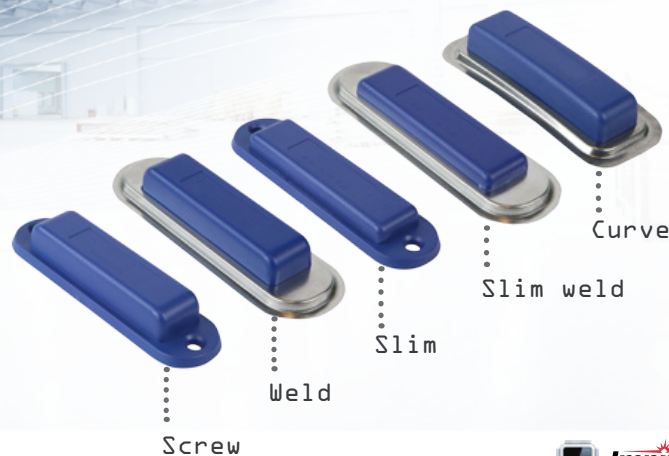


InLine Tag™ Ultra

Robust, all-purpose UHF RFID tags mount to any surface material and deliver long read ranges



UHF EPC1 Gen2 Tags 

Industry and logistics flexible UHF tag series

- **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

STid 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 provide high resistance to aggressive liquids or physical impact, and deliver excellent performance and reading stability across fluctuating temperatures.

InLine Tag™ Ultra RFID tags include STid 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.

Applications areas



Asset tracking and logistics



Returnable transport items



Waste management






Technology highlights

- Worldwide operating frequencies from 860 to 960 MHz
- Fully interoperable; standards compliant
- Reliable performance on both metal and non-metal surfaces
- Waterproof; chemical and impact resistant
- Mounting options include nails, screws, welding and glues
- Memory of up to 512-bit user memory and 128-bit EPC number

*Caution: information about Reading distance: Distance measured from the centre of the antenna, depending on the reader, the power supply and the operating environment.

InLine Tag™ Ultra

All-purpose UHF RFID tags

| InLine tag™ Ultra series | | | | | |
|---|--|---|---|--|--|
| |  Screw |  Weld |  Slim |  Slim Weld |  Curve |
| ELECTRONIC | | | | | |
| Physical properties | RFID passive tag | | | | |
| Operating frequency / Standards | 865-956 MHz (EU, US, JP) | | | | |
| Chip type | Monza 4QT | | | | |
| EPC/User Memory | 128 bit EPC + 96 bit TID + 512 bit user memory | | | | |
| Anti-collision | Yes | | | | |
| Reading distances* | Up to 8 m (26.2 ft) | | Up to 5 m (16.4 ft) | | Up to 8 m (26.3 ft) |
| PHYSICAL | | | | | |
| Dimensions (L x W x T) | 97 x 27 x 15 mm (3.8 x 1.1 x 0.6 in) | 105 x 35 x 15 mm (4.1 x 1.4 x 0.6 in) | 97 x 27 x 10 mm (3.8 x 1.1 x 0.4 in) | 105 x 35 x 10 mm (4.1 x 1.4 x 0.4 in) | 88 x 37 x 14.5 mm (3.5 x 1.5 x 0.6 in); 450 mm (17.7 in) curve radius |
| Mounting Method | Screw | Weld | Screw | Weld | |
| Screw Mounting hole | Ø 5.2 mm (0.2 in) | | Ø 5.2 mm (0.2 in) | PC/ABS high impact, stainless steel ring | |
| Affixes To | All surfaces, including metal, plastic, wood Plastic, dry wood | | | Curved metal | |
| Housing Material | PC/ABS high impact | PC/ABS high impact, stainless steel ring | PC/ABS high impact | ØTPE | |
| Color | Pantone blue 287C (custom colors available) | | | | |
| Weight | 16 g (0.5 oz) | 18 g (0.6 oz) | 12 g (0.4 oz) | 14 g (0.5 oz) | 15 g (0.5 oz) |
| CHEMICAL AND MECHANICAL RESISTANCE | | | | | |
| Water | IP68, 20° C (68° F), 1 m (3.3 ft) x 24 h | | | | |
| Withstands Exposure To | Mineral oil, petroleum, salt mist, vegetable oil; up to 80% humidity at 70° C (158° F) | | | | |
| Environmental Test Conditions | 20° C (68° F), 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] | | | | |
| Impact | IEC 62262-IK09 | | | IEC 62262-IK08 | |
| Axial / Radial Force | 1000 N, 10 sec | | | | |
| Thermal | | | | | |
| Storage | -40° to +80° C (-40° to +176° F), 1x1000 h | | | | |
| Operating Temperature | -40° to +80° C (-40° to +185° F) | | | | |
| Shock/Fatigue | -40° to +85° C (-40° to +194° F), 100 x 5 min with 20 sec transition | | | | |
| OTHER | | | | | |
| Standards | UHF EPC Class 1 Gen 2, ISO 18000-6C, ISO 17364 | | | | |
| Options | Custom embossed logo or tag color | | | | |
| Warranty | 2 Years | | | | |
| Part number | TDPW49B271/7 | TDPW49B281/7 | TDPW49B291/7 | TDPW49B301/7 | TDPW49B311/7 |

*Caution: information about Reading distance: Distance measured from the centre of the antenna, depending on the reader, the power supply and the operating environment.



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