Options Available

a. Interface Modules for training purpose (Calculator Keyboard, Elevator, Display, ADC with DAC, Dual Slope ADC, Dual DAC, Logic Controller, Crystal Clock Divider, Traffic Lights, RTC, Tone Generator, Stepper Motor, 8-bit, 16 Channel ADC etc.,)

b. 26 Core Ribbon Cable Connector Set.

SPECIFICATIONS

CPU : 8085 Operated at 3.072 MHz

Memory : Three 28-pin JEDEC sockets offer 64K Bytes of memory as follows:

16 K Bytes of firmware in one 27128
4K/8K/16K expansion through 2732/2764/6264/27128

32KB of static RAM using one 62256 with battery backup.

Firmware : Serial and Keyboard Monitors.
Centronics Printer Interface Driver Software.
EPROM Programming Software.
Audio Tape Interface Driver Software

Peripherals

8279: To control 32 keys keyboard and 6-digit, 0.5" seven segment LED display.

8253: 3 Programmable interval timers
Timer 0 is used for implementing single-step facility, Timer 1 is used for generating baud clock and Timer 2 is available to the user (Through jumper option, user can use Timer 1 also, if user does not use it for baud clock).

8251: For serial communication supporting all standard bauds from 110 to 19,200. (Baud is selected through on-board DIP switch)

8255: Two numbers are available to user giving 48 programmable I/O lines.

Interface Signals

CPU BUS : Demultiplexed and buffered TTL compatible signals brought-out to two 26 pin ribbon cable (spectra-strip type) connectors.

Parallel I/O : 48 lines (2 X 8255) of TTL compatible bus brought-out to two spectra-strip type ribbon cable connectors.

Serial I/O : RS-232C with standard MODEM control signals through on-board 9 pin D-type female connector.

Interrupts

All interrupts except TRAP (used for single-step implementation) are available to user.

Power Supply (Optional)

+5V, (± 0.1V), 3A
+12V,(± 1.0V), 250mA
-12V, (± 1.0V), 100mA
30V, (± 2.0V), 100mA