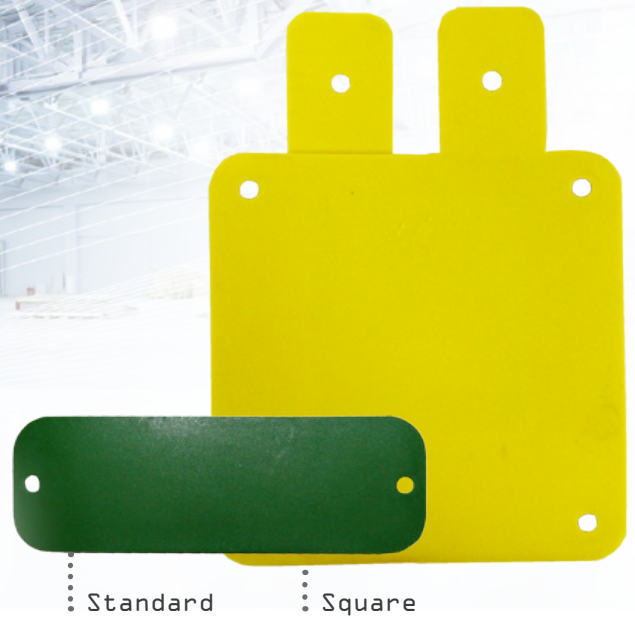


SlimFlex™ Tags

Pliable UHF RFID tags mount to uneven surfaces and deliver long read ranges



Industry and logistics flexible UHF tag series

- **Flexibility** – Repeated bending will not impede performance; enables secure mounting on rounded or irregular surfaces.
- **High durability** – Resistant to outdoor elements.
- **Enhanced reliability** – Read-write up to 26.3 ft (8 m*) when mounted to plastic or wood.
- **Broadband UHF** – Usable worldwide, including Europe, the United States and Japan.

UHF EPC1 Gen2 Tags



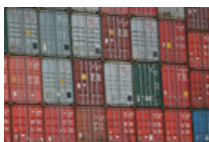
STid SlimFlex™ RFID tags are among the most advanced general purpose UHF tags available. The unique thermoplastic elastomer (TPE) housings tolerate repeated bending or torsion, while maintaining excellent performance characteristics. The durable housing safeguards embedded electronics, even under harsh conditions. SlimFlex™ passive contactless transponders improve data collection speed and accuracy for logistics applications. The tags' flexible housings conform to surface contours, and can be securely attached with industrial adhesives or screwed into place via pre-drilled holes. 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 user memory. SlimFlex™ tags are compliant with EPC global certified UHF Class 1 Gen 2 readers and modules and have broadband capability for worldwide operations.

SlimFlex™ tags enable fast and accurate data read and write capabilities when mounted to any wood or plastic asset, such as containers, pallets, helmets, apparel, tools or even trees. The tags are available in two configurations. The **standard** version enables read ranges up to 19 ft (6 m*), and attaches snugly to rounded or irregular surfaces. The SlimFlex™ **Square** configuration delivers read ranges of up to 26 ft (8 m*) in dry conditions when mounted to any non-metal surface and in wet conditions when mounted vertically to a flat surface or extended from a corner. Both SlimFlex™ RFID tags are waterproof, provide high resistance to aggressive liquids, and deliver reliable performance and reading stability across fluctuating temperatures.

Applications areas



Asset tracking and logistics



Traceability of containers



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.

SlimFlex™ Tags

Pliable UHF RFID tag series



| SlimFlex™ Tag series | | |
|---|--|--|
| | Standard | Square |
| ELECTRONIC | | |
| Physical properties | RFID passive tag | |
| Operating frequency / Standards | 865-956 MHz (EU, US, JP) | |
| Chip type | Higgs 3 | |
| EPC/User Memory | 96 bit EPC + 64 bit TID + 512 bit user memory | |
| Anti-collision | Yes | |
| Reading distances* (2W reader ERP, free space) | Up to 6 m (19.7 ft) | Up to 8 m (26.3 ft) |
| PHYSICAL | | |
| Dimensions (L x W x T) | 77 × 25 × 3 mm (3.0 × 0.6 × 0.12 in) | 115 × 85 × 3 mm (4.5 × 3.3 × 0.12 in) |
| Mounting Method | Glue or screw | |
| Fixation Hole Size | Ø 3 mm (0.12 in) | Ø 4 mm (0.16 in) |
| Affixes To | Plastic, dry wood | |
| Housing Material | TPE | |
| Color | Green | Yellow |
| Weight | 6 g (0.21 oz) | 25 g (0.9 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 | |
| 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] | |
| Axial / Radial Force | 1000 N, 10 sec | |
| Bending | 150 mm (5.9 in) curve radius | 3000 times when vertically mounted |
| Thermal | | |
| Storage | -40° to +70° C (-40° to +158° F) | |
| Operating Temperature | -40° to +70° C (-40° to +158° F) | |
| OTHER | | |
| Standards | UHF EPC Class 1 Gen 2, ISO 18000-6C | |
| Options | Custom embossed logo, alternate colors | Custom embossed logo, laser engraving |
| Warranty | 2 Years | |
| Part number | TFPW42B251/9 | TFPW42B261/8 |

The unique thermoplastic elastomer (TPE) housings tolerate repeated bending or torsion, while maintaining excellent performance characteristics.



Custom color options are available, and tags can be embossed or laser-engraved with a logo or message for branding or enhanced visual identification.



*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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