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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

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Microprocessor

CPU	8086	Operating in Minimum Mode
CGD	8284A	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	16K bytes ROM (expandable on board to 64K bytes)
RAM	6264 x 2	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
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Notes:

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