

zilog eZ80AcclaimPlus!™ Flash Microcontrollers



Flash (KB)	SRAM (KB)	I/O Lines	DMA Controller	Speed (MHz)	16-bit Timers	EMAC	Other Features	IrDA	Operating Voltage	Temperature Range	Package	Digi-Key Part No.	Price Each			Zilog Part No.
													1	25	100	
256K	16K	32	Y	50	4	Y	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	144-LQFP	269-3867-ND	12.60	9.45	7.00	EZ80F91AZ050EG
256K	16K	32	Y	50	4	Y	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	144-LQFP	269-3868-ND	11.46	8.60	6.37	EZ80F91AZ050SG
256K	16K	32	Y	50	4	Y	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	144-BGA	269-3250-ND	30.87	23.16	13.72	EZ80F91NA050EG
256K	16K	32	Y	50	4	Y	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	144-BGA	269-3869-ND	14.01	10.51	7.79	EZ80F91NA050EG
256K	16K	32	Y	50	4	Y	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	144-BGA	269-3870-ND	12.75	9.57	7.09	EZ80F91NA050SG
256K	8K	32	Y	50	4	Y	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	144-LQFP	269-4563-ND	12.60	9.45	7.00	EZ80F91AZA50EG
256K	8K	32	Y	50	4	Y	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	144-LQFP	269-4564-ND	11.46	8.60	6.37	EZ80F91AZA50SG
256K	8K	32	Y	50	4	Y	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	144-BGA	269-4565-ND	14.01	10.51	7.79	EZ80F91NAA50EG
256K	8K	32	Y	50	4	Y	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	144-BGA	269-4566-ND	12.75	9.57	7.09	EZ80F91NAA50SG
128K	8K	24	—	20	6	—	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	100-LQFP	269-3871-ND	8.67	6.51	4.81	EZ80F92AZ020EG
128K	8K	24	—	20	6	—	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	100-LQFP	269-3872-ND	7.86	5.90	4.37	EZ80F92AZ020SG
64K	4K	24	—	20	6	—	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	100-LQFP	269-3201-ND	7.14	5.36	3.96	EZ80F93AZ020EG
64K	4K	24	—	20	6	—	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	100-LQFP	269-3873-ND	7.14	5.36	3.96	EZ80F93AZ020EG
64K	4K	24	—	20	6	—	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	100-LQFP	269-3164-ND	6.33	4.75	3.51	EZ80F93AZ020SC
64K	4K	24	—	20	6	—	2 UARTS, SPI, I ² C, PLL, RTC	Y	3.0 - 3.6	-40°C - 105°C	100-LQFP	269-3874-ND	6.33	4.75	3.51	EZ80F93AZ020SG
—	—	24	—	20	6	—	2 UARTS, SPI, I ² C	Y	3.0 - 3.6	-40°C - 105°C	100-LQFP	269-3875-ND	14.22	10.67	7.90	EZ80L92AZ020EG
—	—	24	—	20	6	—	2 UARTS, SPI, I ² C	Y	3.0 - 3.6	-40°C - 105°C	100-LQFP	269-3168-ND	12.36	9.27	6.87	EZ80L92AZ020SC
—	—	24	—	20	6	—	2 UARTS, SPI, I ² C	Y	3.0 - 3.6	-40°C - 105°C	100-LQFP	269-3876-ND	12.36	9.27	6.87	EZ80L92AZ020SG
—	—	24	—	50	6	—	2 UARTS, SPI, I ² C	Y	3.0 - 3.6	-40°C - 105°C	100-LQFP	269-3169-ND	15.63	11.73	8.69	EZ80L92AZ050EG
—	—	24	—	50	6	—	2 UARTS, SPI, I ² C	Y	3.0 - 3.6	-40°C - 105°C	100-LQFP	269-3877-ND	15.63	11.73	8.69	EZ80L92AZ050SG
—	—	24	—	50	6	—	2 UARTS, SPI, I ² C	Y	3.0 - 3.6	-40°C - 105°C	100-LQFP	269-3878-ND	13.62	10.22	7.56	EZ80L92AZ050SG

