Real Time Clock module
MC08

Real Time Clock module MC08 is an extension module for Nvis Microcontroller development platforms. It helps the user to gain invaluable practical experience of the principles and application of real time clock, LCD, switch and buzzer module in microcontroller based projects.

Real Time Clock module MC08 is generally used in the applications such as real time clock, alarm clock, Industrial automation, display related application and many more.

Features

- 16 x 2 characters LCD display interface

- DS1307 – RTC interface

- Switch interface

- Buzzer and LED interface

- PC based programming

- Expansion connectors for plug in with Microcontroller unit and prototyping area

- Every pin is marked in order to make the study easier

Note :

- This module is compatible with Scientech 620X Series and Nvis 5001A/2/3/4A/5 Series Microcontroller development platform.

- To run MC08 experiments with Nvis 5002, interface adaptor PCB is required.

Scope of Learning

▶ **Study of RTC interface**

▶ **Study of I^{2}C protocal**

▶ **Study of LCD, Buzzer and LED interface**

Technical Specifications

Display	:	16 x 2 LCD display
RTC	:	DS1307
RTC Interface type	:	I^{2}C
Buzzer	:	+5 V DC
LED	:	+5 V DC
Switch	:	4 nos.
Battery	:	3V DC CMOS
Power supply	:	From Scientech 620X Series and Nvis 500X Series Microcontroller development platform
Interface	:	20 pin FRC cable
Dimensions (mm)	:	W 255 x D 155 x H 80
Weight	:	380 gms (approx.)
Included Accessories :		
Battery	:	3V DC CMOS