

OTP Programming Adapters

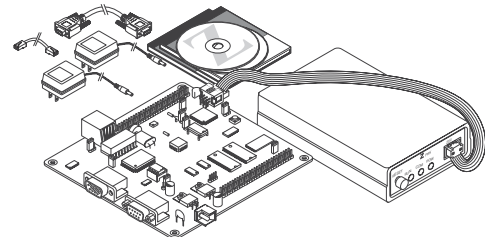
Description	Digi-Key Part No.	Price Each	Zilog Part No.
18 Pin SOIC Adapter	269-2006-ND	95.00	Z86E0700ZDP
Z8 Accessory Kit (28-DIP, 40-DIP) for Z86CCP01ZEM	269-2001-ND	46.43	Z86CCP00ZAC
44 Pin PLCC Adapter	269-2008-ND	74.83	Z86E4001ZDV
28 Pin Dip Adapter	269-2009-ND	33.75	Z86E3400ZDP
28 Pin SOIC Adapter	269-2010-ND	50.63	Z86E3400ZDS
44 Pin PQFP to 40 Dip Adapter	269-2021-ND	198.00	Z86E2101ZDF
44 Pin PQFP to 40 Dip Adapter	269-2022-ND	118.83	Z86E4001ZDF

eZ80 - The Next Generation

EZ80190AZ050EC AND EZ80190AZ050SC

Just as the Z80 revolutionized the semiconductor industry, the next generation eZ80 is revolutionizing the way that communications are happening today. This elegant system-on-a-chip can serve web pages over a TCP/IP network, allowing easy system monitoring and control, effortless processor code updates, and system compatibility. This solution enables any browser with access to your network the ability to control and monitor a network application. The eZ80 executes Z80 code four times faster than traditional Z80s at the same clock speed, and can operate at speeds up to 50MHz. Unlike most 8-bit microprocessors, which can only address 64Kb, the eZ80 can address 16MB without a Memory Management unit. The eZ80 Webserver also features an Embedded Internet Software Suite that enables the transmission and reception of HTML form data and the dynamic generation of web pages.

- FEATURES:** • 50MHz Processor • Multiply and Accumulate Engine • 16MB Linear Addressing • 3.3V Operation • 2 DMA Channels • Universal Zilog Interface (selectable UART, IIC, SPI) • 6 PRTs with Prescalers • 8KB SRAM • 32-Bit GPIO with Interrupt Support • On-Chip Oscillator • Optimized Pipeline Architecture • Zilog Debug Interface



Description	Package	Digi-Key Part No.	1	Price Each 25	100	Zilog Part No.
Webserver IC, Extended Temperature	100-LQFP	269-3123-ND	21.18	15.89	11.76	EZ80190AZ050EC
Webserver IC, Extended Temperature	100-LQFP	269-3865-ND◆	21.18	15.89	11.76	EZ80190AZ050EG
Webserver IC	100-LQFP	269-3124-ND	18.42	13.82	10.23	EZ80190AZ050SC
Webserver IC	100-LQFP	269-3866-ND◆	18.42	13.82	10.23	EZ80190AZ050SG

◆ RoHS Compliant

Z8Plus™ Microcontrollers

Employing the experience gained from the industry-standard Z80 and Z8 cores, the Z8Plus offers increased functionality, significantly higher performance, lower power requirements, and greater cost savings over other 8-bit microcontrollers. The Z8Plus is designed to be easy to use, even for designers who have never used a microcontroller before.

With single-cycle execution, powerful I/O capabilities and register-to-register architecture, the Z8Plus offers state-of-the-art flexibility and freedom for any designer in search of a low-cost solution for a variety of microcontroller applications.

The Z8Plus core offers several significant advantages compared to the current Z8 core. Foremost is performance improvement due to a reduced system clock division and a fixed instruction cycle time. The improvement is nearly 50%, depending upon instruction mix. For example, a Z8Plus-based part at 10MHz has performance comparable to a 16MHz part in production today. This, along with significant design improvements, leads to lower power and lower noise operation.

