

# Cattle Management Ear Tag



## RAIN® RFID MANAGEMENT EAR TAG FOR CATTLE

- **Versatile** - Flexible, laser engravable flag works with any standard round button tag set
- **Highly reliable** - Water, impact and UV resistant durable housing
- **Superior performance** - Excellent reading distance around the world
- **Patent pending design**

The RAIN® RFID management ear tag by HID Global, extends the traditional low-frequency Animal Identification schemes with a new long-range UHF option.

Such a tag enables livestock like cattle to be automatically counted and identified when walking through a reader gate or entering a feeding station. It allows identifying and counting animals in groups from a distance, reducing stress to the animals. Read/write capabilities allow storing additional information like vaccination or movement.

Its construction was optimized by HID experts to optimally match the use case and allows a reading distance of up to 6.5m (21 ft) as well as its durability, which are among the highest in the market. The broadband design supports worldwide operation and reliable reading in any typical circumstances.

The reusable HID management tag is a standard product designed to work with any closure mechanism from Animal ID system integrators.

The flexible and tough Thermoplastics Polyurethane (TPU) housing is highly waterproof (IP68 + IP 69K), resists aggressive liquids, bending and torsion, strong impact (IK08) and weather conditions (UV light). It's large front surface supports laser engraving of bar codes, QR codes and text for additional optical identification to comply with legislations.

With its fully automated manufacturing processes, own Asian certified production facility and in-house Swiss design services HID Global can support custom designs, encoding services and mass-production as needed.



**KEY TECHNOLOGY HIGHLIGHTS:**


- Flexible base to be combined with any locking mechanism
  - Patent pending design for performance
  - Highly robust TPU material
  - IP69K and IP68 water resistant
  - Broadband MONZA 5 chip for worldwide use
  - Laser engravable and UV resistant

**TYPICAL APPLICATION AREAS:**

- Livestock
  - Cattle
  - Bison
  - Buffalo

**SPECIFICATIONS**



	<b>Ear Tag</b>
	
<b>Base Model Number</b>	7A7901
<b>ELECTRONIC</b>	
<b>Operating Frequency</b>	860-960 MHz (Worldwide)
<b>Chip Type</b>	Monza R5
<b>Memory</b>	32 bit user memory + 128 bit EPC + 96 bit TID
<b>Reading Distance</b>	Up to 21 ft (6.5 m)
<b>PHYSICAL</b>	
<b>Dimensions</b>	4.6 x 3 x 0.07 in (116 x 77 x 1.7 mm)
<b>Diameter hole on ring</b>	Ø 0.35 in (Ø 9 mm)
<b>Housing Material</b>	Thermoplastics Polyurethane (TPU)
<b>Color</b>	Yellow
<b>Weight</b>	0.53 oz (15.2 g)
<b>CHEMICAL AND MECHANICAL</b>	
<b>Water</b>	IP69K, IP68, 68° F (20° C), 3.3 ft (2 m) x 24 h
<b>Withstands Exposure to</b>	Mineral oil, Petroleum, Salt mist, UV light
<b>Impact</b>	IEC 62262-1K08
<b>Axial Force</b>	500 N, 10 sec
<b>THERMAL</b>	
<b>Storage</b>	-40° to +185° F (- 40°C to + 85°C), 1000 h
<b>Operating Temperature</b>	-40° to +185° F (- 40°C to + 85°C)
<b>Shock/Fatigue</b>	-40° to +185° F (-40°C to +85°C), 100 x 5 min with 30 sec transition
<b>OTHER</b>	
<b>Standards</b>	EPC Gen2, ISO/IEC 18000-6C
<b>Box Size</b>	200 pcs
<b>Options</b>	Laser engraving, encoding. Custom shapes and chip types available
<b>Warranty</b>	2 Years



[hidglobal.com](http://hidglobal.com)

North America: +1 512 776 9000  
 Toll Free: 1 800 237 7769  
 Europe, Middle East, Africa: +49 6123 791 0  
 Asia Pacific: +852 3160 9800  
 Latin America: +52 55 9171 1108



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