24 — New Trends in Wireless Technology/Wireless Communication using RFID and GPS RFID and GPS Technology

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Abstract

One of the technologies that could help companies to handle data is RFID (Radio Frequency Identification). Many organizations are slow in warming up to the idea of using RFID to conduct more effective and efficient business processes, data mining applications, and cost savings.

RFID sensors are used in agriculture industries, food industries, animal tracking, toll plaza for toll collection, industry control parameters, defense, biomedical field etc. In agriculture industries, RFID offers significantly enhanced efficiencies in data management, disease making outbreak and inability to ensure national and international food safety in food industries. Using low frequency (LF), embedded microchip stags are uniquely numbered providing global identification of an individual animal for tracking. Overall applications of RFID sensors major role are running in industry and society. A new challenge for RFID sensor is that to reduce the size and to remove the tag of RFID sensor. It will be merely useful to increase the communication distance as well as gain and power dissipation factor.

Keywords: Radio Frequency Identification(RFID), Global Positioning System (GPS).

Objectives

1. To study data communication through wireless technology with special reference to RFID and GPS technology.
2. To identify key issues relevant to wireless technology and to study different media technology.

Introduction

- Introduction and Background Study
- How RFID works?
- Limitation of RFID
- Satellite Media
- Conclusion
- Wireless Media
- Advantages of RFID
- GPS
- Application of RFID and GPS