 0.95 in	Industry	
	 AD Dogbone® Pure NXP UCODE 9		94 x 24 mm 3.70 x 0.95 in	Automotive	
	AD Dogbone® High Temp NXP UCODE 7XM		94 x 24 mm 3.70 x 0.95 in	Automotive	
AD Dot	AD Dot Impinj Monza R6-P		3 x 3 mm 0.118 x 0.118 in	Industry	
AD Fly	AD Fly NXP UCODE 7XM		12 x 12 mm 0.5 x 0.5 in	Automotive Healthcare	
AD G7	AD G7 NXP UCODE 7XM		100 x 20 mm 3.94 x 0.79 in	Automotive	
AD Grille	AD Grille NXP UCODE 7XM		22 x 22 mm 0.87 x 0.87 in	Automotive	
	NXP UCODE 9		22 x 22 mm 0.87 x 0.87 in	Automotive	
AD Grip	AD Grip Impinj M730 Impinj M750		80 x 40 mm 3.15 x 1.58 in	Automotive	T
AD Minidose	AD Minidose Impinj M780		22 x 12 mm 0.87 x 0.47 in	Healthcare	
	NXP UCODE 8 NXP UCODE 9		12 x 22 mm 0.47 x 0.87 in	Healthcare	S









Industrial Portfolio UHF RFID inlays

Design Family	Product Name	Design (not to scale)	Antenna Dimensions	Primary Segment	ARC Spec
AD Miniweb	AD Miniweb NXP UCODE G2iM		40 x 18 mm 1.58 x 0.71 in	Automotive	
	NXP UCODE 7XM		40 x 15 mm 1.58 x 0.60 in	Automotive	
	NXP UCODE 9XM		42 x 16 mm 1.65 x 0.63 in	Automotive	
	AD Miniweb FCC Impinj M780		42 x 16 mm 1.65 x 0.63 in	Automotive	
AD Shortdipole	AD Shortdipole NXP UCODE 7XM		93 x 11 mm 3.66 x 0.43 in	Automotive	
	NXP UCODE 8		93 x 11 mm 3.66 x 0.43 in	Industry	P
AD Solar	AD Solar NXP UCODE 9		70 x 14.5 mm 2.76 x 0.57 in	Industry	
AD Squarewave	AD Squarewave Impinj M730 Impinj M750		93 x 11 mm 3.66 x 0.43 in	Industry	P
	Impinj M780 Impinj M781		93 x 11 mm 3.66 x 0.43 in	Automotive	
	NXP UCODE 9		93 x 11 mm 3.66 x 0.43 in	Automotive Industry	
	 AD Squarewave Pure NXP UCODE 9		93 x 11 mm 3.66 x 0.43 in	Automotive Industry	
AD Frog 3D	AD Frog 3D Impinj Monza 4QT		68 x 68 mm 2.68 x 2.68 in	Automotive Industry	
AD TracX	AD TracX Impinj M730 Impinj M750	 	50 x 50 mm 1.97 x 1.97 in	Automotive	
	Impinj M780 Impinj M781		50 x 50 mm 1.97 x 1.97 in	Automotive	


Industrial Portfolio UHF RFID inlays

Design Family	Product Name	Design (not to scale)	Antenna Dimensions	Primary Segment	ARC Spec
AD Trap	AD Trap Impinj M730 Impinj M750		8 x 22 mm 0.32 x 0.87 in	Beauty and Personal Care Healthcare	
	NXP UCODE 9		8 x 22 mm 0.32 x 0.87 in	Apparel Healthcare	
AD Twist	AD Twist NXP UCODE 7XM		27 x 27 mm 1.06 x 1.06 in	Aviation Automotive	
	NXP UCODE 8		23 x 23 mm 0.91 x 0.91 in	Automotive	
	NXP UCODE 9XM		23 x 23 mm 0.91 x 0.91 in	Automotive	


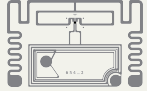
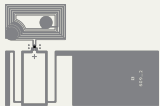


