



## Purpose & Application

Designed as an educational platform for learning and experimentation, this training kit provides a comprehensive environment for:

- Assembly language programming
  - Microprocessor architecture
  - Hardware interfacing
- All supported with **real-time feedback** via an integrated LCD display.

## Technical Specifications

Category	Specification
<b>CPU</b>	8085 microprocessor, operating at <b>6.144 MHz or higher</b>
<b>Memory</b>	- <b>EPROM</b> : 8 KB or more (Monitor Program) - <b>RAM</b> : 8 KB or more with <b>Ni-Cd battery backup</b>
<b>Memory Expansion</b>	On-board support for memory expansion up to <b>64 KB</b>
<b>Timer/Counter</b>	3-channel Timer/Counter via <b>8253</b> , accessible through <b>10-pin FRC connector</b>
<b>Parallel I/O</b>	- 24 lines via <b>8255</b> , connected to a <b>26-pin FRC connector</b> - 22 lines via <b>8155</b> , connected to a <b>26-pin FRC connector</b>
<b>Peripheral ICs</b>	Integrated: <b>8255, 8253, 8251, 8279</b>
<b>Serial Communication</b>	RS-232C interface through <b>SID/SOD</b> lines
<b>Operating Modes</b>	- ASCII Keypad Mode - Serial Communication Mode
<b>Display &amp; Input</b>	20x2 <b>Backlit LCD</b> display paired with an <b>ASCII keyboard</b>
<b>PC Communication</b>	Supports <b>file upload/download</b> from a PC
<b>Bus Accessibility</b>	All address, data, and control lines available via <b>50-pin FRC connector</b>

## Optional Interface Modules

This kit supports various interface modules to enhance practical learning:

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



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- **Keyboard Interface** (Calculator type)
- **Display Interface**
- **Dual 8-bit DAC Module**
- **16-Channel 8-bit ADC Module**
- **8-Channel 12-bit ADC Module**
- **Traffic Light Simulation**
- **Music Tone Generator**
- **Stepper Motor Control**
- **DC Motor Interface**
- **Real-Time Clock Module**

#### **Included Accessories / Spares**

- FRC Connectors
- EPROM and RAM memory modules
- Power Supply Unit
- Optional Interface Modules (as listed above)

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