

Product Name :
RFID Trainer & Lab Training Kit for Vocational Training and Didactic Labs

Product Code :
CON-015-NE



Description :

Equipment for Education, Engineering and Vocational Training - RFID Trainer & Lab Training Kit - 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 transceiver chip is a reader chip which supports ISO/IEC 14443A, 14443B, 15693 standards. Tags contain different Ics for different protocols.

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

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 attendance 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 V $\pm$ 10%, 50 Hz
Dimension (mm) : W365 ´ D 265 ´ H 120
Fuse : 250 mA

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