Industrial Portfolio On-metal tags

Design Family	Product Name	Design (not to scale)	Antenna Dimensions	Primary Segment	ARC Spec
AD 2Metal Rock	AD 2Metal Rock Impinj M781		95 x 40 mm 3.74 x 1.58 in	Automotive Logistics	
AD Midas Flagtag	AD Midas Flagtag [®] Impinj M730 Impinj M750		34.4 x 18 mm 1.36 x 0.71 in	Automotive Healthcare Logistics	
	Impinj M780		34.4 x 18 mm 1.36 x 0.71 in	Aviation Automotive Logistics	
	NXP UCODE 9XM		34 x 18 mm 1.34 x 0.71 in	Automotive	
	AD Midas Flagtag [®] ETSI NXP UCODE 7XM		47 x 18 mm 1.85 x 0.71 in	Automotive	
	 AD Midas Flagtag [®] Pure NXP UCODE 9		34 x 18 mm 1.34 x 0.71 in	Apparel Food	
AD Skyline	AD Skyline NXP UCODE 7XM		112 x 23 mm 4.41 x 0.91 in	Automotive Logistics	

Industrial Portfolio UHF RFID sensor inlays

Design Family	Product Name	Design (not to scale)	Antenna Dimensions	Primary Segment	ARC Spec
AD Dogbone	AD Temperature Sensor Dogbone® Axzon Magnus S3		89 x 24 mm 3.50 x 0.90 in	Healthcare Industrial Applications	

Industrial Portfolio - Dual frequency tags

Design Family	Product Name	Design (not to scale)	Antenna Dimensions	Primary Segment	ARC Spec
AD Belt DF	AD Belt DF EM4425		70 x 20 mm 2.76 x 0.79 in	Apparel Healthcare Logistics Supply Chain	
AD Medioweb DF	AD Medio Web DF EM4425		45 x 28.5 mm 1.77 x 1.12 in	Industrial	
AD Midas Flagtag (EM4425)	AD Midas Flagtag® DF Global EM4425		31.4 x 48 mm 1.24 x 1.89 in	Industrial	
AD Slim DF	AD Slim DF EM4425		74.2 x 10.7 mm 2.92 x 0.42 in	Apparel Healthcare Inventory Logistics Supply Chain	
AD Web DF	AD Web DF EM4425		50 x 30 mm 1.97 x 1.18 in	Apparel Inventory Logistics Supply Chain	



Industrial Portfolio HF inlays

Product Name	Design (not to scale)	Antenna Dimensions	Chip	Industry Segments
AD Band		23 x 70 mm 0.91 x 2.76 in	NXP ICODE ILT-M	Media and Document Management
AD Block		45 x 45 mm 1.77 x 1.77 in	NXP ICODE ILT-M	Inventory
AD Block Lite		47 x 47 mm 1.85 x 1.85 in	NXP ICODE SLIX / SLIX 2	Library Product Authentication
AD Bullseye™		Ø 33 mm 1.30 in	NXP ICODE SLIX / SLIX 2	Apparel, Aviation, Food, Healthcare, Inventory
AD Circus™		Ø 22 mm 0.87 in	NXP ICODE ILT-M	Healthcare Inventory
AD Circus™		Ø 18 mm 0.71 in	NXP ICODE SLIX / SLIX 2	Apparel, Beauty and Personal Care, Healthcare, Inventory
AD Circus™		Ø 18 mm 0.71 in	STM ST25TV02K	Apparel, Beauty and Personal Care, Healthcare, Inventory
AD Microblock		8 x 8 mm 0.32 x 0.32 in	NXP ICODE SLIX	Healthcare
AD Microtrack		20 x 10 mm 0.79 x 0.39 in	NXP ICODE SLIX	Healthcare
AD Miniblock		14.5 x 14.5 mm 0.57 x 0.57 in	NXP ICODE SLIX / SLIX 2	Beauty and Personal Care
AD Miniblock		14.5 x 14.5 mm 0.57 x 0.57 in	STM ST25TV02K	Beauty and Personal Care
AD Minitrack		14 x 31 mm 0.55 x 1.22 in	NXP ICODE SLIX / SLIX 2	Apparel Healthcare Inventory
AD Minitrack		14 x 31 mm 0.55 x 1.22 in	STM ST25TV02K	Apparel Healthcare Inventory
AD Racetrack		45 x 76 mm 1.77 x 2.99 in	NXP ICODE SLIX / SLIX 2	Media and Document Management
AD Stingray		Ø 105 mm 4.13 in	NXP ICODE SLIX / SLIX 2	


