ROBUST, ALL-PURPOSE UHF RFID TAGS MOUNT TO ANY SURFACE MATERIAL AND DELIVER LONG READ RANGES

Extreme durability — resistant to outdoor elements as well as blunt and sharp impact

Multiple mounting options — glue, screw or weld

Enhanced reliability — read-write on any material, up to 26 ft (8 m)

Broadband frequency — for worldwide use, including Europe, the United States and Japan

HID Global's InLine Tag™ Ultra passive contactless transponders are the most advanced general-purpose UHF tags available in the market. Choose from options that mount on any material while enabling read ranges of up to a 26 ft (8 m), with no line-of-sight.

InLine Tag devices improve data collection speed and accuracy for logistics applications, while making tracking more cost-effective. These tags enable complete accuracy of asset identification. For example, it is possible to track hundreds of metal kegs containing liquid loaded on a truck as it moves slowly through RFID reader enabled gates placed at points of distribution and delivery.

UHF technology enables anti-collision functionality, fast data-rate communication and password data protection for precise, reliable reading and updating of each tag's 512-bit read-write memory. All InLine Tag RFID tags are compliant with EPC global-certified UHF Class 1 Gen 2 readers and modules, with broadband capability for international operations.

The tough and versatile InLine Tag transponders are available for mounting on metal, plastic or wood using standard M5 screws, industrial adhesives or welding. The tags are lightweight, waterproof and resist high-pressure/ high temperature washing conditions according to the highest standard (IP69K).

InLine Tag Ultra RFID tags include HID Global's patented 3D antenna, enabling omnidirectional read range performance independent of mounting material. The tags also enable maintenance of separate public and private profiles for added data security.

The InLine Tag Ultra Curve version is arched to hug metallic kegs or gas cylinders, and durably withstands typical washing and disinfection cycles. Slim versions of the tags enable UHF performance for space-restricted applications, and are configured for attachment via screw or weld.

TECHNOLOGY HIGHLIGHTS:
Worldwide operating frequencies from 860 to 960 MHz
Fully interoperable; standards compliant
Reliable performance on both metal and non-metal surfaces
Waterproof under high pressure / high temperature conditions; chemical and impact resistant
Mounting options include nails, screws, welding and glues
Large memory of up to 512-bit user memory and 128-bit EPC number
APPLICATION AREAS:
- Asset tracking and logistics
  - Postal and road toll management: truck, wagon and train tracking
  - Supply chain management: pallet and goods tracking
- Returnable transport items
  - Shipping container tracking
  - Metal keg and gas cylinder identification
- Waste management
  - Commercial and industrial bin identification

SPECIFICATIONS

<table>
<thead>
<tr>
<th>InLine Tag™ Ultra</th>
<th>Weld</th>
<th>Slim</th>
<th>Slim Weld</th>
<th>Curve</th>
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<tbody>
<tr>
<td>Base Model Number</td>
<td>6A7980</td>
<td>6A7981</td>
<td>6A7983</td>
<td>6A7984</td>
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**ELECTRONIC**
- Operating Frequency: 865-956 MHz (EU, US, JP)
- Chip Type: Monza 4QT
- Memory: 128 bit EPC + 96 bit TID + 512 bit user memory
- Anti-Collision: Yes
- Reading Distance: Up to 26.2 ft (8 m)

**PHYSICAL**
- Dimensions: 3.8 x 1.1 x 0.6 in (97 x 27 x 15 mm)
- Mounting Method: Screw, Weld
- Screw Mounting Hole: Ø 0.2 in (5.2 mm)
- Housing Material: PC/ABS high impact, stainless steel ring
- Color: Pantone blue 287C (custom colors available)
- Weight: 0.5 oz (16 g)

**CHEMICAL AND MECHANICAL**
- Water Resistance: IP69K, 176°F (80°C), 100 bar, 30 sec, 16 l/min
- Withstands Exposure To: Mineral oil, petroleum, salt mist, vegetable oil; up to 80% humidity at 158°F (70°C)
- Environmental Test Conditions: 68°F (20°C), 100 h
- Vibration: IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]
- Shock: IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times]

**THERMAL**
- Storage: 40° to +176°F (-40° to +80°C), 1x1000 h
- Operating Temperature: -40° to +185°F (-40° to +85°C)
- Shock/Fatigue: -40° to +194°F (-40° to +85°C), 100 x 5 min with 20 sec transition

**OTHER**
- Standards: UHF EPC Class 1 Gen 2, ISO 18000-6C, ISO 17364, DIN 40050

**Options**
- Custom embossed logo or tag color

**Warranty**
- 2 Years