The Z8PE002 and Z8PE003 microcontrollers are the newest members of the popular Z8E001 Z8 Plus 8-bit microcontroller family. New features include voltage brown-out protection and power-on reset. Additionally, the "RESET" pin has been replaced with a general purpose I/O pin and oscillator circuitry to support RC configurations. These new parts are targeted at customers who require a powerful, yet small OTP microcontroller for use in general purpose applications.

EMULATOR/PROGRAMMER

- FEATURES:** • In-Circuit Program Debug Emulation • Real-Time Emulation • ZDS Emulator Software • Window-Based User Interface • On-Line Help • One-Time Programmable (OTP) Support • Selectable Baud Rates: 9,600 to 57.6 Kbps • Bi-sync Error-Correcting Communications Protocol

SPECIFICATIONS: Operating Temperature: 20°C ±10°C Power Requirements: 9.0VDC @ 0.5A Minimum (Typical) Dimensions: • Width: 6.75 inches (17.15 cm) • Length: 7.50 inches (19.05 cm) • Height: 0.90 inch (2.30 cm) Serial Interface: RS-232C @ 9,600, 19,200 (default), 28,800 or 57,600 Baud

HOST COMPUTER: Minimum Requirements: IBM PC (or 100% Compatible) 386-Based Machine: • 33MHz • 4MB RAM • VGA Video Adapter • Hard Disk Drive (2.5MB Free Space) • 3.5 inch, High-Density (HD) Floppy Disk Drive • RS-232C Com Port • Mouse or Pointing Device • Microsoft Windows 3.1

KIT CONTENTS (One of Each): Z8M001 Emulator Board; • Cable/Pods: 18-Pin Emulation Pod Cable; 9-Pin M-F Serial Cable (6 feet) • Host Software: Z8 Graphical User Interface (GUI); Zilog Macro Cross Assembler (ZMASM)/Zilog Developer Studio (ZDS) • Documentation: Zilog 1999 Technical Library CD ROM, which contains Z8 device data sheets, user manuals, application notes; Z8M001 Emulator User's Manual

Memory Size	I/O Lines	Oscillator Type External	Frequency Range Min/Max	Supply Voltage Range	Operating Temperature (°C)	Package	Required Emulator Tools	Required OTP Programming Tools	Digi-Key Part No.	Price Each			Zilog Part No.	
										1	25	100		
Z8E0010 Series														
512	32	13	XTAL/LC	DC - 10MHz	3.5 - 5.5	0 - 70	18-DIP	D	D	269-1117-ND	1.80	1.35	1.00	Z8E00010PSC
										269-3984-ND◆	1.80	1.35	1.00	Z8E00010PSG
Z8E00110 Series														
1K	64	13	XTAL/LC	DC - 10MHz	3.5 - 5.5	0 - 70	18-DIP	D	D	269-1121-ND	2.28	1.71	1.26	Z8E00110PSC
								D	D	269-3986-ND◆	2.28	1.71	1.26	Z8E00110PSG
								▲	D, 2	269-1123-ND	2.28	1.71	1.26	Z8E00110SSC
								▲	D, 2	269-3987-ND◆	2.28	1.71	1.26	Z8E00110SSG
					4.5 - 5.5	-40 - 105	18-DIP	D	D	269-3985-ND◆	2.49	1.87	1.39	Z8E00110PEG
Z8PE002 Series														
512	64	14	XTAL/LC	DC - 10MHz	3.0 - 5.5	0 - 70	18-DIP	D	D	269-4290-ND◆	1.92	1.44	1.07	Z8PE002PZ010SG
								▲	D, 17	269-1132-ND	2.10	1.58	1.16	Z8PE002HZ010SC
								▲	D, 17	269-4289-ND◆	2.10	1.58	1.16	Z8PE002HZ010SG
								▲	D, 17	269-1135-ND	2.28	1.71	1.27	Z8PE002HZ010EC
					4.5 - 5.5	-40 - 105	20-SSOP	▲	D, 17	269-4288-ND◆	2.28	1.71	1.27	Z8PE002HZ010EG
Z8PE003 Series														
1K	64	14	XTAL/LC	DC - 10MHz	3.0 - 5.5	0 - 70	18-DIP	D	D	269-1136-ND	2.67	2.01	1.49	Z8PE003PZ010SC
								D	D	269-4293-ND◆	2.67	2.01	1.49	Z8PE003PZ010SG
								▲	D, 2	269-1137-ND	2.67	2.01	1.49	Z8PE003SZ010SC
								▲	D, 2	269-4295-ND◆	2.67	2.01	1.49	Z8PE003SZ010SG
								▲	D, 17	269-1138-ND	2.82	2.12	1.57	Z8PE003HZ010SC
								▲	D, 17	269-4291-ND◆	2.82	2.12	1.57	Z8PE003HZ010SG
								▲	D, 2	269-1140-ND	2.94	2.21	1.63	Z8PE003SZ010EC
								▲	D, 2	269-4294-ND◆	2.94	2.21	1.63	Z8PE003SZ010EG

