

STA RC9020-1 UHF Tire Patch Tag

General Information

The RC9020-1 has been developed to be embedded in the tire just like tire repair, where it will last the lifetime of the tire.

The tag provides a unique identification number which can be tracked to prevent tire theft and cloning, in addition to the conventional asset tracking benefits inherent to RFID.

This tag also can be embedded other items in producing process. Such as trunk, box, etc. Its advantage is small size, resist at least 200°C, etc.

Features

- EPC Gen 2(V1.2.0) compliant
- Operation Frequency(860-960MHz)
- Read range up to 1 meters
- Available Pre- Printed and Pre- encoded
- Custom commands for high speed programming
- Flexible material to contour to any shape of tire
- Factory programmed tag identification number to prevent cloning



Application

- Vehicle and truck management
- Tire anti cloning and brand protection
- Tire Usage and maintenance record
- Tire inventory tracking and anti theft





Technical Specifications Table

RFID Features:		
RFID Standard		ISO/IEC 18000-6C (EPC Gen2)
Chip Type		Alien Higgs-3
EPC Memory		96 bits to 480 bits
User Memory		512 bits
Read Range	902-928 MHz	0.5-2.0m
	865-868 MHz	0.5-2.0m
Other Features:		
Material		rubber
Dimensions		95*35*2mm
Installation		Stick by vulcanizing agent (like tire repair)
Customization		Printing, Encoding, etc

Installation Manual

Inside Tire Tag Installation Guide

Instructions: to be applied on the tire in the same way as a tire repair patch inside the tire, best position may vary depending on each tire type. Please see the processes as follows:



Applied as any other tire repair cold rubber patch with glue cement or vulcanizing agent.



Application location:

Make sure that the tag is applied inside the sidewall of the tire.

1. Check the general area where the patch will stick.
2. Cleaning the surface of the inner liner in the area where the patch will stick.
3. Removing molded-in features such as ridges or texture.
4. Marking the exact location where the patch will stick.
5. The distance between the patch center and the lip of the bead will be 105 – 115 mm.
6. Applying Glue Cement or Vulcanizing Agent and allowing the solvent to dry.
7. Applying the patch to the prepared inner liner and applying pressure (—stitching it down) to assure intimate contact.
8. There will be no bubbles underneath the patch
9. The patch will be tightly adhered to the tire all the way around its periphery.
10. Waiting for appropriate time.



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STA RC9020 UHF Embedded Tire Tag

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