◆ RoHS Compliant

Emulators

Description	Digi-Key Part No.	Price Each	Zilog Part No.
Z8 Encore!®			
Z8 Encore! 64K Series 64-pin LQFP Emulator Kit	269-3395-ND	2995.00	Z8F6422AR00ZEM
Z8 Encore! 64K Series 68-pin PLCC Emulator Kit	269-3396-ND	2995.00	Z8F6422VS00ZEM
Z8 GP™			
Z8 GP ZGP323 In-Circuit Emulator and Development Platform	269-3743-ND	999.00	ZGP323ICE15ZEM
Z8 GP ZGP323 In-Circuit Emulator	269-3864-ND	499.00	ZGP323ICE02ZEM
Z8 Encore!® MC			
Z8 Encore! MC Z8FMC16100 Emulator	269-3830-ND	1999.01	Z8FMC161000ZEM
Crimzon™ — RoHS Compliant			
In-Circuit Emulator (ICE) for Crimzon Family Chips (ZCRMZNICE01ZEMG)	269-4685-ND	1125.00	ZCRMZNICE01ZEMG

Adapters

Description	Digi-Key Part No.	Price Each	Zilog Part No.
Z8 Encore!®			
Z8 Encore! 64K Series 44-pin LQFP ICE Adapter	269-3400-ND	299.00	Z8F64210100ZDA
Z8 Encore! 64K Series 40-pin PDIP ICE Adapter	269-3401-ND	299.00	Z8F64210100ZDP
Z8 Encore! 64K Series 44-pin PLCC ICE Adapter	269-3402-ND	299.00	Z8F64210100ZDV
Z8 Encore! 64K Series 64-pin LQFP ICE Adapter	269-3403-ND	299.00	Z8F64220100ZDA
Z8 Encore! 64K Series 68-pin PLCC ICE Adapter	269-3404-ND	299.00	Z8F64220100ZDV
Z8 Encore! 64K Series 80-pin QFP ICE Adapter	269-3405-ND	299.00	Z8F64230100ZDF
Z8 GP™			
Z8 GP ZGP323 20-pin SSOP Programming Adapter	269-3738-ND	90.00	ZGP32302010ZDH
Z8 GP ZGP323 20-pin SOIC Programming Adapter	269-3739-ND	90.00	ZGP32302010ZDS
Z8 GP ZGP323 28-pin SSOP Programming Adapter	269-3740-ND	90.00	ZGP32302810ZDH
Z8 GP ZGP323 28-pin SOIC Programming Adapter	269-3741-ND	90.00	ZGP32302810ZDS
Z8 GP ZGP323 48-pin SSOP Programming Adapter	269-3742-ND	90.00	ZGP32304810ZDH

Development Kits

Description	Digi-Key Part No.	Price Each	Zilog Part No.
eZ80Acclaim!™ — RoHS Compliant			
Development Kit for eZ80F91	269-4560-ND	99.95	EZ80F910200KITG
Development Kit for eZ80F91 Zdots SBC for Z80Acclaim	269-4561-ND 269-4671-ND	279.00 90.23	EZ80F910300ZCOG EZ80F917050SBCG
NEW! eZ80AcclaimPlus!™ NEW!			
eZ80AcclaimPlus! Wireless Zdots® SBC	269-4714-ND	60.00	EZ80F91WF01SBCG
eZ80AcclaimPlus! Wireless Zdots® SBC Development Kit	269-4715-ND	119.95	EZ80F91WF01ZCOG
Z8 Encore! XP®			
Z8 Encore! XP 4K Series, (8-pin) Development Kit	269-3638-ND	49.99	Z8F04A08100KITG
Z8 Encore! XP 4K Series, (8-pin) Development Kit	269-4628-ND	49.99	Z8F04A08100KITG
Z8 Encore! XP 4K Series, (28-pin) Development Kit	269-4629-ND	39.95	Z8F04A28100KITG
Z8 Encore! XP F08xA Series, (28-pin) Development Kit	269-4643-ND	39.95	Z8F08A28100KITG
Z8 Encore! XP F08xA Series, Development Kit	269-4672-ND	39.95	Z8F08A301282ZCOG
NEW! Encore! 32™ NEW!			
Encore! 32 Series Microcontroller Development Kit	269-4712-ND	496.25	Z32AN000100ZABG
Encore! 32 Series Development Kit with Signum Emulator	269-4713-ND	1200.00	Z32AN000100ZEMG
Z8 Encore!®			
Z8-Encore! Development Kit (8K/4K)	269-4630-ND	39.95	Z8F08200100KITG
Z8 Encore! Z8F642 MCU Development Kit	269-4540-ND	39.95	Z8F64200100KITG
Z8 Encore! Z8F642 MCU Development Kit (28-Pin Series)	269-4677-ND	74.95	Z8F168001282ZCOG
Z8 Encore! Z8F642 MCU Development Kit (44-Pin Series)	269-4678-ND	99.95	Z8F16800144ZCOG
Z8 Encore! Motor Control Development Kit	269-3639-ND	199.95	Z8FMC160100KITG
Z8 Encore! Motor Control Development Kit	269-4660-ND	199.95	Z8FMC160100KITG
Crimzon™			
Crimzon RC Development Platform	269-3398-ND	249.00	ZLP32300100KIT
Crimzon Development Board Kit for use as a target with ZCRMZNICE01ZEMG (ICE)	269-4683-ND	125.00	ZCRMZN00100KITG

