SMARTRAC's DOGBONE™ inlays and tags are designed for global supply chain, industrial and RTI applications, offer excellent performance in demanding environments and on different materials.

DOGBONE inlays and tags have a good tolerance to the detuning effect of high-electric materials, providing effective global performance even on difficult-to-tag materials. They are available with the NXP UCODE G2iL chip that offers unique TID.

The inlay is size-optimized for 100 mm / 4 inch wide converted labels, and is available in dry, wet and paper tag delivery formats.

SMARTRAC’s inlays and tags are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, enhancing RFID usage for difficult-to-tag materials.

**Overview**
- **Operating Frequency**: 860 - 960 MHz
- **Integrated Circuit (IC)**: NXP UCODE G2iL
- **Antenna Size**: 88 × 24 mm (3.5 × 1.0 in)
- **Die-cut Size**: 97 × 27 mm (3.8 × 1.1 in)

**International Standards**
- EPC Class 1 Gen 2
- ISO 18000-6C

**Application Areas**
- Industry
- Supply Chain Management
- Sports Timing
DOGBONE™
Excellent Global Performance even on Difficult-To-Tag Materials

<table>
<thead>
<tr>
<th>Technical Features</th>
<th>Size</th>
<th>Format</th>
<th>Sales Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC + Memory</td>
<td>NXP UCODE G2iL 128 bit</td>
<td>Dry</td>
<td>3002036</td>
</tr>
<tr>
<td></td>
<td>88 x 24 mm / 3.5 x 0.9 in</td>
<td>Wet</td>
<td>3002037</td>
</tr>
<tr>
<td></td>
<td>97 x 27 mm / 3.8 x 1.1 in</td>
<td>Paper Tag</td>
<td>3002038</td>
</tr>
<tr>
<td>Web Width</td>
<td>100 mm / 3.94 in</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40 °C to +85 °C / -40 °F to +185 °F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adhesive</td>
<td>Acrylic, water borne adhesive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Qty/Reel</td>
<td>10,000 dry inlays per reel, 5,000 wet inlays per reel, 3,000 tags per reel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core Size</td>
<td>76 mm / 3 in</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shelf Life</td>
<td>+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a 2W ERP output power level.