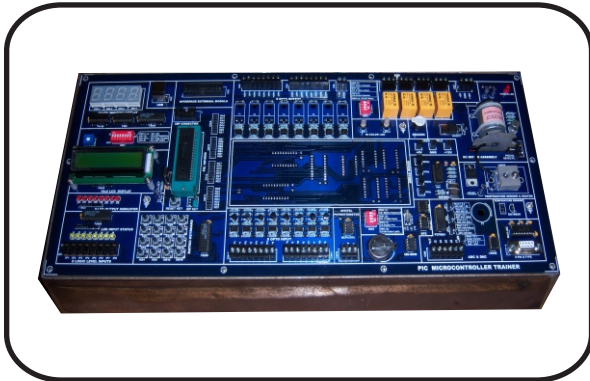


E87-05 PIC EMBEDDED TRAINER KIT



Specifications

- CPU: Microchip 18F4550 operating on crystal frequency @ 20MHz.
 - ❖ On-chip 32KB Flash memory and 2048 byte SRAM.
 - ❖ On-chip 256byte EEPROM.
 - ❖ On-chip UART, SPI, I2C, PWM.
 - ❖ On-chip 8 Channel 10 bit ADC.
 - ❖ On-chip 32 I/O Lines are provided in four 16 pin Connector.
 - ❖ CPU provided on ZIF Socket.
- ISP Programming facility.
 - ❖ 10 pin ISP Connector provided on board for Programming.
 - ❖ ISP selection Key is provided
 - ❖ USB based JTag Programmer/Recorder in metal enclosure.
- On-board Reset Key.
- Mini Signal Generator
 - ❖ Fixed TTL clock of frequencies 10 Hz, 100 Hz, 1KHz & 10 KHz.
- Onboard Applications
 - ❖ 8 LED's to display Digital Output.
 - ❖ 8 Switches to give Digital Input indicated by LED's.
 - ❖ 2 Bicolor LEDs to display.
 - ❖ 16x2 Alphanumeric LCD backlit display.
 - ❖ 4x4 Matrix Keyboard.
 - ❖ 500 Tie Points Bread Board Area provided
- Piezoelectric Buzzer.
- SPI Digital Potentiometer using MCP41010
- Four nos. of 12V SPDT Relay.
- 4 digit seven segment displays.
- 8 inputs & 8 Outputs are Optically Isolated using Pc817
- 12V DC Motor interface Photo detector assembly
- I²C compatible:
 - ✓ 24C512 EEPROM (64KB)
 - ✓ DS1307 RTC with suitable battery
 - ✓ 4Ch. 8bit ADC & 1Ch. 8 bit DAC using PCF8591.
- Temperature sensor interface using Lm35.
- Resistive Heater for Temperature Sensor.
- Temperature sensor interface using DS18B20.
- RS232 Serial Interface provided through 9 Pin D-Type Connector
- 24 I/O Lines Provided on a 26 pin FRC Connector for external interface.
- On board supply + 12V/1A, 5V/2A is Provided.
 - ❖ Supply Input Voltage: 230V AC.
 - ❖ All ICS are mounted on IC Sockets.
 - ❖ Bare board Tested Glass Epoxy SMOBC PCB is used.
 - ❖ Attractive Metallic enclosures.
 - ❖ 9 Pin Serial Cable & USB Cable Provided
 - ❖ Software in windows XP/2000
 - ❖ User's Manual with sample programs for all on board features

Note : Specifications can be altered without notice in our constant efforts for improvement.