

HITACHI Development Tools and Microcontrollers — continued

H8 – Programming Adaptors



Low cost programming adaptors for microcontrollers to be programmed from a standard EPROM programmer.

SEM233

H8/325 Shrink DIP Adaptor.....	539-144†
H8/325 PLCC Adaptor.....	539-156†

Order Code	Price Each
539-144†	
539-156†	

† Available until stocks are exhausted

ZILOG Development Tools and Microcontrollers

Z8 CCP In-Circuit Emulator



The Z8 CCP Emulator supports the consumer controller processor MCUs. The emulator provides a hardware platform to develop and debug software in real time. It connects to a serial port of the host computer and uses graphical interface.

Features include:

- In-Circuit program debug emulation
- Real time emulation
- Z8 GUI emulator software
- Window-based user interface
- OTP support
- Selectable baud rates 9600 to 5706kbps
- Source level debug
- Zilog macro cross-assembler

Kit contents:

- Circuit board
- Cables - 18 pin DIP target
- Software disks
- User manuals

Device support:

- Emulation - Z86E02/03/04/06/30/31/33/40/43
- OTP programming - Z86E02/03/04/06/30/31/40/43, 001

Supplied with US power lead. UK (439-319), EU (210-699) leads available separately.

SEM828

Z86CCP01ZEM, In-Circuit Emulator	Order Code 311-2792	each
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Z86E02

A family of low cost 8-bit microcontrollers from Zilog with on-board comparators, watchdog timer, interrupt, timer/counter, power-on reset and low voltage protection.

Applications: ● Smoke detectors ● Battery chargers ● IR remotes ● Pointing devices ● Electronic games ● Appliances ● Motor control

SEM394

Mfr.	Pins	Description
86E02	ZILOG 18	8-bit CMOS Microcontroller, 512b OTP, 60 bytes RAM, 14 I/O lines - 8MHZ
86E02	ZILOG 18	8-bit Microcontroller, 512b OTP, 60 bytes RAM, 14 I/O lines, with selectable oscillator - 8MHZ
86E02	ZILOG 18	8-bit CMOS Microcontroller, 512b OTP, 60 bytes RAM, 14 I/O lines - 8MHZ

Mfrs. List No.	Order Code	1+	10+	100+
Z86E02-08PSC	.790-801			
Z86E02-08PSC1925	311-2809			
Z86E02-08SSC	SMD.790-813			

Z86E03-40

A low cost family of 8-bit microcontrollers from Zilog with on-board OTP PROM, RAM, I/O, timer/counters, watchdog, power-on reset/brown out protection and two comparator inputs that can be configured to provide analogue inputs/ADCs.

Features include:

Register-to-register architecture — avoids accumulator bottlenecks and is more code efficient than RISC processors.

Two timers on most devices (exception Z86E03) — combines with flexible clocking and interrupt modes for simpler software solutions.

Relocatable stack — only limited in size by total RAM space.

Fast context switching — to rapidly respond to interrupts and switch tasks.

Applications:

- Security systems
- Exercise equipment
- Remote controls
- Electronic games
- Kitchen appliances
- Microwave ovens
- Card readers
- Smart cards
- Keyboards
- Monitors
- Answering machines
- Mobile phones
- Automotive modules
- Industrial controls

SEM178

Mfr.	Pins	Description
86E03	ZILOG 18	8-bit CMOS MCU, 512b OTP PROM, 60 bytes RAM, 14 I/O lines – 8MHz
86E03	ZILOG 18	8-bit CMOS MCU, 512b OTP PROM, 60 bytes RAM, 14 I/O lines – 8MHz
86E04	ZILOG 18	8-bit CMOS MCU, 1Kb OTP PROM, 124 bytes RAM, 14 I/O lines – 8MHz
86E04	ZILOG 18	8-bit CMOS MCU, 1Kb OTP PROM, 124 bytes RAM, 14 I/O lines – 8MHz
86E04	ZILOG 18	8-bit Microcontroller, 1Kb OTP PROM, 124 bytes RAM, 14 I/O lines, with crystal oscillator – 12MHz
86E04	ZILOG 18	8-bit Microcontroller, 1Kb OTP PROM, 124 bytes RAM, 14 I/O lines, with RC oscillator – 12MHz
86E06	ZILOG 18	8-bit Microcontroller, 1Kb OTP PROM, 124 bytes RAM, 14 I/O lines, with selectable oscillator – 12MHz
86E08	ZILOG 18	8-bit Microcontroller, 2Kb OTP PROM, 124 bytes RAM, 14 I/O lines, with crystal oscillator – 12MHz
86E08	ZILOG 18	8-bit Microcontroller, 2Kb OTP PROM, 124 bytes RAM, 14 I/O lines, with RC oscillator – 12MHz
86E30	ZILOG 28	8-bit CMOS MCU, 4Kb OTP PROM, 236 bytes RAM, 24 I/O lines – 12MHz
86E30	ZILOG 28	8-bit Microcontroller, 4Kb OTP PROM, 236 bytes RAM, 24 I/O lines, with selectable oscillator – 16MHz
86E31	ZILOG 28	8-bit CMOS MCU, 2Kb OTP PROM, 124 bytes RAM, 24 I/O lines – 8MHz
86E31	ZILOG 28	8-bit Microcontroller, 2Kb OTP PROM, 124 bytes RAM, 24 I/O lines, with selectable oscillator – 16MHz
86E33	ZILOG 28	8-bit Microcontroller, 4Kb OTP PROM, 236 bytes RAM, 24 I/O lines, with selectable oscillator – 12MHz
86E34	ZILOG 28	8-bit Microcontroller, 16Kb OTP PROM, 236 bytes RAM, 24 I/O lines, with selectable oscillator – 12MHz
86E40	ZILOG 40	8-bit CMOS MCU, 4Kb OTP PROM, 236 bytes RAM, 32 I/O lines – 12MHz
86E40	ZILOG 44	8-bit CMOS MCU, 4Kb OTP PROM, 236 bytes RAM, 32 I/O lines – 12MHz, PLCC Package.....
86E40	ZILOG 28	8-bit Microcontroller, 4Kb OTP PROM, 236 bytes RAM, 32 I/O lines, with selectable oscillator – 16MHz
86E43	ZILOG 40	8-bit Microcontroller, 4Kb OTP PROM, 236 bytes RAM, 32 I/O lines, with selectable oscillator – 12MHz

Mfrs. List No.	Order Code	1+	10+	100+	250+
Z86E03-08PSC	526-319				
Z86E03-08SSC	SMD.526-320				
Z86E04-08PSC	485-380				
Z86E04-08SSC	SMD.485-391†				
Z86E04-12PSC1866	311-2810				
Z86E04-12PSC1903	311-2822				
Z86E06-12PSC	526-332				
Z86E08-12PSC1866	311-2858				
Z86E08-12PSC1903	311-2860				
Z86E30-12PSC	485-421				
Z86E30-16PSC	311-2883				
Z86E31-08PSC	569-975†				
Z86E31-16PSC	311-2895				
Z86E33-12PSC	311-2901				
Z86E34-12PSC	311-2949				
Z86E40-12PSC	492-735				
Z86E40-12VSC	SMD.492-747				
Z86E40-16PSC	311-2974				
Z86E43-12PSC	311-2986				

† Available until stocks are exhausted

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