

# AD MiniDose U9XM

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip Attachment Technology**

Direct Chip Attach

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**Chip**

NXP UCODE 9XM

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**Antenna Dimensions**

22 x 12 mm / 0.87 x 0.47 in

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**International Standard**

ISO/IEC 18000-63, EPC Gen 2 V2

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**Industry Segment**

Healthcare

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**Applications**

Source Tagging  
End-to-End Traceability  
Product Authentication

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**RoHS**

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

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**REACH**

Regulation (EC) No. 1907/2006



## Tiny tag empowered with high memory for pharmaceutical & healthcare applications

AD Minidose U9XM tags are designed for the unique identification of a wide range of smaller products. Specifically, AD Minidose U9XM provides excellent performance when tagging smaller-sized items used in pharmaceutical and healthcare applications, including syringes, plastic and glass vials, and many varied packaging formats.

These inlays and tags, equipped with NXP UCODE 9XM IC offers higher memory with 256-bit of EPC memory and 624-bit user memory. Customers benefit from the ability to store additional product information (expiry date, and batch/lot) on the tag, allowing reliable access at any point in the supply chain without constant cloud lookups, thereby ensuring efficient and dependable tracking. Accurate and accessible product data on the tag can help to verify product authenticity and reduce the risk of counterfeit goods infiltrating the supply chain. It can also increase patient safety and care quality at the point of care.

Furthermore, the NXP U9XM chip offers a self adjust feature to maximize product performance i.e. longer read range in challenging environments. It provides high read reliability and enhanced performance, even when small tagged items are densely packed in close proximity.

AD Minidose U9XM is approved for use in healthcare applications by Auburn University's RFID Lab. It is one of the smallest inlays in the market which complies with ARC Category S for pharmaceutical & healthcare applications.

Avery Dennison Smartrac's 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.

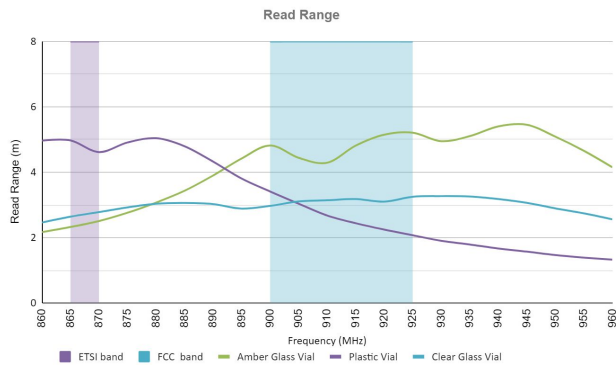
## Technical features

Chip	NXP UCODE 9XM
Chip attachment technology	Direct chip attach (DCA)
EPC and User Memory	256-bit and 624-bit
TID Memory	96-bit / 48-bit unique serial number
Product Code	IL-610862
Delivery Format	Wet inlay +
Die-Cut Dimension	24 x 14 mm / 0.94 x 0.55 in
Inlay Substrate	PET
Face Sheet	Clear PET 12
Total Thickness	233 um
Standard Pitch	18 mm / 0.71 in
Web Width	27 mm / 1.06 in
Core Size	76 mm / 3 in
Quantity / Reel	30,000 pcs/reel 60,000 pcs/box
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F
Certificates	<a href="#">ARC Specification Guide</a>

## Orientation sensitivity



## Read range



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

### Contact information

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**Warranty:** Please refer to Avery Dennison standard terms and conditions: [rfid.averydennison.com/termsandconditions](http://rfid.averydennison.com/termsandconditions)

**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.

**Applications:** This product should be tested by the customer / user thoroughly under end use conditions to ensure the product meets the particular requirements. Avery Dennison does not represent that this product is fit for any particular purpose or use. Avery Dennison reserves the right to modify, change, supplement or discontinue product offerings at any time without notice. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.

