OMEGA®

A SIGN OF QUALITY PRODUCT

APPLICATION MODULES FOR MICROCONTROLLER WITH PROGRAMMER AT89S51/52, AVR ATMEGA8515

OMEGA TYPE MCM-07 & MCM-08

TTL I/O INTERFACE MODULE
OMEGA TYPE MCM-07

Omega Type MCM-07 TTL I/O Interface Module enables students and practicing engineers to gain invaluable practical experience of the principles and applications of Microcontroller.

The objective is to connect and program an external controller, makes pins input and output and performs experiment like combination controller (AND, OR, NOT, NAND, NOR, EXOR & EXNOR Gates Operations), sequential controller, programmable counter, multiplexers etc.

The module provides buffered 8 TTL Outputs and 16 TTL Inputs. Logic state is indicated by LED'S. 16 Inputs are connected to DIP Switches and 8 outputs are connected to LED'S.

OBJECTS:

01 To Study the AND, OR, NOT, NAND, NOR, EXOR & EXNOR Gates Operations

TECHNICAL SPECIFICATIONS

01	LED'S	: 24 Nos.
02	Switches	: 16 Nos.
03	Power supply	: From Microcontroller development board with Programmer trainer OE-5001 & OE-5003
04	Interface	: Using 20 pin FRC cable
05	Test Points	: 24
06	Dimension (mm)	: W 340 x H125 x D210
07	Weight	: 700 gm (Approx.)

GENERAL SPECIFICATIONS:

01 16 Bit Input Interface
02 8 Bit Output Interface
03 Eight Pin DIP Switches 2Nos.
04 PC based Programming
05 Expansion connectors for plug in with Microcontroller Unit and prototyping area
06 Every pin is marked in order to make work easier
07 Input/Output test points provided on board
08 Ready Experiments
09 Exhaustive course & reference material

LIST OF ACCESSORIES:-

01 Operating Manual

REAL TIME CLOCK MODULE
OMEGA TYPE MCM-08

Omega Type MCM-08 Real Time Clock is an Extension module used with OE-5001,OE-5003, controllers board with programmer trainer. It helps the user to gain invaluable practical experience of the principles and application of real time clock, LCD and buzzer module in controller based projects. Real Time Clock Module MCM-08 is generally used in the applications such as real time clock alarm clock, Industrial automation, display related application and many more. We give a Contrast control and Backlight control in the board.

OBJECTS:

01 To study interfacing RTC DS1307 & it's Read/Write operation with help of PC.
02 To study Square Wave (SQWOUT) Generation on CRO.
03 To Study Digital Clock Setting and it's operation on LCD with Alarm Setting.

TECHNICAL SPECIFICATIONS

01	LCD Display	: 16 x 2 LCD display
02	Real Time Clock(RTC)	: DS1307
03	RTC Interface type	: I2C
04	BUZZER Section	: +5V DC
05	LED Section	: +5V DC
06	SWITCH Section	: Four
07	Battery	: 3.6VDC 600mAH
08	Power supply	: From Microcontroller development board with programmer trainer OE-5001& OE-5003
09	Interface	: 20 pin FRC cable
10	Test Points	: 10
11	Dimension (mm)	: W340 x H125 x D210
12	Weight	: 700 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

Note : These modules work only in combination with Omega Type OE-5001 & OE-5003 Trainers

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