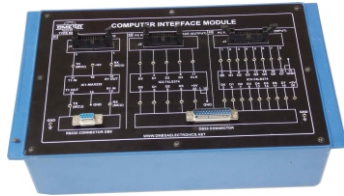




A SIGN OF QUALITY PRODUCT

**APPLICATION MODULES FOR
MICROCONTROLLER WITH PROGRAMMER
AT89S51/52, AVR ATMEGA8515
OMEGA TYPE MCM-03 & MCM-04**

**COMPUTER INTERFACE MODULE
OMEGA TYPE MCM-03**



**DISPLAY MODULE
OMEGA TYPE MCM-04**



Omega Type MCM-03 Computer interface module for development board with programmer trainers, MCM-03 is an Extension module. The module has been designed to have a clear understanding of how serial port and parallel port interfaced devices are controlled and interface with microcontroller. The apparatus is connected with microcontroller unit and PC. The computer interface trainer is made in such a way that student can understand the whole concepts of serial and parallel port and how they are interfaced with microcontroller.

OBJECTS:

- 01 To study PC "HyperTerminal".
- 02 To study Basics of Serial Communication of MCU and Interfacing between PC Serial port
- 03 To Study Programming and Transmission of Data through Serial Port.
- 04 To Study Programming and Reception of Data through Serial Port.
- 05 To study installation procedure of "ParallelPortViewer"
- 06 To Study MCU connection to Parallel Port of PC
- 07 To Study the Parallel Data Transmission From PC to MCU.
- 08 To Study PC Parallel Port Reception from MCU.
- 09 To Study of synchronous and asynchronous serial communication

TECHNICAL SPECIFICATIONS

- 01 Serial Port communication : RS 232 Port Using DB-9
- 02 PC Parallel Port Interface : 25 pin LPT port Using DB-25 Output & Input
- 03 Baud rate : 9600 bps
- 04 Power supply : From Micro controller development board with programmer trainer OE-5001 & OE-5003
- 05 Interface : Using 20 pin FRC cable
- 06 Test points : 36
- 07 Dimension (mm) : W 340 x H 125 x D 210
- 08 Weight : 700 gm (approx)

GENERAL SPECIFICATIONS:

- 01 RS-232 Interface using Rx/Tx of MCU for Uploading/ Downloading
- 02 Printer Interface
- 03 PC Based Programming
- 04 Expansion Connectors for plug in with Microcontroller Unit and prototyping area

Omega Type MCM-04 Display module is an ideal tool to study the working of displays used for industrial applications. The trainer has been designed to demonstrate the applications of Microcontroller. The objective is to connect and program a microcontroller to display data and monitoring.

OBJECTS:

- 01 To study implementation, analysis and interfacing of Dot Matrix Display
- 02 To study and analyze the interfacing of 16 x 2 Characters LCD
- 03 To study implementation, analysis and interfacing of 4 Digit Seven segment display

TECHNICAL SPECIFICATIONS

- 01 Dot Matrix Display Interface : One
- 02 16 x 2 LCD Interface : 16 x 2 Characters LCD
 - 2.1. Contrast control : 0 to -5 V (Variable)
 - 2.2. Back light control : 0 to 5 V (Variable)
- 03 Seven segment display: Four
- 04 Power supply : From Microcontroller development board with programmer trainer OE-5001 & OE-5003
- 05 Interface : Using 20 pin FRC cable
- 06 Test points : 39
- 07 Dimension : W 340 x H125 x D210
- 08 Weight : 800 gm (approx)

GENERAL SPECIFICATIONS:

- 01 PC based Programming
- 02 Expansion connectors for plug in with Microcontroller Unit and prototyping area
- 03 Every pin is marked in order to make work easier
- 04 Input/Output test points provided on board
- 05 Ready Experiments
- 06 Exhaustive course & reference material

LIST OF ACCESSORIES:

- 01 Operating Manual.....01.
- 02 Patch cord 2mm length 50cm Red & Black ..04

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS

Works:

28E & F, Malviya Industrial Area,
Jaipur-302 017 (INDIA)
Phone: 0141-2751559

E-mail : info@omegaelectronics.net
omegajaipur62@gmail.com

www.omegaelectronics.net

Marketing Division:

B-28, Fateh Singh Scheme, Opp. Rajputana
Palace Sheraton, Jaipur-302006 (INDIA)
Phone : 091-141-2375647, 2379223