Avery Dennison Smartrac Quick Guide

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# **RFID labels for Aviation**



rfid.averydennison.com

## Why RFID?

- Mishandling rates reduced by 13%\*.
- Ramp loading time cut by 4 minutes per aircraft turn\*.
- Baggage handling system throughout increases up to 18%\*.
- Read rates are 99.5% or better, which is 8 10% more than current barcode levels.
- Enhanced services for passengers such as real-time baggage tracking.

### Why Avery Dennison?

#### As an IATA strategic partner

- Instrumental in supporting IATA to drive the RFID baggage tracking initiative globally.
- Significant contributor to the development of the IATA RFID implementation guide.
- Supporting industry education on RFID through IATA workshops globally.

#### Aviation RFID baggage industry ecosystem

- Focused on an end-to-end baggage journey ecosystem play providing full end to end deployment and integration.
- Global operational experience with leading airlines and airports in supporting the original and ongoing deployments of RFID with best-of-breed ecosystem partners.

#### Unique value

- Dedicated global aviation industry team.
- Position why RFID is a proven technology for baggage tracking.
- Supporting stakeholders to meet IATA R753 compliance.
- Uniquely positioned to discuss improving the passenger experience.
- "Trusted advisor" within the aviation industry.

\*Based on data provided by a major international carrier.

As an officially recognized IATA Strategic Partner, Avery Dennison contributes thought leadership and technological innovation in the field of RFID for the Aviation industry.





# Our RFID product recommendations

Product Name	Design (not to scale)	Antenna Dimensions	Chip	EPC and User Memory	TID Memory	Delivery Format	Applications
AD-373 U7XM		53 x 19 mm 2.09 x 0.75 in	NXP UCODE 7XM	448-bit EPC And 2048-bit User Memory	96-bit / 48-bit unique serial number	Dry inlay Wet inlay	Asset Tracking
AD-553 U8	۲	38 x 76 mm 1.50 x 2.99 in	NXP UCODE 8	128-bit EPC	96-bit / 48-bit unique serial number	Dry inlay Wet inlay	Baggage Tracking
AD-556 M730	5	38 x 46 mm 1.50 x 1.80 in	Impinj M730	128-bit EPC	96-bit / 48-bit unique serial number	Dry inlay Wet inlay	Baggage Tracking
AD-560 M4QT		38 x 70 mm 1.50 x 2.76 in	Impinj Monza M4QT	128-bit EPC 512-bit User Memory	96-bit / 48-bit unique serial number	Dry inlay Wet inlay	Baggage Tracking
AD-681 M4D		50 x 50 mm 1.97 x 1.97 in	Impinj Monza M4D	128-bit EPC and 32-bit User Memory	96-bit / 48-bit unique serial number	Dry inlay Wet inlay	Asset Tracking Package Tracking Supply Chain Management
AD-681 M4QT		50 x 50 mm 1.97 x 1.97 in	Impinj Monza M4QT	128-bit EPC and 512-bit User Memory	96-bit / 48-bit unique serial number	Dry inlay Wet inlay	Asset Tracking Package Tracking Supply Chain Management
AD Bullseye™	$\bigcirc$	Ø 33 mm 1.30 in	NXP ICODE SLIX2	2500-bit	N/A	Label / sticker	Consumer Experience
AD Bullseye™ NFC	Summer.	Ø 35 mm 1.378 in	NXP NTAG213	144 bytes	N/A	Wet inlay	Consumer Experience
AD Bullseye™ NFC		Ø 35 mm 1.378 in	NXP NTAG216	888 bytes	N/A	Wet inlay	Consumer Experience
AD Circus™		Ø 18 mm 0.71 in	NXP ICODE SLIX 2	2500-bit	N/A	Wet inlay	Consumer Experience
AD Circus™ Flex	Creek	Ø 20 mm 0.79 in	NXP NTAG213	144 bytes	N/A	Wet inlay	Consumer Experience
AD Circus™ NFC	Creek	Ø 20 mm 0.79 in	NXP NTAG210 Micro	48 bytes	N/A	Wet inlay	Consumer Experience
AD Circus™ Pro		Ø 20 mm 0.79 in	NXP NTAG424 DNA	416 bytes	N/A	Wet inlay	Consumer Experience
AD Circus™ Pro		Ø 20 mm 0.79 in	EM4332	208 bytes	N/A	Wet inlay	Consumer Experience
AD Twist		27 x 27 mm 1.063 x 1.063 ir	NXP UCODE 7XM	Up to 448-bit and 2-Kbit	96-bit / 48-bit unique serial number	Wet inlay	Cable Tagging
AD Wings		30 x 72 mm 1.18 x 2.84 in	NXP UCODE 8	128-bit and 512-bit	96-bit / 48-bit unique serial number	Dry inlay	Baggage Tracking

Contact information rfid.averydennison.com/contact +1-678-617-2359

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