



RFID Trainer is a versatile training system for laboratories. It consists of many experiments to understand the basics of the Technology.

RFID is the abbreviated form of Radio Frequency Identification. RFID means storing and retrieving data through Electromagnetic Transmission to a RF compatible circuit. RFID Technology can be viewed as a new generation of Technology that replaces barcodes. However it is a core Technology with much wider range of applications in logistics, traffic, security, monitoring application etc.

It is a passive RFID system, working on 13.56 MHz Frequency range and supports multi protocols. Our system has a RFID reader module with an antenna and some RFID tag cards which support different protocols and each has different U.I.D (Unique Identification) number. The trainer kit consists of a reader chip for reading the tag and a microcontroller for processing the data. The transreceiver chip is a reader chip which supports ISO/IEC 14443A, 14443B, 15693 standards. Tags contain different Ics for different protocols.

Technical Specifications:

Operating Frequency : 13.56 MHz Modulation Type : ASK

Operating Range : Less than 10 cm Protocol Support : ISO 14443A

ISO 14443B ISO 15693

Application Software : This programme helps the students to

understand the attendence records by

using RFID technology

Supply Voltage : 3.3 V for controller and Reader,

5 V for LCD display

Micro Controller : 89C51 ED2 with 256 KByte RAM and

64 KByte ROM

Antenna : Inductively coupled coil type

Power Supply : $230 \text{ V} \pm 10\%$, 50 Hz

Fuse : 250 mA

- Highly integrated analog circuitry to Demodulate,
- Decode and Respond
- 3.56 MHz multi protocol support
- Provided with LCD and software
- RS-232 Interface
- On board LED Indication
- On board Buzzer indication
- On board Antenna
- Provided with application program software
- Test points are provided to observe the signals



Operational software window



Application software window

Note: Specifications are subject to change.

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