Industrial Portfolio NFC inlays

Product Name	Design (not to scale)	Antenna Dimensions	Chip	Industry Segments
AD Bullseye™ NFC		Ø 35 mm 1.38 in	NXP NTAG213 NXP NTAG216	Apparel, Aviation, Food, Healthcare, Inventory, Supply Chain
AD Bullseye™ On-Metal		Ø 35 mm 1.38 in	NXP NTAG213	Apparel, Food, Healthcare, Inventory
AD Bullseye™ Pro		Ø 35 mm 1.38 in	NXP NTAG424 DNA	Apparel, Aviation, Food, Healthcare, Inventory Supply Chain
AD Circus™ Flex		Ø 20 mm 0.79 in	NXP NTAG213	Apparel, Aviation, Food, Inventory, Supply Chain
AD Circus™ Mini		Ø 16 mm 0.63 in	NXP NTAG213	Apparel, Beauty and Personal Care, Food, Inventory
AD Circus™ NFC		Ø 20 mm 0.79 in	NXP NTAG210 Micro	Apparel, Aviation, Food, Healthcare, Inventory, Supply Chain
AD Circus™ NFC		Ø 20 mm 0.79 in	NXP NTAG213 NXP NTAG216	Apparel, Beauty and Personal Care, Food, Healthcare, Inventory, Supply Chain
AD Circus™ NFC		Ø 20 mm 0.79 in	ST25TN512 ST25TN01K	Apparel, Beauty and Personal Care, Food, Healthcare, Inventory, Supply Chain
AD Circus™ On-Metal		Ø 20 mm 0.79 in	NXP NTAG213	Apparel, Food, Healthcare, Inventory
AD Circus™ Pro		Ø 20 mm 0.79 in	EM 4332 NXP NTAG424 DNA	Apparel, Aviation, Food, Healthcare, Inventory Supply Chain
AD Circus™ Tamper Loop		20 x 50 mm 0.79 x 2.0 in	NXP NTAG213 TT	Healthcare Food
AD Midas NFC		10 x 17 mm 0.39 x 0.67 in	NXP NTAG210 Micro NXP NTAG213	Apparel
AD Midas+ NFC		11.5 x 19 mm 0.45 x 0.75 in	NXP NTAG210 Micro NXP NTAG213	Apparel
AD Midas+ NFC		11.5 x 19 mm 0.45 x 0.75 in	ST25TN512 ST25TN01K	Apparel
AD Midas Slim		17 x 8.5 mm 0.67 x 0.34 in	NXP NTAG210 Micro NXP NTAG213	Food

Industrial Portfolio NFC inlays

Product Name	Design (not to scale)	Antenna Dimensions	Chip	Industry Segments
AD Minitrack NFC		14 x 31 mm 0.55 x 1.22 in	NXP NTAG210 Micro NXP NTAG213	Apparel
AD Minitrack NFC		31 x 14 mm 1.22 x 0.55 in	ST25TN512 ST25TN01K	Apparel

Industrial Portfolio TT Sensor Plus 2 tags

Product Name	Design (not to scale)	Tag Dimensions	Chip	Industry Segments
AD-TT Sensor Plus 2		68 x 26 x 3.5 mm 2.68 x 1.02 x 0.14 in	NXP NHS3100	Logistics Healthcare Food












UHF RFID hard tags

Product Name	Design (not to scale)	Hard Tag Dimensions	Chip	Industry Segments
AD Maxdura® Tire Tag		43 x 2.0 x 2.00 mm 1.69 x 0.07 x 0.07	Monza M730 Higgs 9	Automotive Industrial Applications
AD Eartrace® Male Flag		60 x 76 mm 2.36 x 2.99 in	Impinj Monza R6-P	Animal Identification
AD Maxdura® Brick		39 x 13 mm 1.54 x 0.51 in	Alien Higgs 9	Automotive Industrial Applications Logistics
AD Maxdura® Ceramic		5 x 5 mm 0.20 x 0.20 in (±0.5 mm) many sizes available	Alien Higgs 3	Automotive Industrial Applications Logistics
AD Maxdura® Flex		124 x 30 mm 4.88 x 1.18 in	Alien Higgs 9	Automotive Industrial Applications Logistics
AD Maxdura® Keg Dual		53 x 43 mm 2.09 x 1.69 in	Impinj Monza R6-P NXP ICODE SLIX2	Food Industrial Applications Logistics
AD Maxdura® Keg Embedded		10 x 60 mm 0.39 x 2.36 in	Impinj Monza R6-P	Food Industrial Applications Logistics
AD Maxdura® Long Range		150 x 25 mm 5.91 x 0.98 in	Alien Higgs 9 Impinj Monza 4E	Automotive Industrial Applications Logistics
AD Maxdura® Outdoor		150 x 25 mm 5.91 x 0.98 in	Alien Higgs 9	Automotive Industrial Applications Logistics
AD Tagmicro-Tx3D		5 x 5 mm 0.20 x 0.20 in	ASIC 16k	Automotive
AD Tagmicro-TxFN		5 x 5 mm 0.20 x 0.20 in	ASIC 4k ASIC 8k	Automotive



