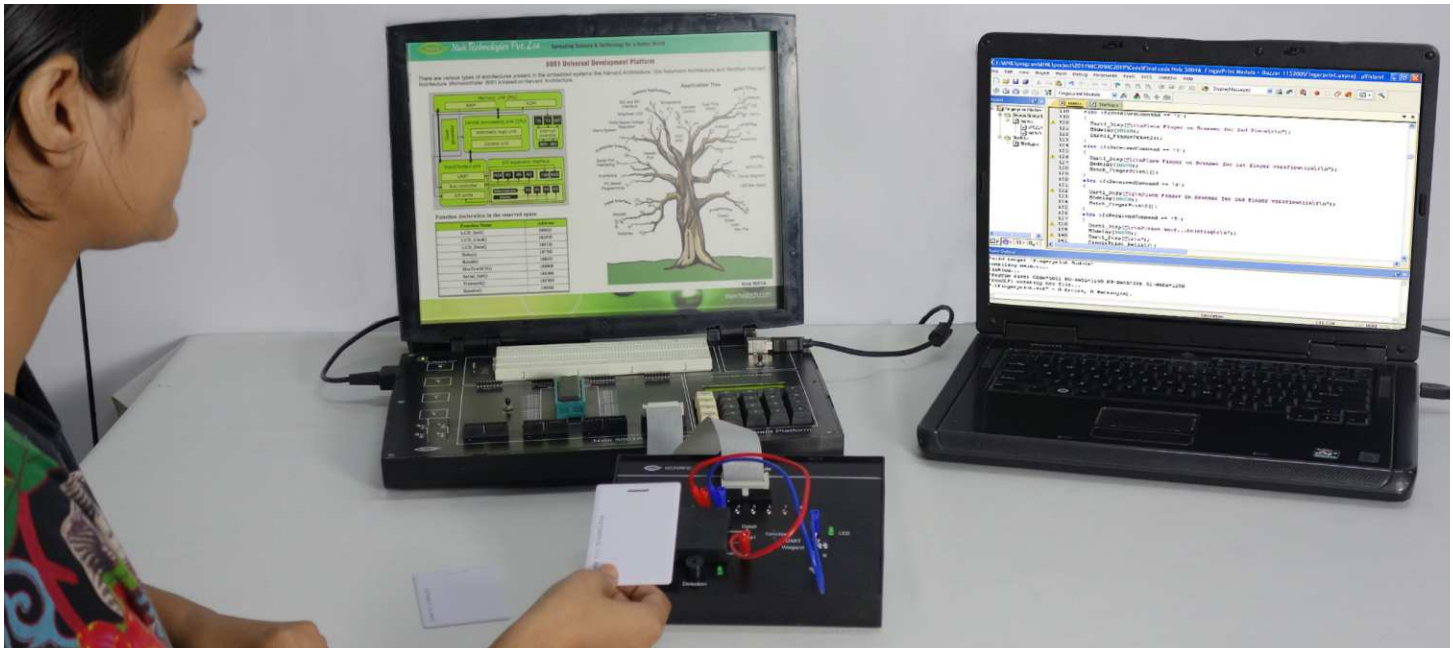
# RFID Card Reader Module

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 objective 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 to 6cm**
- **On board +5V Supply**
- **Expansion connectors for Microcontroller**
- **Every pin is marked in order to make the work easier**
- **Online Product Tutorial**
- **2 Year Warranty**

## 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 platforms.
- To run MC20RFID Module, MC04 Module is required.

## Applications

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

## Technical Specifications

| | | |
|---|---|---|
| Communication | : | TTL UART interface, Wiegand interface |
| Power Supply | : | +4.5V to +6.0V |
| Operating current | : | < 60 mA |
| 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 platforms. |
| 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 (approximately) |
| **Included Accessories** | | |
| RFID cards (Tag) | : | 3 nos. |
| Patch cords | : | 5 nos. |

Subject to Change.

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