

8086 MICROPROCESSOR TRAINER

MODEL FX8086

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MAIN FEATURES

| | |
|----------------------------|--|
| Microprocessor | Intel 80C86 |
| ROM | 16K Bytes (expandable to 64K Bytes) |
| RAM | 16K Bytes Static RAM (expandable to 64K Bytes) |
| Serial Ports | Two, RS-232 1 for PC-ADE8086 communication 1 for ADE8086 USART communication |
| LCD | 16 characters by 2 lines |
| Inputs | Standard PC/AT keyboard |
| PC Control | ADE8086 Software (Windows 95/98/NT) |
| Digital I/O | 48 lines maximum |
| Disassembler | PC software |
| Assembler | PC software (downloadable to ADE8086) |
| Crystal Frequency | 14.7456 MHz |
| Debugger | Single Step, Break point and Run in ADE8086 standalone and PC software |
| Expansion | 50-pin address, data and control buses header |
| Machine Code | Input through keyboard in standalone mode Download from PC after assembled |
| On Board Peripheral | PPI x 2, PIC, PIT, USART, RAM 16K Byte, ROM 16K Byte |

SPECIFICATION

Microprocessor

CPU 8086
CGD 8284A

Operating in Minimum Mode
Clock Generator Driver.
Oscillator source is a 14.7456MHz quartz crystal.
CPU clock, CLK is 4.9152MHz.
Peripheral clock, PCLK, is 2.4576MHz (ideal for baud rate generator).

Memory

EPROM 2764 x 2
RAM 6264 x 2

16K bytes ROM (expandable on board to 64K bytes)
16K bytes RAM (expandable on board to 64K bytes)

On-board Peripherals

PPI 8255A x 2

Programmable Peripheral Interface providing:
4 off 8-bit parallel ports with handshake lines.

PIT 8253

Programmable Interval Timer:
3 off 16-bit counter/timer channels.

USART 8251A

Universal Synchronous/Asynchronous
Receiver/Transmitter or Programmable Communication
Interface providing:

Full duplex asynchronous RS232 link, using standard
MC145407 device for level shifting.

Baud rate software programmable using the 8253.

PIC 8259A

Programmable Interrupt Controller providing:
8 levels of priority for above devices.

Power Supply Requirement

+5V @1.2A

A mains adaptor having the required O/P is supplied as part
of the ADE 8086 Training System

Notes:

Every FX8086 comes with a Technical Reference Manual, PC/AT keyboard and a standard power supply.