

**RFID TRAINER** is an excellent learning/ training system for understanding basics, working and application of RFID (Radio Frequency Identification). It comprises of Contactless RFID Reader, 5 Mifare contactless cards, RFID Applications/Demo/Video Software. System works on 13.56 MHz and ISO 14443A read and write support. RFID is an automatic identification technique, storing and retrieving data using RFID tags or transponders. RFID tags (Active or Passive) is stuck into a product, animal or person for identifying using radiowaves. Most RFID tags have 2 parts: Integrated circuit for storing, processing information, modulating/ demodulating a RF signal and Antenna for receiving/ transmission. Applications for RFID includes transport payments, product tracking, animal identification, inventory systems, human implants, libraries etc.

**Features:**

- Software for understanding/working on Applications, Demo, Product Videos
- Contactless RFID Reader at 13.56 MHz with 6cm range
- Can be used for Active RFID tags (Optional)
- Read/Write ISO 14443A protocol Mifare 1K memory RFID cards
- 16 x 2 LCD Display with 89C51 Micro controller
- On board Breadboard with 840 tie points for designing other applications
- High Speed Transactions and flexible configurations
- USB to Serial interface for RFID Reader
- Parallel Interface for applications
- Weight : 6 Kg. (Approx.)
- Dimension : W 412 x H 150 x D310



**Specifications:**

- Operating Frequency: 13.56 Mhz
- Protocol: ISO 14443A and Mifare 1K Tags
- Antenna/ Modulation: In built Antenna with ASK modulation
- Software:
  - Software for RFID Contact less card reader with 7 applications
  - Screen Shot Videos for 7 Applications in steps
  - Live Video Demo for the complete RFID training system
  - RFID Introduction
- Operating Range: Contact less 6 cm
- Voltage & Current: 5V@80mA for Reader; 5V@200mA for LCD; 12V@1.5A for stepper motor
- Operating Temperature: -5 to 75 °C
- Applications
  1. Hardware Based Experiments
    - RFID Seven Segment Interface (Counter).
    - RFID Stepper Motor (Two) Interface.(With Two Stepper Motor)
    - RFID Logic Switch /LED Interface.
    - RFID LCD Interface.
    - RFID Breadboard Interface.
  2. Software Based Experiments
    - Alarm
    - Database
    - Calculator
    - Read/Write Block

**Accessories:**

- Mifare RFID cards -----5
- Software CD -----4
- Mains Cord -----1
- 25 Pin Parallel Male-Female Cable -----1
- 9 Pin Parallel Male-Female Cable -----1
- Instruction Manual -----1
- Patch Cord 2mm to 1mm 35cm Red & Black -----5 each.
- Patch Cord 2mm to 1mm 15cm Red & Black -----5 each.

Note: Specifications are subject to change.

**Tesca Technologies Pvt. Ltd.**

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,  
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,  
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com  
Website: www.tesca.in

