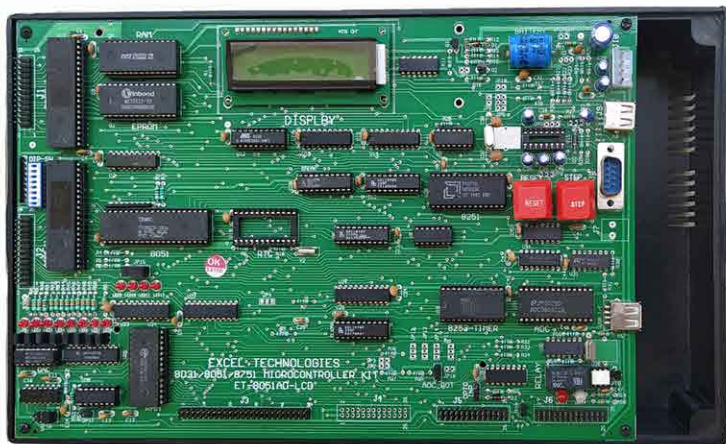




# 8051 MICROCONTROLLER TERINER(LCD)



**MODEL : ET-8051ADLCD**

## **8051 MICROCONTROLLER LCD KIT MODEL: ET-8051LCD**

Micro Controller Kit Based On Intel's 8031/51Micro Controller having following specifications:

- CPU: 8031 / 8051 operating @ 11.0592 MHz.
- MEMORY: EPROM1 32KB bytes with Monitor Software.
- EPROM2: Optional – 32KB ROM.
- RAM1: 32 KB Data RAM.
- RAM2: 32 KB Program/Data RAM.
- I/O PARALLEL: 48 I/O lines using two 8255.
- I/O SERIAL: One RS232C compatible interface, using USART-8251A with programmable baud rates through 8253 programmable timer. These lines are terminated in a 9- pin D type female connector. • TIMER: Three 16 bit counter /timer using 8253.
- KEYBOARD: External PC-AT Keyboard.
- DISPLAY: Alphanumeric LCD module(2 Lines x 16 characters).
- BUS SIGNALS: All bus signals are terminated in FRC connectors. On chip port lines P1.0 to p1.7 T0, T1, INT1, INT0 are also terminated.
- MONITOR SOFTWARE: 32KB of system monitor, which allows the user to enter, verify, debug or execute the program either from the on-board PC keyboard and display or through serial mode. On-line assembler using PC keyboard and LCD Display.

## **ADVANCE 8051 MICROCONTROLLER LCD KIT MODEL: ET-8051ADLCD**

Advance Micro Controller Kit Based On Intel's 8051/31Micro Controller having following specifications:

- 8031/51 Micro controller (8 bit), operating at 20 MHz crystal frequency.
- 32K EPROM loaded with Powerful Monitor Program
- 32K bytes of RAM available to the user.
- 16K /8K Bytes of Scratch pad Ram.
- Total On board memory expansion to 64K bytes using 27512/62256 with 3 sockets of 28 pin.
- Memory mapping definable by the user.
- 48 Programmable I/O lines through 8255
- Three 16 Bit Timer/Counters through 8253.
- 8251 for RS232C interface for PC
- On Board Interrupt Controller
- On Board Real Time Clock
- On Board Battery Back Up for RAM
- 20x4 LCD Display
- IBM Compatible ASCII Keyboard
- On Board A/D Converter
- On Board D/A Converter
- On Board Opto Isolated Input
- On Board Relay contacts
- Additional 8 LEDs available for interfacing to Port 1
- Additional 8 TTL input available through DIP-Switch
- On Board Assembler / Disassembler
- Powerful software commands.
- Down/Up loading of files from/to PC.
- Built in Power Supply

## **INTERFACING MODULES**

Various types of interfacing modules from EXCEL can be hooked to these kit to perform simple experiments in the lab. These modules are very helpful in learning about real life interfacing problems of Microcontroller

*Note : Specifications are subject to change due to our constant efforts for Improvement. Please refer to quotation for final specifications.*