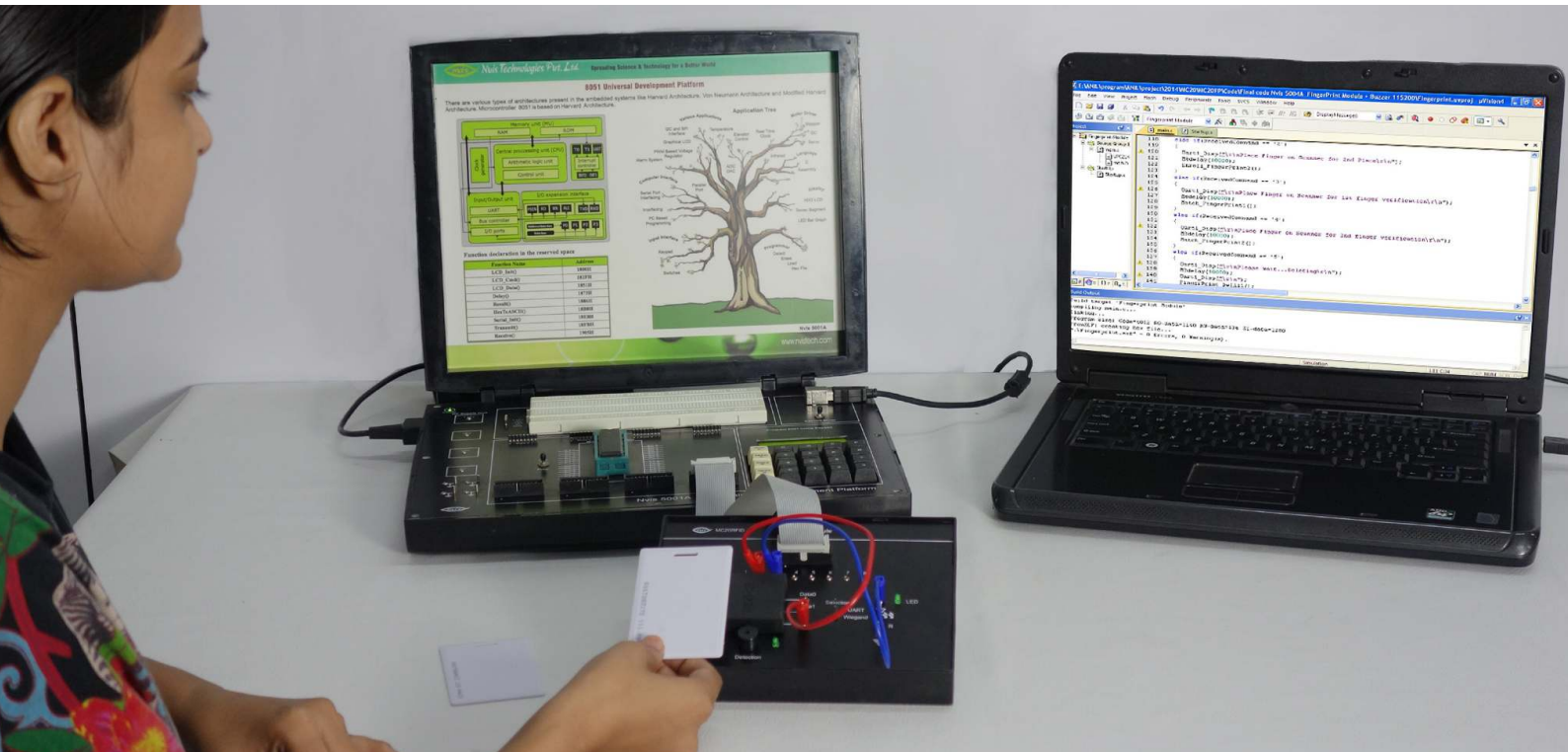




RFID Card Reader Module

Nvis MC20RFID



RFID Card Reader Module MC20RFID is an extension module for Nvis Microcontroller development platforms. The module has been designed for students and practicing engineers to gain invaluable practical experience on the principle and applications of microcontroller & RFID card reader. The object is to have a clear understanding of how RFID card reader is interfaced and controlled with microcontroller.

RFID card reader works at industry-standard 125 KHz frequency. It is a compact plug and play device. The module has a built in antenna. By using the serial interface the device can be connected to a PC/Laptop or any other host system (microcontroller).

Features

- On board TTL UART and Wiegand interface
- Selection pin for TTL UART and Wiegand communication
- LED and Buzzer indicates tag reading operation
- A very efficient module for portable readers
- Range 5cm – 6cm
- On board +5V Supply
- Expansion connectors for Microcontroller
- Every pin is marked in order to make the work easier
- Online Product Tutorial

Scope of Learning

- To study of implementation, analysis and interfacing of RFID card reader
- To learn & interface microcontroller with RFID card reader
- To learn and design Automation application using RFID

Note:

- This module is compatible with Scientech 620X Series and Nvis 5001A/2/3/4A/5 Series Microcontroller development platform.
- To run MC20RFID Module, MCO4 Module is required.



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Applications

- Product/Inventory management
- Shipping track & trace
- Tool tagging
- Handheld Reader
- Time and Attendance

Technical Specifications

Communication : TTL UART interface, Wiegand interface

Power Supply : +4.5V - +6.0V

Operating current : < 60mA

Baud rate : 9600bps (Default)

Read frequency : 125KHz

Digital output : 1/0 Bit

Read range : 50-60mm

TTL data format : 10 byte data (card no)

Wiegand data format : 26 Bit

Antenna : In-Build Antenna

Buzzer and LED : +5V

Power Supply : From Scientech 620X Series and
Nvis 500X Series Microcontroller
development platform

Product Tutorial : Online
(on www.Nvistech.com)

Interface : 20 pin FRC cable

Dimensions (mm) : W 175 x D 130 x H 28

Weight : 220 gms (approx.)

Included Accessories

RFID card (Tag) : 3 nos.

Patch cord : 5 nos.

Designed and Manufactured in India by -

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