NFC / HF hard tags

Product Name	Design (not to scale)	Hard Tag Dimensions	Chip	Industry Segments
AD Glass Tag NFC		Ø 2.12 x 12 mm 0.08 x 0.47 in	NXP ICODE SLIX 2 NXP ICODE SLIX-L NXP NTAG216	Industrial Applications Healthcare Sports and Events
AD HAT NFC Dongle		Ø 30 mm 1.18 in	NXP NTAG213	Animal Identification Industrial Applications
AD Maxdura® Case		51 x 51 mm 2.01 x 2.01 in	NXP ICODE SLIX	Automotive Industrial Applications Logistics
AD Maxdura® Disc		Ø 15 mm - 0.59 in Ø 20 mm - 0.78 in Ø 30 mm - 1.18 in Ø 50 mm - 1.97 in	ATMEL ATA5577 EM 4237 SLIC Fujitsu FRAM 2k rev.C NXP ICODE SLIX NXP ICODE SLIX 2	Automotive Healthcare Industrial Applications Logistics
AD Maxdura® Keg Dual		53 x 43 mm 2.09 x 1.69 in	Impinj Monza R6-P NXP ICODE SLIX2	Food Industrial Applications Logistics
AD Maxdura® Laundry		Ø 16 mm 0.63 in	EM 4033 DFN	Apparel Industrial Applications Logistics
AD Maxdura® Mini		Ø 6 mm 0.24 in	NXP ICODE SLIX	Automotive Industrial Applications Logistics

LF hard tags

Product Name	Design (not to scale)	Hard Tag Dimensions	Chip	Industry Segments
AD Glass Tag AES		Ø 3.15 x 13.30 mm 0.12 x 0.52 in	ASIC	Automotive Immobilizer Systems Industrial Applications
AD Eartrace® Air Coil		Max. Inner Diameter Ø 24.1 mm / 0.95 in Ø 20 mm / 0.79 in Ø 23 mm / 0.91 in Ø 26 mm / 1.02 in Ø 27 mm / 1.09 in Ø 20.8 mm / 0.81 in Ø 25.4 mm / 1 in Ø 27.8 mm / 1.09 in Min. Outer Diameter Ø 20 mm / 0.79 in Ø 15 mm / 0.59 in Ø 19.5 mm / 0.77 in Ø 17.1 mm / 0.67 in Ø 23.8 mm 0.94 in Ø 15 mm / 0.59 in Ø 19.9 mm / 0.78 in Ø 23.8 mm / 0.94 in	EM 4305 SIC279	Animal Identification
AD Glass Tag Animal ID		Ø 1.25 x 8.30 mm / 0.05 x 0.33 in Ø 1.41 x 8.30 mm / 0.06 x 0.33 in Ø 2.12 x 12 mm / 0.08 x 0.47 in Ø 3.85 x 23 mm / 0.15 x 0.91 in Ø 3.85 x 32 mm / 0.15 x 1.26 in	EM 4305 SIC279 Other IC's on request	Animal Identification
AD Glass Tag Industry		Ø 2.12 x 12 mm / 0.08 x 0.47 in Ø 3.15 x 13.30 mm / 0.12 x 0.52 in Ø 3.85 x 32 mm / 0.15 x 1.26 in	NXP HITAGS 256 NXP HITAGS 2048 Unique	Industrial Applications Logistics
AD Intrace® Cannula		Ø 1.41 x 8.30 mm / 0.06 x 0.33 in Ø 1.41 x 10 mm / 0.06 x 0.39 in Ø 2.12 x 12 mm / 0.08 x 0.47 in	EM 4305	Animal Identification
AD Intrace® Syringe		Ø 1.25 x 8.30 mm / 0.05 x 0.33 in Ø 1.41 x 8.30 mm / 0.06 x 0.33 in Ø 1.41 x 10 mm / 0.06 x 0.39 in Ø 2.12 x 12 mm / 0.08 x 0.47 in	EM 4305	Animal Identification
AD Glass Tag Tagcoder Lite II		Ø 3.15 x 13.30 mm 0.12 x 0.52 in	ASIC	Automotive Industrial Applications
AD Tagmicro-Tx3D		5 x 5 mm 0.20 x 0.20 in	ASIC 16k	Automotive
AD Tagmicro-TxFN		5 x 5 mm 0.20 x 0.20 in	ASIC 4k ASIC 8k	Automotive
AD Tagreader IC		9.93 x 5.99 mm 0.39 x 0.23 in	ASIC	Automotive
AD Glass Tag Unique Automotive		Ø 3.15 x 13.30 mm 0.12 x 0.52 in	EM 4102	Automotive Industrial Applications