Key	Description	Digi-Key Part No.	Price Each	Zilog Part No.
Emulator/Programmer †				
D	Z8 Plus Emulator/Programmer	269-2033-ND	161.33	Z8ICE001ZEM

◆ RoHS Compliant ▲ Zilog's emulators support this part, but the in-circuit target cable is configured for DIP only. For designs that require a surface mount package, accommodations will have to be made to use the emulator for in-circuit DIP emulation. † For OTP programming adapters, please refer to Z8 Series.

More Product Available Online: www.digkey.com

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zilog® Turnkey Universal Remote Control Kit

The Crimzon RC Bullet™ Reference Design Kits are ideally suited for Universal Remote Control applications.

These kits feature both learning and non-learning models with both three-in-one (Cable/Satellite, DVD/VCR and TV) and six-in-one feature sets (Cable, Satellite, Audio, TV, DVD and VCR) for the North American and European marketplaces.

Built on the Z8-based ZLx16300 and ZLx32300 IR MCU, and competitively priced, the kits give you everything needed to start manufacturing branded universal remote controls today.

269-3380-ND	USA, 3-Function, Non-Learning.....	\$129.00
269-3381-ND	European, 3-Function, Non-Learning.....	\$129.00
269-3382-ND	USA, 6-Function, Non-Learning.....	\$129.00
269-3383-ND	European, 6-Function, Non-Learning.....	\$129.00
269-3384-ND	USA, 6-Function, Learning.....	\$159.00
269-4665-ND♦	USA, 6-Function, Learning.....	\$160.00
269-3385-ND	European, 6-Function, Learning.....	\$159.00

♦ RoHS Compliant

Thermostat Application Module Kit

Thermostat Application Module provides a flexible platform for training and experimentation on a number of microcontroller and microprocessor devices.

The module contains no processor. It is designed to attach to the eZ80 development platforms, which contain both the processors and the control programs that make the development function.

Features:

- Simple bit-I/O (LEDs, switches, lamp, and fan)
- Alphanumeric LCD display via the GPIO interface
- Temperature sensor via the I²C interface
- EEPROM data storage via the I²C interface
- Flash program storage for eZ80 family devices

269-3198-ND.....\$85.00

Z86L99 with IR Solutions

In-circuit emulators are interactive, Windows-oriented development tools, providing a real-time environment for emulation and debugging. Provides essential timing and I/O circuitry to simplify user emulation of prototype hardware and software products.

Features:

- Supports up to 32K of ROM
- Varies the operating voltage from 3.0V – 4.0V
- Supports in-circuit emulation on target systems that operate at 3.0V – 4.0V
- Powers the In-Circuit Emulator (ICE) chip from either the emulator or target board
- Supports IR devices that operate at up to 8MHz
- Emulates 28-pin DIP and 40-pin DIP
- Provides OTP programming for 28-pin DIP and SOIC packages, 40-pin PDIP, 48-pin SSOP
- Multi-tasks with other Windows applications while Zilog Developer Studio (ZDS) is running

