Description

The 8086/8088 Microprocessor Trainer is a modular, laboratory-oriented training system designed for effective teaching and hands-on experimentation with 16-bit microprocessor architecture and interfacing techniques. The trainer enables students to understand hardware–software interaction, I/O interfacing, and real-time control applications through a set of dedicated plug-in modules.

Core Features

- Based on **Intel® 8086/8088 microprocessor architecture**
- Modular design supporting easy interfacing of external I/O and application modules
- Suitable for instruction in microprocessor programming, peripheral interfacing, and control system applications

Included Application & I/O Modules

- **8-bit LED Display I/O Board** for digital output and port programming experiments
- **8 × 8 Dot Matrix Display I/O Board** for alphanumeric and pattern display applications
- **Traffic Light Control System Module** for real-time control and sequencing experiments
- **Stepper Motor Control Module** for learning motor interfacing, speed, and direction control

Educational Applications

- Microprocessor instruction set and programming concepts
- Parallel I/O interfacing and data transfer
- Display interfacing and timing control
- Real-time control system implementation using external peripherals

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

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