

## Antenna Based Passive Uhf Rfid Sensor Tags

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Can passive UHF RFID read through metal? Host Louis Sirico

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What is RFID? How RFID works? RFID Explained in Detail [UHF RFID system with integrated antenna and long range](#) [Designing an RFID Tag Detector and Antenna in ADS Metamaterial UHF-RFID Near-field Antenna for Retail Applications](#) [Orientation detection using Passive UHF RFID Technology](#) [UHF RFID orientation measurement by Tagformance](#) [Antenna Based Passive Uhf Rfid](#)

Antenna-based sensory UHF RFID tags utilize the influence that the physical or chemical parameters to be sensed have on the electrical properties of a tag antenna. The variations of the electrical properties of the tag antenna can be measured in many ways. In the thesis, a description is provided as to how these variations are

### *Antenna-Based Passive UHF RFID Sensor Tags*

The applications of the sensor tags, in this work, mainly target remote humidity sensing. Antenna-based sensory UHF RFID tags utilize the influence that the physical or chemical parameters to be sensed have on the electrical properties of a tag antenna. The variations of the electrical properties of the tag antenna can be measured in many ways.

### *Antenna-based passive UHF RFID sensor tags : Design and ...*

Abstract: Sensing capabilities embedded in a passive UHF RFID tag provide a battery-free wireless sensor equipped with a digital identifier. We present an RFID strain sensor tag based on a stretchable antenna made of conductive fabrics. To create an efficient antenna for the sensor tag, we use non-stretchable and highly conductive copper-coated fabric to form the main antenna body and join a section of stretchable conductive fabric by means of sewing with conductive thread.

*Implementation and wireless readout of passive UHF RFID ...*

# Acces PDF Antenna Based Passive Uhf Rfid Sensor Tags

**Abstract** In this work, a passive ultra-high frequency radio-frequency identification UHF-RFID tag based on a 1.25 wavelengths thin dipole antenna is presented for the first time. The length of the antenna is properly chosen in order to maximize the tag read range, while maintaining a reasonable tag size and radiation pattern.

## *A High-Gain Passive UHF-RFID Tag with Increased Read Range*

UHF RFID Tag Antenna-Based Sensing for Corrosion Detection & Characterization Using Principal Component Analysis. **Abstract:** Recently, structural health monitoring (SHM) using radio frequency identification (RFID) tag antenna-based sensing (TABS) has received increasing attention because of its wireless, passive, and low-cost characteristics. However, a great challenge in the SHM using RFID TABS is multiple influences in the measurement.

## *UHF RFID Tag Antenna-Based Sensing for Corrosion Detection ...*

tagging equipment and patient files with passive RFID tags which can be effectively tracked throughout the hospital ward using a network of antennas and stationary RFID readers. This network of antennas covering a great portion of the hospital's ward was carefully designed in order to provide adequate

## *A Healthcare Application Based on Passive UHF RFID Technology*

**Abstract-** We present a comprehensive model of the complex re?ection coef?icient of UHF RFID tags during modulation. The model is based on an equivalent circuit and validated using mea- surementsofanNXPUCODEG2XMonanNXPUCODEgeneral purpose reference antenna in an anechoic chamber.

## *Tag-Based Sensing and Positioning in Passive UHF RFID: Tag ...*

Passive Ultra-High Frequency (UHF) RFID tags are here used as moisture sensors. The tags for the mentioned challenged used here for different application as stated before, are specifically textile tags. There are two types of textiles (Substrate) that have been used; cotton, which is organic in nature and stretchable synthetic textile, which is a mixture of viscose and polyester.

## *Performance evaluation of textile based passive RFID ...*

RFID Antennas. (Showing 12 of 107) We carry a wide range of antennas to fit an equally wide range of tags, readers, and systems. This includes UHF antennas, patch antennas, and linear or circular polarized antennas. Each antenna has different strengths, and each fits specific types of systems. We're here to help assist you in selecting the best RFID antenna for your application, so please contact us with any questions you may have.

## *RFID Antennas: Shop UHF Passive RFID Antennas | atlasRFIDstore*

RFID tags are made out of three pieces: a micro chip (an integrated circuit which stores and processes information and modulates and demodulates radio-frequency (RF) signals), an antenna for receiving and transmitting the signal and a substrate. The tag information is stored in a non-volatile memory. The RFID tag includes either fixed or programmable logic for processing the transmission and ...

## *Radio-frequency identification - Wikipedia*

RFID tags in the ultrahigh frequency (UHF) band have passive, wireless, medium read range, unique identification properties, and low?cost feature. Antenna is a key component of an RFID tag. 3, 4 Current antenna fabrication mainly uses a metallic material as the conductive element, but this process is complicated and expensive. Moreover, the metallic antennas are

prone to oxidation, corrosion, and poor flexibility.

*Long read range and flexible UHF RFID tag antenna made of ...*

International audience This work presents the design of an antenna for UHF RFID tags for supply and retail market working on different substrates. This antenna is based on the principle of broadband and frequency independent antenna like spiral antenna, which in free space simulation has a reflection coefficient less than -7.5 dB over US UHF RFID frequency band.

*A NEW SPIRAL ANTENNA FOR PASSIVE UHF RFID TAG ON DIFFERENT ...*

In recent years, the applications of RFID passive systems operating in the UHF band have experienced a progressive growth. UHF-RFID tags are usually designed to operate at a single frequency band. However, due to the different worldwide regulations, the UHF-RFID frequency bands have different locations in the spectrum and vary in the

*Radio Frequency Identification (RFID) Tags and Reader ...*

Passive RFID Strain-Sensor Based on Meander-Line Antennas. C. Occhiuzzi, C. Paggi, and G. Marrocco. Abstract—The processing of backscattered signals coming from RFID tags is potentially useful to detect the physical state of the tagged object. It is here shown how to design a completely passive UHF RFID sensor for strain monitoring starting from a meander-line dipole whose shape factor and feed section are engineered to achieve the desired sensing resolution and dynamic range.

*Passive RFID Strain-Sensor Based on Meander-Line Antennas*

extension to everyday life applications. To this end, this work is focused on the antenna design for passive RFID tags working at the UHF frequency band (passive UHF-RFID tags), exploring the use of metamaterial-inspired resonators (i.e., the split-ring resonator and its derived structures) as radiating elements, and also considering alternative

*Antenna Design Solutions for Radio Frequency ...*

Humidity passive sensors based on UHF RFID using cork dielectric slabs Ricardo Gonçalves<sup>1</sup>, Pedro Pinho<sup>2</sup>, Nuno Borges Carvalho<sup>3</sup>, Manos M. Tentzeris<sup>3</sup> <sup>1</sup>DETI, Instituto de Telecomunicações, Universidade de Aveiro, Aveiro, Portugal <sup>2</sup>ADEETC, Instituto de Telecomunicações, Instituto Superior de Engenharia de Lisboa, Lisboa, Portugal <sup>3</sup>GEDC, Georgia Institute of Technology, Atlanta, GA, USA

*Humidity passive sensors based on UHF RFID using cork ...*

A passive UHF-RFID tag consists of an antenna matched to an application-specific integrated circuit (ASIC), which contains the information about the tagged item. A passive tag is capable of using the electromagnetic energy from the reader to activate the chip, which generates a modulated backscattered signal to the reader.

*Analysis of the Split Ring Resonator (SRR) Antenna Applied ...*

Abstract—We present a broadband textile-based UHF RFID tag antenna. Its wide bandwidth makes the tag less susceptible to objects and materials in the vicinity. Also high conductive textile material (E-fiber) is used to introduce elasticity, flexibility and mechanical strength.