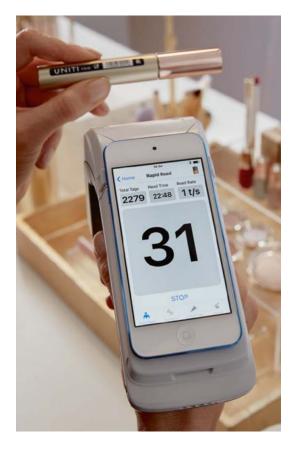
L Solutions









Intelligent Labels Making Things Smarter April, 2019



Why choose Avery Dennison RFID?

As the world's largest UHF RFID partner, we provide solutions for multiple industries, from retail apparel 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 RFID, 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.

For additional information, please contact: Telephone 866-903-RFID (7343) / +1-770-965-0807 Email rfid.info@averydennison.com

Applications

- Item-level retail: Apparel, accessories, cosmetics, jewelry, food and general retail
- Healthcare: Medical and pharmaceutical
- Transportation: Automotive and aviation
- Industrial logistics and manufacturing
- Brand protection and product authentication
- Supply chain, inventory and logistics
- Contactless cards and tickets
- Library, media, documents and files

With Avery Dennison RFID, you get the benefit of our relationships with best-in-class chip and reader manufacturers, label and tag converters and systems integrators across the globe. We can support you with the most challenging RFID projects across all channels, offering the total solution to meet your business needs.



UHF RFID Inlays

860-960 MHz, ISO-18000-6C, EPC Class 1 Gen 2

NAME	DESIGN	ANTENNA SIZE	СНІР	COMMON MARKETS & APPLICATIONS				
AD-160			U7					
AD-163		2.36 x 0.16 in 60 x 4 mm	U8	 Cosmetics and other item-level retail Personal care products 				
AD-171		1.06 x 0.55 in 27 x 14mm	М5	 Apparel and other item-level retail Pharmaceutical and healthcare 				
AD-173	الدعا	1.06 x 0.55 in 27 x 14mm	U8	 Apparel and other item-level retail Pharmaceutical and healthcare 				
AD-172	lsel	0.87 x 0.49 in 22 x 12.5 mm	U7	JewelrySupply chain, inventory and logistics				
AD-180		1.02 in Diameter 26 mm Diameter	U7	 Cosmetics and item-level retail 				
AD-226		3.74 x 0.32 in 95 x 8.15 mm	G2iM	Apparel and other item-level retail				
AD-229		3.74 x 0.32 in 95 x 8.15 mm	R6/R6-P	 Supply chain, inventory and logistics Returnable transport units (RTUs) 				
AD-236		2.76 x 0.57 in 70 x 14.5 mm	U7					
AD-237		2.76 x 0.57 in 70 x 14.5 mm	R6/R6-P	 Supply chain, inventory and logistics Apparel and other item-level retail Home essentials 				
AD-238		2.76 x 0.57 in 70 x 14.5 mm	U8					
AD-301		1.18 x 0.59 in 30 x 15 mm	R6/R6-P	Children accessoriesFashion jewelry and sunglasses				
AD-310	(Fe)	1.63 x 1.14 in 41.4 x 29 mm	U8	 Apparel and other item-level retail Supply chain, inventory and logistics Home essentials 				
AD-320 ETSI AD-320 FCC	MGƏM		U7					
AD-321 ETSI AD-321 FCC		1.63 x 0.63 in 41.4 x 16 mm	R6/R6-P	 Supply chain, inventory and logistics Apparel and other item-level retail Pharmaceutical and healthcare 				
AD-324 ETSI AD-324 FCC			U8					

UHF RFID Inlays 800-960 MHz, ISO-18000-6C, EPC Class1 Gen 2

NAME	DESIGN	ANTENNA SIZE	СНІР	COMMON MARKETS & APPLICATIONS
AD-350		2.99 x 0.236 in 76 x 6 mm	U8	 Apparel and other item-level retail
AD-370			U7	Apparel and other item-level retail
AD-372	١	0.75 x 2.09 in 53 x 19 mm	U8	 Also available in narrow-edge leading format
AD-373			U7XM	Aviation asset trackingAutomotive
AD-380			G2iM	Complexity in a state of the initial
AD-383	169.1	1.97 x 1.18 in	U7	 Supply chain, inventory and logistics Industrial and automotive Apparel and other item-level retail
AD-384		50 x 30 mm	R6/R6-P	 Home essentials AD-383 is also available in narrow-edge leading format
AD-385			U8	
AD-454		2.75 x 0.75 in 70 x 19 mm (label dimensions)	R6-P	 Metal and Liquids Industrial & Electronics Available in label format only
AD-456		2.52 x 0.709 in 64 x 6 mm (label dimensions)	U8	 Metal and Liquids Food & Beauty Available in label format only
AD-550	G	1.5 x 2.99 in 38 x 76 mm	М5	Aviation baggage trackingSupply chain, inventory and logistics
AD-661			R6/R6-P	
AD-662		3.55 x 0.75 in	UCODE DNA	 Automotive & glass
AD-663		90 x 19 mm	U7XM/U7XM+	 Personal ID Badges & race timing
AD-665			U8	
AD-680	ς	1.97 x 1.97 in 50 x 50 mm	R6/R6-P	 Supply chain management Package tracking
AD-681		1.97 x 1.97 in 50 x 50 mm	M4D/M4QT/M4i	 Asset tracking
AD-806	<u>F</u>	0.63 x 0.63 in 16 x 16 mm	U7	Healthcare and item-levelSupply chain, inventory and logistics
AD-810		0.63 in Diameter 16 mm Diameter	R6	 Pharmaceutical and healthcare Cosmetics and other item-level retail
AD-850	Ó	0.406 in Diameter 10.3 mm Diameter	M4QT	Pharmaceutical and healthcareNear-field applications

