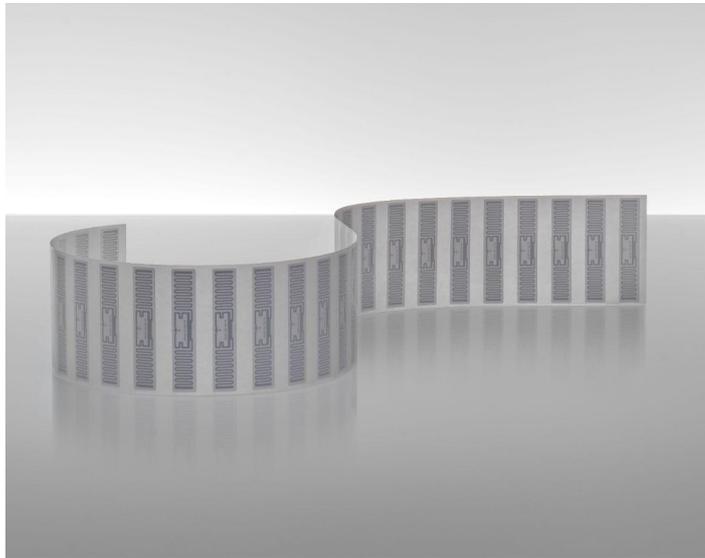


# AD Belt UCODE Guard



## Compact, High-Security UHF Authentication for Healthcare Applications

AD Belt UCODE Guard delivers exceptional item authenticity by leveraging NXP's high-security UCODE Guard IC with AES-128-based authentication to prevent counterfeiting, particularly in demanding healthcare environments and high-value industrial applications.

Designed for robust brand protection and user safety, AD Belt UCODE Guard verifies product authenticity, confirms the originality of safety-critical components in manufacturing and maintenance, and enables accurate long-range inventory tracking with secure authentication.

### Key Features:

Authentication, trust provisioning for brand, Optimized Performance

### NXP UCODE Guard IC:

- 448-bit EPC memory
- 256-bit user memory
- 96-bit unique factory-locked TID number
- 48-bit unique serial number (factory-encoded into TID)

Quality & Environmental Compliance: Compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management standards.

### Overview

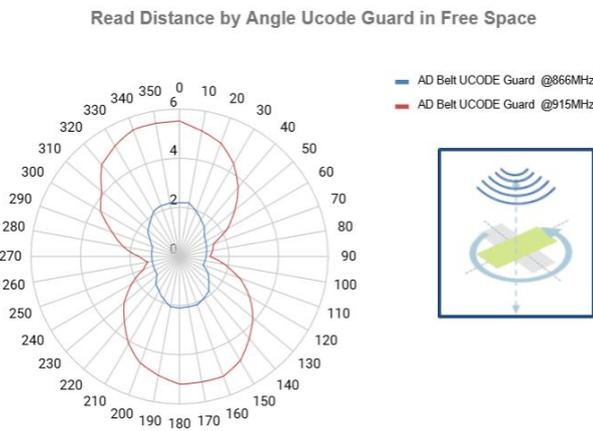
Frequency Band	UHF 860 - 960 MHz
Chip / Chip Attachment Technology	NXP UCODE Guard / Direct chip attach
Antenna Dimensions	59 x 9 mm / 2.32 x 0.35 in
International Standard	GS1 UHF RFID Gen2 v2.0, ISO/IEC 29167-10
Industry Segments	Healthcare
Applications	Brand Protection Inventory and Supply Chain Management High value pharmaceutical and medical
RoHS	EU Directive 2011/65/EU and Directive (EU) 2015/863
REACH	Regulation (EC) No. 1907/2006

**Technical features**

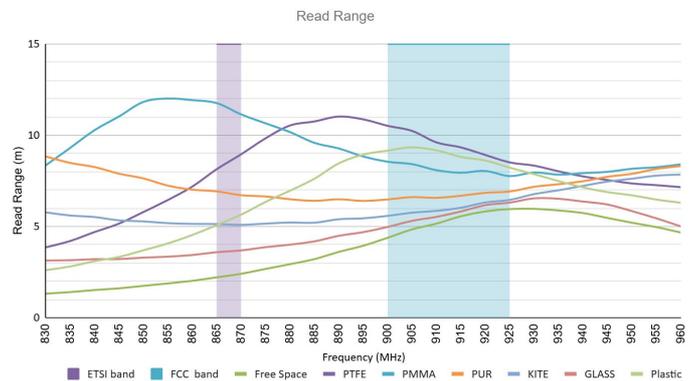
Chip / Chip Attachment Technology	NXP UCODE Guard / Direct chip attach (DCA)
EPC and User Memory	448-bit and 256-bit
TID Memory	96-bit / 48-bit unique serial number
Product Code	IL-613859
Delivery Format	Wet inlay
Die-Cut Dimensions	62 x 12 mm / 2.44 x 0.47 in
Die-Cut Corner Radius	1 mm / 0.039 in
Inlay Substrate	White PET
Face Sheet	-
Adhesive	S692NP(AWS1346)
Total Thickness (over chip and release liner)	9.84 mils / 250 microns
Standard Pitch	20 mm / 0.79 in
Web Width	65 mm / 2.56 in
Core Size	76 mm / 3 in
Quantity / Reel	5,000 pcs/reel
Size of Roll	Max OD 12"
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F
On-Metal	Non metal
ARC Certificates	NA

\*Other product codes available upon request.

**Orientation sensitivity**



**Read range**



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

Find more label solutions at  
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