

Product Name :
8086 Microprocessor Educational Lab Trainer for Vocational Training
and Didactic Labs

Product Code :
MIP-002-NE



Description :

Equipment for Education, Engineering and Vocational Training - 8086 Microprocessor Educational Lab Trainer - 8086 Microprocessor Trainer uses Intel 8086 is a 16-bit microprocessor as CPU. This is one step above 8085 (8-bit) microprocessor. The term "16-bit" means that its arithmetic logic unit, internal registers, and most of its instructions are designed to work with 16-bit binary words. The 8086 has a 16-bit data bus, so it can read data from or write data to memory and ports either 16 bits or 8 bits at a time. As its address bus is 20-bit wide, it can address memory up to 1,048,576 locations. Each of the 1MB locations represents bite wide. Therefore it is necessary to study by experimentation how a 8086 microprocessor responds for various conditions. Using this trainer, students studying in electronics, electrical, instrumentation, mechanical, chemical engineering subjects, B.Sc. (electronics, computers, and physics) laboratory, and polytechnics can learn programming an 8086 Microprocessor. This can be used to some extent for designing prototypes.

SPECIFICATIONS

CPU : 8086 Microprocessor @ 6.144 MHz

MEMORY : Total space ON BOARD is 32KB, Comprising of 16KB monitor EPROMS and 16KB RAM. Battery backup for RAM

PERIPHERALS :

: 8279 for controlling 24 feather keys (including 7 digit seven segment display)

:One 8255 for controlling 24 I/O lines and same are brought out to 50 pin FRC connector

EXPERIMENT:

The following programs can be performed on the above 8086 microprocessor trainer, detail of which have been provided in the manual supplied with the trainer.

Program to perform 16-bit addition

Program to perform 16-bit subtraction

Program to perform 16-bit multiplication
Program to perform 16-bit division
Program to display largest no. in an array
Program to display smallest no. in an array.
Program to arrange numbers in ascending order
Program to arrange numbers in descending order
Program to determine factorial of a number
Program to determine fibonacci series of a number
Program to check password
Program to perform scrolling display

SOFTWARE CAPABILITIES

The Monitor provided in 32K EPROM is capable of assisting the user, entering, editing and running the programs in assembly language.

FEATURES

The unit is operative on 230V, 50 Hz A.C. Mains
Strongly Supported by Detailed operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References
Weight : 4 Kg. (Approx.)
Power Supply : $\pm 12V$ @ 500mA . All assembled in an well designed cabinet

ACCESSORIES:

50 pin FRC Cable 1 No.

Naugra Export

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