

## 8085 MICROPROCESSOR TRAINER (LED Ver.)

Model: VTPL-8085



VTPL-8085 is a single board Microprocessor Trainer Kit based on 8085 Microprocessor which is widely used to train engineers to develop software / hardware for any industrial process & control. This Kit consists of power-full Monitor EPROM, RAM, I/O Lines, Timer/Counter, Serial, Seven Segment Display and Keyboard for Man to Machine Interface.

### TECHNICAL SPECIFICATION :

- CPU : 8085 CPU operating at 6.144 Mhz
- ROM : 8K bytes of Powerful Monitor Program using 27512 EPROM
- RAM : 8K bytes of RAM using 6264 with Battery Backup using NICD Battery.
- Memory Expansion : up to 56KB.
- Timer/Counter : Three Channel Timer/Counter using 8253 brought out at 10 Pins FRC Connector.
- I/O Lines : 24 I/O lines provided through 8255 brought out at 26 Pins FRC Connector.
- RS232C Interface : Through SID/SOD lines
- Modes of commands : Hex Key pad Mode  
: Serial Mode
- Display : Six Digit Seven Segment Display using 8279
- Keyboard : 28Key's Hex Keypad using 8279 Keyboard Display Controller.
- Downloading/Uploading : Facility for Downloading/Uploading files from/to PC.
- Bus : All address, data & control lines are available on KXT Bus 50 pin FRC Connector.
- Power Supply : 230 V  $\pm$ 10%, 50/60 Hz
- Power Consumption : 3 VA approximately
- Dimensions (mm) : W 190 x D 279 x H 95
- Weight : 2.8 Kg. approximately
- Operating Conditions : 0-40°C, 80% RH

### **VIJAYANTA TECHNOLOGIES PVT. LTD.**

(Formerly Vijai Electronics)

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## **FEATURES**

- A self contained Trainer
- Built in DC Power Supply
- Fully documented operating manual
- All IC's are mounted on IC Sockets.
- Bare board Tested Glass Epoxy SMOBC PCB is used.
- 8K Bytes of EPROM with 8K bytes of Battery Backup RAM.
- 24 I/O Lines, Three Channel Timer/Counter, PC Serial Interface.
- Seven Segment Display with 28 Keys Hex Keypad.
- Power-full Command like Single Stepping, Break Point, Full Clock Execution, Examine Memory/Register.
- Uploading & Downloading to and from PC in Windows98/XP/NT.
- Attractive Plastic enclosures of Light weight Box
- Compact Size
- 1 Year Warranty

## **LIST OF EXPERIMENT**

- Study of assembly language Programming of 8085 Microprocessor
- Study of interfacing cards using I/O lines
- Study of study cards using Address / Data Bus.

*Note: There may be any change in specification due to continuous R & D without notice.*

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