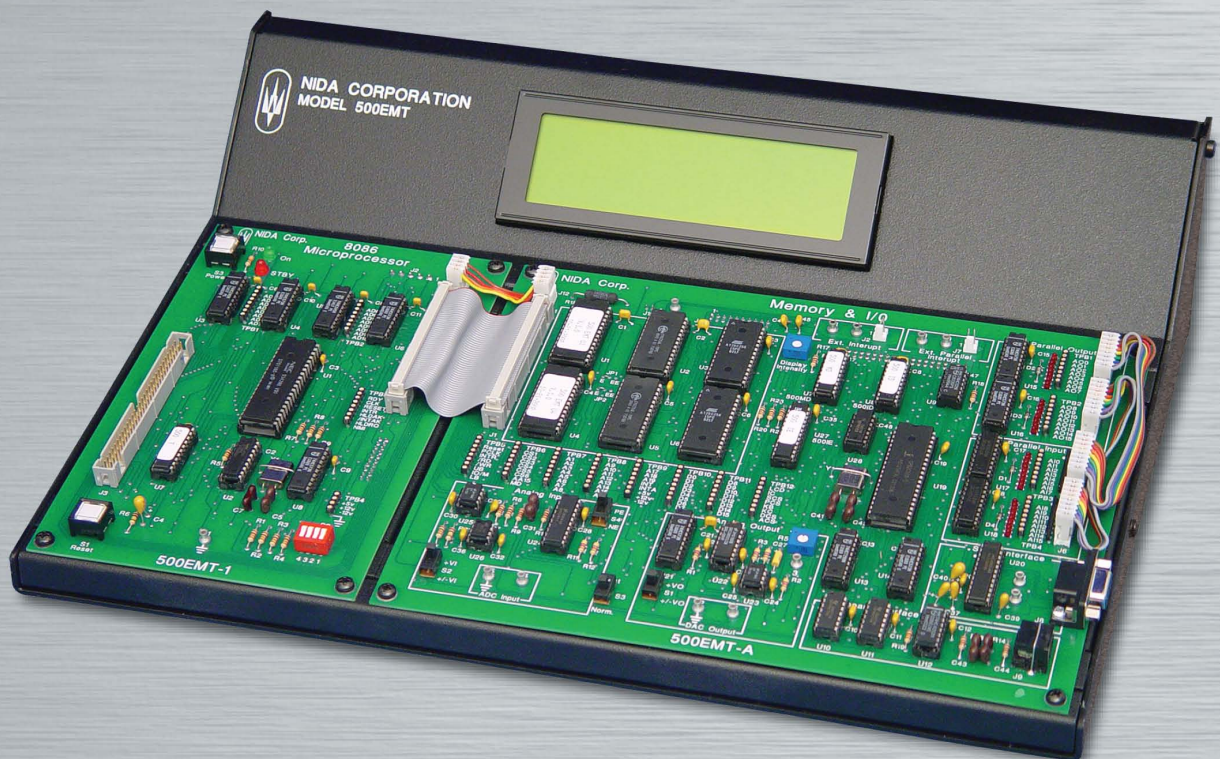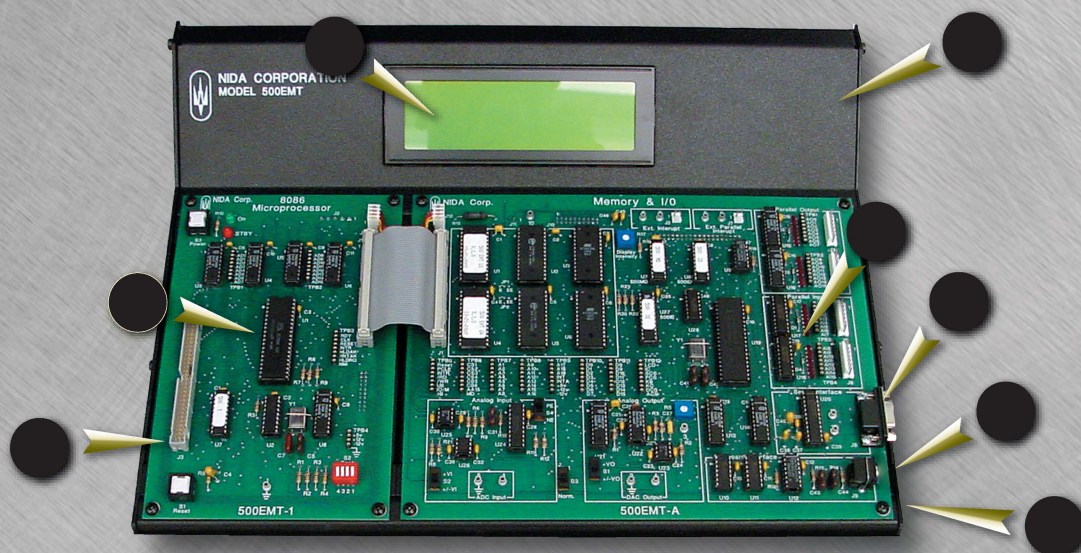# Microprocessor Trainer

Model 500EMT

The E & L-Nida Model 500EMT Microprocessor Trainer is designed to meet the microprocessor requirements of military, educational, and industrial training programmes. The Model 500EMT is based on the proven Intel 8086 microprocessor, the foundation of the Pentium line of processors. The trainer's processor, memory, and input/output circuitry are completely accessible to the student for operation monitoring and troubleshooting. The Model 500EMT can be programmed and operated using a standard keyboard (included) or from a personal computer serial data port.

When used with the E & L-Nida CAI courseware, the Model 500EMT trainer becomes part of a complete training system containing theory, experimentation, and automatic fault insertion. For exploring other types of processors, the Model 500EMT supports an optional Motorola 68000 Microprocessor board that easily plugs into the trainer. Since the Model 500EMT is essentially a motherboard without a chassis, it is a popular training tool for teaching computer microprocessor theory, operation, and troubleshooting. The Model 500EMT Microprocessor Trainer: putting the power of the processor at your fingertips.

E & L-Nida Model 500EMT

Features

1. Parallel Expansion Port - provides connection to optional E & L-Nida microprocessor equipment.

2. Microprocessor Slot - accepts the 8086 Microprocessor circuit board or an optional Motorola 68000 Microprocessor circuit board.

3. LCD Display - 30 x 8 character display for text and graphics.

4. CAI Interface - accepts input from PC for interfacing with E & L-Nida courseware, fault insertion & monitoring.

5. Memory & I/O Board - open architecture allows students to explore input, output, registers, memory, and cache operation and processes.

6. Serial Interface - serial input and output connection for integration with external devices.

7. Keyboard Interfacing - PS/2 connection for standard 104 key input device (included).

8. Chassis - rugged all-metal construction for long service life.

Specifications

MPU: Intel 8086 operation in minimum mode with 16 bit data bus and 20 bit address bus.

RAM: Two 82258 SRAM chips and two 28C256 EEPROM chips.

ROM: Two 27C256 EPROM chips.

Display: LCD 240 x 68, 30 x 8 characters.

I/O: 16 bit parallel I/O port, RS232 DB9 serial port, PS2 keyboard, 8 bit ADC, 8 bit DAC, CAI control.

Power Supply: 100-240 VAC, 50/60 Hz. Output DC, +5, +12, & -12 VDC. Maximum current draw: 2 amps.

Dimensions: 10.2cm H x 28.6cm D x 39.4cm W

Weight: 1.2 kg