269-3241-ND Z86L99 In-Circuit Emulator.....\$850.00

Microprocessors

Speed (MHz)	Features	Timers	Operating Voltage (V)	Operating Temperature Range	Package	Digi-Key Part No.	Price Each			Zilog Part No.
							1	25	100	
6	2-UARTS, 2DMA's	2	5	0°C – 70°C	80-QFP	269-3004-ND	9.33	7.00	5.19	Z8018006FSC
6	2-UARTS, 2DMA's	2	5	0°C – 70°C	80-QFP	269-3879-ND♦	9.33	7.00	5.19	Z8018006FSG
6	2-UARTS, 2DMA's	2	5	-40°C – 105°C	64-Dip	269-3880-ND♦	10.50	7.88	5.84	Z8018006PEG
6	2-UARTS, 2DMA's	2	5	0°C – 70°C	64-Dip	269-3881-ND♦	8.85	6.64	4.91	Z8018006PSG
6	2-UARTS, 2DMA's	2	5	-40°C – 105°C	68-PLCC	269-3007-ND	10.50	7.88	5.84	Z8018006VEC
6	2-UARTS, 2DMA's	2	5	0°C – 70°C	68-PLCC	269-3008-ND	8.85	6.64	4.91	Z8018006VSC
8	2-UARTS, 2DMA's	2	5	0°C – 70°C	80-QFP	269-3009-ND	9.90	7.43	5.50	Z8018008FSC
8	2-UARTS, 2DMA's	2	5	0°C – 70°C	80-QFP	269-3882-ND♦	9.90	7.43	5.50	Z8018008FSG
8	2-UARTS, 2DMA's	2	5	-40°C – 105°C	64-Dip	269-3883-ND♦	11.16	8.37	6.20	Z8018008PEG
8	2-UARTS, 2DMA's	2	5	0°C – 70°C	64-Dip	269-3884-ND♦	9.21	6.91	5.11	Z8018008PSG
8	2-UARTS, 2DMA's	2	5	-40°C – 105°C	68-PLCC	269-3012-ND	12.72	9.54	7.07	Z8018008VEC
8	2-UARTS, 2DMA's	2	5	-40°C – 105°C	68-PLCC	269-3885-ND♦	12.72	9.54	7.07	Z8018008VSC
8	2-UARTS, 2DMA's	2	5	0°C – 70°C	68-PLCC	269-3886-ND♦	9.21	6.91	5.11	Z8018008VSG
10	2-UARTS, 2DMA's	2	5	0°C – 70°C	80-QFP	269-3887-ND♦	11.28	8.46	6.27	Z8018010FSG
10	2-UARTS, 2DMA's	2	5	-40°C – 105°C	64-Dip	269-3888-ND♦	13.08	9.81	7.26	Z8018010PEG
10	2-UARTS, 2DMA's	2	5	0°C – 70°C	64-Dip	269-3889-ND♦	11.28	8.46	6.27	Z8018010PSG
10	2-UARTS, 2DMA's	2	5	-40°C – 105°C	68-PLCC	269-3890-ND♦	13.08	9.81	7.26	Z8018010VSG
10	2-UARTS, 2DMA's	2	5	0°C – 70°C	68-PLCC	269-3018-ND	11.28	8.46	6.27	Z8018010VSC
6	2-UARTS, 2DMA's	2	5	-40°C – 105°C	44-LQFP	269-4572-ND♦	4.92	3.69	2.73	Z84C0006AEG
6	2-UARTS, 2DMA's	2	5	-40°C – 105°C	40-Dip	269-3892-ND♦	4.92	3.69	2.73	Z84C0006PEG
6	2-UARTS, 2DMA's	2	5	-40°C – 105°C	44-PLCC	269-3893-ND♦	4.92	3.69	2.73	Z84C0006VSG
8	2-UARTS, 2DMA's	2	5	-40°C – 105°C	44-LQFP	269-4573-ND♦	4.92	3.69	2.73	Z84C0008AEG
8	2-UARTS, 2DMA's	2	5	-40°C – 105°C	40-Dip	269-3895-ND♦	4.92	3.69	2.73	Z84C0008PEG
8	2-UARTS, 2DMA's	2	5	-40°C – 105°C	44-PLCC	269-3896-ND♦	4.92	3.69	2.73	Z84C0008VSG
10	2-UARTS, 2DMA's	2	5	-40°C – 105°C	44-LQFP	269-4574-ND♦	4.92	3.69	2.73	Z84C0010AEG
