



CATTLE EAR TAG

Innovative RAIN RFID Ear Tag with Superior Read Range

Smartrac's innovative Cattle Ear Tag is designed to meet rugged environmental conditions in the livestock industry. It offers superior read range through RAIN RFID (UHF) technology and takes ear tags to a new level for convenient and reliable usage.

Smartrac is extending its comprehensive product range with the new RAIN RFID ear tag with a chip module that is inductively coupled to an embroidered RFID antenna. The innovative tag which compromise following benefits: compared to traditional etched antennas, Smartrac's wire-made embroidered antenna offers more resistance against fractures or disruption in the antenna structure - effects that would compromise the tag's reliability in its hard day-to-day use. The embroidered antenna wire is affixed to the carrier material - thermoplastic polyurethane (TPU) foil – using the state-of-the-art "Tailored Wire Placement" technique.

Smartrac Cattle Ear Tag has a compact hang tag size of 60 × 76 mm with firmly fitted pin and is equipped with Impinj Monza R6-P chip. The integrated circuit comes with an Autotune feature, which helps the ear tag product to work at peak efficiency, even in rapidly changing environments. It offers additional add-on user memory and on-demand memory configuration as well as a kill function and easy access control to change tag information for store data, if required. Based on RAIN RFID technology the Cattle Ear Tag's read distance under normal conditions is approximately five meters / 15 feet.

The ear tag can benefit from the capabilities of Smart Cosmos: Smartrac's IoT platform can record and manage a complete set of unique transponder data (e.g. TID no., order no., batch no., or yield) at production level in a controlled and secure way. As the backbone of Smartrac's product digitization solutions, Smart Cosmos enables full traceability of delivered RFID products and provides reliable quality assurance.

Overview

Operating Frequency

865–868 MHz / ETSI

Integrated Circuit (IC)

Impinj Monza R6-P

Dimension

60 × 76 mm / 2.4 × 3.0 inch

Material:

TPU

International Standards

- ▶ ISO 18000-63, EPC Class 1, Gen 2 v2

Options

- ▶ Laser Engraving
- ▶ Different colors upon request
- ▶ Female button for pin

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| Technical Features | | | |
|---|---|------------------------------------|-----------------|
| IC + Memory | Size | Sales Code | Packaging |
| Impinj Monza R6-P 128 bit EPC + 32 bit user 96 bit EPC + 64 bit user* | 60 × 76 mm / 2.4 × 3.0" 2.0 mm total thickness | 876300-03 pink 876301-03 yellow | 1.000 pcs / box |
| Operating Temperature | -20 °C to +80 °C / -4 °F to +176 °F | | |
| Storage Temperature | -20 °C to +80 °C / -4 °F to +176 °F | | |

* Optional, upon request

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