

RFID Application System

Introduction

· Radio Frequency Identification or RFID is a generic term for technologies that use radio waves to automatically identify people or objects. For many commercial applications. · Today, RFID technology is used in applications such as access control, tagging inventory for security to prevent counterfeiting, access credit and bank accounts via embedded chips, and human resource tracking. The basic RFID systems is composed of three parts: transponders, antennas, and controllers.

Technical Specifications

- RFID Reader of Range 8 10 cm
- With 2 Nos. of RFID Tag Cards for Identification
- RFID Libraries for Software Developments.
- System should be based on MCS 51 Processor with open I/O Architecture
- Separate Programming Adaptor for Processor
- On board Relay for Real Activation of Physical Devices
- Buzzer Indication
- On Board Stepper Motor for movement control
- 16 x 2 LCD Display Module with 4 x 4 matrix keypad
- Single Channel A/D converter
- Facility for Real Time Signal stamping with DS 1307
- On Board 4 k of E²Prom memory
- Facility for Digital Input / Output though 8 LED's

Experiments

- Learn concept of RFID tool and interfacing with PC/processor.
- Program to read and display RFID tag's UID code on LCD.
- Program to compare UID code and display the name of person on LCD.
- Program to control switches to ON / OFF applications like light, FAN, Motors .
- Program to develop attendance system.
- Program to develop security system.
- Data further integration with other hardware or some standards software.



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