10	2-UARTS, 2DMA's	2	5	-40°C – 105°C	40-Dip	269-3898-ND♦	4.92	3.69	2.73	Z84C0010PEG
10	2-UARTS, 2DMA's	2	5	-40°C – 105°C	44-PLCC	269-3899-ND♦	4.92	3.69	2.73	Z84C0010VSG
20	2-UARTS, 2DMA's	2	5	-40°C – 105°C	44-LQFP	269-4575-ND♦	11.64	8.73	6.46	Z84C0020AEG
20	2-UARTS, 2DMA's	2	5	-40°C – 105°C	40-Dip	269-3901-ND♦	11.64	8.73	6.46	Z84C0020PEG
20	2-UARTS, 2DMA's	2	5	-40°C – 105°C	44-PLCC	269-3030-ND	11.64	8.73	6.46	Z84C0020VEC
20	2-UARTS, 2DMA's	2	5	-40°C – 105°C	44-PLCC	269-3902-ND♦	11.64	8.73	6.46	Z84C0020VSG
8	2-UARTS, 2DMA's	2	5	-40°C – 105°C	40-Dip	269-3903-ND♦	10.80	8.10	6.00	Z84C1008PEG
10	2-UARTS, 2DMA's	2	5	0°C – 70°C	80-QFP	269-3098-ND	9.33	7.00	5.19	Z8S18010FSC
10	2-UARTS, 2DMA's	2	5	0°C – 70°C	80-QFP	269-4296-ND♦	9.33	7.00	5.19	Z8S18010FSG
10	2-UARTS, 2DMA's	2	5	0°C – 70°C	64-Dip	269-4297-ND♦	8.85	6.64	4.91	Z8S18010PSG
10	2-UARTS, 2DMA's	2	5	0°C – 70°C	68-PLCC	269-4298-ND♦	8.85	6.64	4.91	Z8S18010VSG
20	2-UARTS, 2DMA's	2	5	-40°C – 105°C	80-QFP	269-4299-ND♦	14.88	11.16	8.26	Z8S18020FEG
20	2-UARTS, 2DMA's	2	5	-40°C – 105°C	80-QFP	269-3104-ND	14.88	11.16	8.26	Z8S18020FEC1960
20	2-UARTS, 2DMA's	2	5	-40°C – 105°C	80-QFP	269-4300-ND♦	14.88	11.16	8.26	Z8S18020FEG1960
20	2-UARTS, 2DMA's	2	5	0°C – 70°C	80-QFP	269-4541-5-ND†♦	12.27	9.21	6.81	Z8S18020FSG
20	2-UARTS, 2DMA's	2	5	0°C – 70°C	64-Dip	269-4301-ND♦	12.27	9.21	6.81	Z8S18020PSG
20	2-UARTS, 2DMA's	2	5	0°C – 70°C	64-Dip	269-4302-ND♦	12.27	9.21	6.81	Z8S18020PSG1960
20	2-UARTS, 2DMA's	2	5	-40°C – 105°C	68-PLCC	269-4303-ND♦	14.88	11.16	8.26	Z8S18020VSG
20	2-UARTS, 2DMA's	2	5	-40°C – 105°C	68-PLCC	269-3110-ND	14.88	11.16	8.26	Z8S18020VEC1960
20	2-UARTS, 2DMA's	2	5	-40°C – 105°C	68-PLCC	269-4304-ND♦	14.88	11.16	8.26	Z8S18020VSG1960
20	2-UARTS, 2DMA's	2	5	0°C – 70°C	68-PLCC	269-4305-ND♦	12.27	9.21	6.81	Z8S18020VSG1960
20	2-UARTS, 2DMA's	2	5	0°C – 70°C	68-PLCC	269-3863-ND♦	12.27	9.21	6.81	Z8S18020VSG
33	2-UARTS, 2DMA's	2	5	-40°C – 105°C	68-PLCC	269-3115-ND	16.32	12.24	9.06	Z8S18033VEC
33	2-UARTS, 2DMA's	2	5	-40°C – 105°C	68-PLCC	269-4306-5-ND†♦	16.32	12.24	9.06	Z8S18033VSG
33	2-UARTS, 2DMA's	2	5	0°C – 70°C	68-PLCC	269-4307-ND♦	13.56	10.17	7.53	Z8S18033VSG

† Tube ♦ RoHS Compliant

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