LF readers

Product Name	Design (not to scale)	Hard Tag Dimensions	Industry Segments
AD Intrace® Handheld Reader RH5		155 x 82 mm 6.10 x 3.23 in	Animal Identification
AD Eartrace® Handheld Reader RH7		660 x 65 mm 25.98 x 2.56 in	Animal Identification

UHF IC memory

	Name	EPC Memory	User Memory	TID Prefix	TID Memory
Magnus S2	Axzon S2	128-bit	144-bit	E282 402	64 bits of serialized TID with 48-bit serial number
Magnus S3	Axzon S3	128-bit	176-bit	E282 403	64 bits of serialized TID with 48-bit serial number
H3	Alien Higgs 3	96-bit	512-bit	E200 3412	64-bit unique TID
Echo-V	EM4425	96 bit / up to 480 bit	2K-bit	E280 B11	96-bit (UHF) / 64-bit (HF) overlapping
R6	Impinj Monza R6	96-bit	-	E280 1160	96 bits of serialized TID with 48-bit serial number
R6-P	Impinj Monza R6-P	96/128-bit	64/32-bit	E280 1170	96 bits of serialized TID with 48-bit serial number
M4QT	Impinj Monza 4QT	128-bit	512-bit	E280 1105	96 bits of serialized TID with 48-bit serial number
M730	Impinj M730	128-bit	-	E280 1191	96 bits of serialized TID with 48-bit serial number
M750	Impinj M750	96-bit	32-bit	E280 1190	96 bits of serialized TID with 48-bit serial number
M775	Impinj M775	128-bit	32-bit	E2C0 11A2	96 bits of serialized TID with 48-bit serial number
M780	Impinj M780	496-bit	128-bit	E280 11C0	96 bits of serialized TID with 48-bit serial number
M781	Impinj M781	128-bit	512-bit	E280 11C1	96 bits of serialized TID with 48-bit serial number
M830	Impinj M830	128-bit	-	E280 11B0	96 bits of serialized TID with 48-bit serial number
M850	Impinj M850	96-bit	32-bit	E280 11B0	96 bits of serialized TID with 48-bit serial number
G2iM	NXP G2iM	256-bit	512-bit	E200 680A	96 bits of serialized TID with 48-bit serial number
U7xm-2k	NXP UCODE 7xm	448-bit	2K-bit	E280 6F12	96 bits of serialized TID with 48-bit serial number
U8	NXP UCODE 8	128-bit	-	E280 6894	96 bits of serialized TID with 48-bit serial number
U9	NXP UCODE 9	96-bit	-	E280 6895	96 bits of serialized TID with 48-bit serial number
U9xe	NXP UCODE 9xe	128-bit	-	E280 6A16	96 bits of serialized TID with 48-bit serial number
U9xm	NXP UCODE 9xm	256-bit	624-bit	E280 6897	96 bits of serialized TID with 48-bit serial number
UDNA	NXP UCODE DNA	224-bit	3K-bit	E2C0 6892	96 bits of serialized TID with 48-bit serial number

HF, NFC IC memory

	Name	User Memory
SLIX	NXP ICODE SLIX	896-bit
SLIX2	NXP ICODE SLIX2	2528-bit
NTAG210 μ	NXP NTAG210 μ	48-bytes
NTAG213	NXP NTAG213	144-bytes
NTAG216	NXP NTAG216	888-bytes
NTAG213 TT	NXP NTAG213 TT	144-bytes
ILT-M	NXP ICODE ILT-M	512-bit
NTAG424 DNA	NXP NTAG424 DNA	416-bytes
EM 4332	Em linq (EM 4332)	208-bytes
ST25TN512	STM ST25TN512	64-bytes
ST25TN01K	STM ST25TN01K	160-bytes
ST25TV512C	STM ST25TV512C	512-bit
ST25TV02K	STM ST25TV02K	2048-bit

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Care and handling: RFID inlays are sensitive to ESD. Observe standard industry practices relating to electronics / RFID to keep environmental impact and static charge to a minimum.

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