HF RFID Inlays

13.56 MHz, ISO-15693, 18000-3 Mode 1

NAME	DESIGN	GN SIZE CHIP		USER MEMORY	COMMON APPLICATIONS
AD-709x		1.85 x 1.85 in 47 x 47 mm		896 bit EEPROM Read / Write	 Library, media, documents and files
AD-714x		1.77 x 3 in 45 x 76 mm	NXP ICODE SLIX	896 bit EEPROM Read / Write	 Contactless cards and tickets Library, media, documents and files
AD-730x	B	1.22 x .55 in 31 x 14 mm	NXP ICODE SLIX	896 bit EEPROM Read / Write	 Pharmaceutical and healthcare

NFC RFID Inlays 13.56 MHz, ISO-14443, Type A

NAME	DESIGN	SIZE	CHIP	USER MEMORY	COMMON APPLICATIONS
AD-721		0.827 in (diameter) 21 mm (diameter)	NXP NTAG 213	144 bytes Read / Write	
AD-740		1.50 x 0.89 in 38 x 22.5 mm	NXP Ultralight EV1	384 bit Read / Write	 Retail environment Print media Miscellaneous applications
AD-750		0.709 x 0.315 in 18 x 8 mm	NXP NTAG 213	144 bytes Read / Write	

UHF IC Memory

	NAME	EPC MEMORY	USER MEMORY	TID MEMORY				
M4D	Impinj® Monza® 4D	128-bit	32-bit	48-bit unique serialized TID number				
M4i	Impinj® Monza® 4i	256-bit	480-bit	48-bit unique serialized TID number				
M4QT	Impinj® Monza® 4QT	128-bit	512-bit	48-bit unique serialized TID number				
M5	Impinj® Monza® 5	128-bit	32-bit	48-bit unique serialized TID number				
R6	Impinj® Monza® R6	96-bit	0	48-bit unique serialized TID number				
R6-P	Impinj® Monza® R6-P	96/128-bit	64/32-bit	48-bit unique serialized TID number				
G2iM	NXP G2iM	256-bit 512-bit		48-bit unique serialized TID number				
U7	NXP UCODE 7	XP UCODE 7 128-bit 0		48-bit unique serialized TID number				
U7XM	NXP UCODE 7XM	448-bit	2K-bit	48-bit unique serialized TID number				
U7XM+	NXP UCODE 7XM+	448-bit	2K-bit	48-bit unique serialized TID number				
U8	NXP UCODE 8	128-bit	0	48-bit unique serialized TID number				
DNA	NXP UCODE DNA	224-bit	3K-bit	48-bit unique serialized TID number				

Auburn University ARC Approved Inlay Designs

MODEL #	CAT A DENIM	CAT B POLYBAGGED APPAREL	CAT C BOXED ELECTRONICS	CAT D HANGING APPAREL	CAT I DENIM & POLYBAGGED APPAREL (ETSI)	CAT K SMALL APPAREL (ETSI)	SPEC M	SPEC F	SPEC G	SPEC N	SPEC Q	SPEC U
AD-229r6/r6-P	Х	X	Х	Х	X	Х	Х	Х	Х	Х	Х	
AD-236u7	Х	Х	Х	Х	X	Х	Х	Х	Х	Х	Х	
AD-237r6/r6-P	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	
AD-238u8	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	
AD-301r6/r6-P											Х	
AD-310u8	Х	X	Х	Х	Х	Х	Х	Х	Х		Х	
AD-320u7	Х	X		Х			Х		Х		Х	
AD-321r6/r6-P	Х	X		Х			Х		Х		Х	
AD-324u8	Х	Х		Х		Х	Х	Х	Х		Х	
AD-370u7	Х	Х		Х							Х	
AD-372u8	Х	X	Х	Х		Х		Х	Х	Х	Х	
AD-383u7	Х	Х	Х	Х	X	Х	Х	Х	Х		Х	
AD-384r6/r6-P	Х	X	х	Х	X	Х	Х	Х	Х	Х	Х	
AD-385u8	Х	X	Х	Х	X	Х	Х	Х	Х	Х	Х	
AD-550m5												Х

Avery Dennison RFID

Americas / Europe / Asia Pacific 866-903-RFID (7343) / +1-770-965-0807 rfid.info@averydennison.com averydennison.com/RFID Drawings not to scale. The chart contained herein is only intended as a suggestive guide for preliminary inlay selection. Please refer to www.rfid.averydennison.com for complete terms and conditions, including warranty terms, relating to this product. You should periodically review the site as terms and conditions are subject to change without notice.

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