

zilog Z8® Series Microcontrollers (Cont.)

C

Memory Size		I/O Lines	Oscillator Type External	Frequency Range Min./Max.	Supply Voltage Range	Operating Temperature (°C)	Package	Digi-Key Part No.	Price Each			Zilog Part No.
EPROM	RAM								1	25	100	
4K	237	24	XTAL/RC	DC-16MHz	3.5 - 5.5	0 - 70	28-DIP	269-3965-ND◆	6.60	4.95	3.67	Z86E3016PSG
			XTAL/RC	DC-16MHz	3.5 - 5.5	0 - 70	28-SOIC	269-4539-5-ND◆	6.60	4.95	3.67	Z86E3016SSG
			XTAL/RC	DC-16MHz	3.5 - 5.5	0 - 70	28-PLCC	269-1045-ND	6.60	4.95	3.67	Z86E3016VSC
			XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-DIP	269-1036-ND	6.84	5.13	3.80	Z86E3312PSC
			XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-DIP	269-3969-ND◆	6.84	5.13	3.80	Z86E3312PSG
			XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-SOIC	269-1103-ND	6.84	5.13	3.80	Z86E3312SSC
			XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-SOIC	269-3970-ND◆	6.84	5.13	3.80	Z86E3312SSG
			XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-PLCC	269-1104-ND	6.84	5.13	3.80	Z86E3312VSC
	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-PLCC	269-3971-ND◆	6.84	5.13	3.80	Z86E3312VSG		
	236	32	XTAL/RC	DC-16MHz	3.5 - 5.5	0 - 70	40-DIP	269-3975-ND◆	7.86	5.90	4.37	Z86E4016PSG
			XTAL/RC	DC-16MHz	3.5 - 5.5	0 - 70	44-PLCC	269-3976-ND◆	7.86	5.90	4.37	Z86E4016VSG
			XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	40-DIP	269-3977-ND◆	8.34	6.26	4.64	Z86E4312PSG
XTAL/RC			DC-12MHz	3.5 - 5.5	0 - 70	44-PLCC	269-3978-ND◆	8.34	6.26	4.64	Z86E4312PSG	
XTAL/RC			DC-12MHz	3.5 - 5.5	0 - 70	44-PQFP	269-1108-ND	10.17	7.63	4.95	Z86E4312FSC	
XTAL/RC			DC-16MHz	4.5 - 5.5	0 - 70	44-PQFP	269-1107-ND	9.57	7.18	4.42	Z86E4016FSC	
237	24	XTAL/RC	DC-16MHz	4.5 - 5.5	-40 - 105	28-DIP	269-3964-ND◆	7.26	5.45	4.04	Z86E3016PEG	
236	32	XTAL/RC	DC-16MHz	4.5 - 5.5	-40 - 105	40-DIP	269-1071-ND	8.64	6.48	4.80	Z86E4016PEG	
236	32	XTAL/RC	DC-16MHz	4.5 - 5.5	-40 - 105	40-DIP	269-3974-ND◆	8.64	6.48	4.80	Z86E4016PEG	
8K	237	24	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-SOIC	269-3940-ND◆	8.34	6.26	4.63	Z8673312SSG
	237	24	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-DIP	269-3939-ND◆	8.34	6.26	4.63	Z8673312PSG
	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	44-PLCC	269-1048-ND	9.66	7.25	5.37	Z8674312VSC
	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	44-PLCC	269-3942-ND◆	9.66	7.25	5.37	Z8674312VSG
	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	40-DIP	269-3941-ND◆	9.66	7.25	5.37	Z8674312PSG
16K	237	24	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-DIP	269-3972-ND◆	11.01	8.26	6.11	Z86E3412PSG
	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	40-DIP	269-3980-ND◆	12.36	9.27	6.87	Z86E4412PSG
	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	44-PLCC	269-3981-ND◆	12.36	9.27	6.87	Z86E4412VSG
	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	44-PQFP	269-1109-ND	14.82	11.12	6.59	Z86E4412FSC
	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	44-PQFP	269-3979-ND◆	14.82	11.12	6.59	Z86E4412FSG
	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	44-LQFP	269-4577-ND◆	12.72	9.54	7.06	Z86E4412ASG
	236	32	XTAL	DC-16MHz	4.5 - 5.5	0 - 70	44-PQFP	269-3982-ND◆	23.01	17.26	10.23	Z86E6116FSG
	236	32	XTAL	DC-16MHz	4.5 - 5.5	0 - 70	44-LQFP	269-4578-ND◆	19.74	14.81	10.96	Z86E6116ASG
32K	236	32	XTAL	DC-16MHz	4.5 - 5.5	0 - 70	44-PQFP	269-1111-ND	29.22	21.92	12.99	Z86E6316FSC
			XTAL	DC-16MHz	4.5 - 5.5	0 - 70	44-PQFP	269-3983-ND◆	29.22	21.92	12.99	Z86E6316FSG
			XTAL	DC-16MHz	4.5 - 5.5	0 - 70	44-LQFP	269-4579-ND◆	25.05	18.79	13.91	Z86E6316ASG

◆ RoHS Compliant

Description	Digi-Key Part No.	Price Each	Zilog Part No.
OTP Programming Adapters			
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

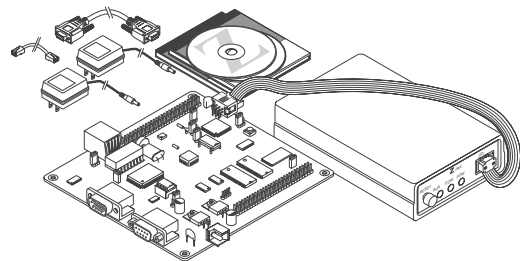
eZ80 - The Next Generation

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	100	Zilog Part No.
Webserver IC, Ext. Temperature	100-LQFP	269-3123-ND	21.18	15.89	11.76	EZ80190AZ050EC
Webserver IC, Ext. 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

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