



## Description

The PIC 16FXX Microcontroller Trainer is a versatile, laboratory-grade training platform designed for comprehensive learning of microcontroller architecture, programming, and peripheral interfacing. The trainer supports hands-on experimentation with a wide range of input/output and control applications and is fully compatible with commonly used add-on interface cards, including those used with 8051 trainer kits.

## Core Specifications

- **Microcontroller Family:** PIC 16FXX series
- **User Data Memory:** Minimum 32 KB SRAM
- **Monitor Program Memory:** Minimum 32 KB EEPROM
- **On-board Interfaces:** All standard connectors integrated on the main board
- **Display:** Minimum 2 × 16 alphanumeric LCD module

## Interfacing & Expansion Compatibility

The trainer is designed to be compatible with add-on cards commonly used in 8051 trainer kits, enabling flexible experimentation and reuse of laboratory resources. Supported interface modules include:

- 4 × 4 Matrix Keypad
- 7-Segment Display Board
- LCD Interface Card
- DAC 0800 Interface Card
- ADC 0809 Interface Card
- Traffic Light Controller Interface Card
- Stepper Motor Interface Card
- Relay and Buzzer Interface Card
- Digital Switch and LED Interface Card

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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- Provision for additional standard interface cards

**Educational Applications**

- Microcontroller programming and debugging
- Digital and analog I/O interfacing
- Data acquisition using ADC/DAC modules
- Control of electromechanical devices such as relays and stepper motors
- Real-time embedded system application development

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