

Product Overview

The TROI Flex tags leverage a tag design originally developed for the automotive industry. The core of this tag consists of an RFID chip mounted on a small rugged circuit board with a metal wire antenna. This produces tags with a unique combination of strength and flexibility not previously seen with UHF Gen2 Passive RFID tags.

These tags come in a wide variety of packaging and mechanical attachment options for both on-metal and non metal applications. Popular examples include tags integrated into wire zip ties (seen below), heat shrink material, and Teflon. These tags are an excellent choice for challenging applications where durability and flexibility are attractive features..

Specifications

Dimensions – Variable based on materials and attachment method

Communication Protocol – EPC Class 1 Generation 2 / ISO 18000-6C

Frequency Range – 860 MHz – 960 MHz

Integrated Circuit (IC) / Memory

- Impinj – 96 bits
- NXP – 512 bits

Materials – Wire based core, various material options

Environmental Durability (*dependent on materials*)

- Temperature – -40F – 400F (-40C – 200C)
- Impact Resistance – Good, application dependent
- Chemical Resistance – Can be highly chemical resistant (Teflon)

Mounting / Attachment – Mechanical attachment (wire ties, clips, hooks, cables, etc.)

Performance (*using Motorola MC9090G hand-held unit in asset management scenario*)

- Read Range – 6 feet (2 meters)
- Orientation Sensitivity – linear; performs best at 90 degrees to hand-held linear antenna

Options

- Speak with an RFID TagSource representative to discuss your specification application needs.
- Custom labeling may be limited based on material and form factor. Encoding services available.

Note: Tag performance and durability will vary based on RFID hardware configuration and other environmental conditions. Customers should evaluate tags for application suitability before committing to large order quantities.

For More information on these and our ever increasing selection of standards based passive RFID tags contact:

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