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Programmer

Description	Digi-Key Part No.	Price Each	Zilog Part No.
Z8 GP™			
Z8 GP ZGP323 Ethernet Programming System	269-3390-ND	99.00	ZGP32300100ZPR

Modules

Description	Digi-Key Part No.	Price Each	Zilog Part No.
eZ80Acclaim!™			
Multipurpose MCU Module	269-3861-ND	180.00	EZ80F915050MODG
Flash Module for eZ80F92	269-3156-ND	126.15	EZ80F920020MOD
Ethernet Module for eZ80F92	269-3157-ND	162.00	EZ80F920120MOD
eZ80® — RoHS Compliant			
Websvrer-i Ethernet Module	269-4670-ND	137.70	EZ80L925048MODG
Mini Ethernet Module	269-3860-ND	105.00	EZ80F915005MODG
Mini Ethernet Module	269-4666-ND	46.67	EZ80F916005MODG
NEW! ePIR™ Motion Detection Zdots® NEW!			
Single Board Computer	269-4710-ND	6.00	ZEP1R0AAS01SBCG
Single Board Computer Development Kit	269-4711-ND	99.95	ZEP1R000101ZCOG

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Accessory Kits

Description	Digi-Key Part No.	Price Each	Zilog Part No.
eZ80Acclaim!™			
eZ80Acclaim! Serial Smart Cable Accessory Kit	269-3391-ND	35.00	EZ800000100ZAC
USB Smart Cable Accessory Kit	269-4539-ND	29.95	ZUSBS000100ZACG
Ethernet Smart Cable Accessory Kit	269-4661-ND	69.99	ZENETSC0100ZACG
Z8 Encore!® MC™ — RoHS Compliant			
Opto-isolated USB Smart Cable Accessory Kit	269-4664-ND	75.00	ZUSBOPTSC01ZACG
Crimzon™ — RoHS Compliant			
20-Pin Accessory Kit†	269-4684-ND	170.00	ZCRMZNICE01ZACG
40/48-Pin Accessory†	269-4686-ND	500.00	ZCRMZNICE02ZACG

◆ RoHS Compliant † For use with ZCRMZNICE01ZEMG (ICE)

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(B092) 695

zilog® Z8® Series Microcontrollers

Z8 MCU Family

OVERVIEW: Zilog MCU products are targeted for cost-sensitive, high-volume applications including consumer, automotive, security, and HVAC. One-time programmable (OTPs) for prototyping as well as volume production where time to market or code flexibility is critical. A variety of packaging options are available. The same on-chip peripherals are used across the MCU product line with the primary differences being the amount of ROM/RAM, number of I/O lines present, and packaging/temperature ranges available. This allows code written for one MCU device to be easily ported to another family member.

FEATURES: • **General-Purpose Register (GPR) File Architecture:** Every RAM register acts like an accumulator, speeding instruction execution and maximizing coding efficiency. Working register groups allow fast context switching. • **Flexible I/O:** I/O byte, nibble, and/or bit programmable as inputs or outputs. Outputs are software programmable as open-drain or push-pull on a port basis. Inputs are Schmitt-triggered with auto latches to hold unused inputs at a known voltage state. • **Analog Inputs:** Three input pins are software programmable as digital or analog inputs. When in the analog mode, two comparator inputs are provided with a common reference input. • **Timer/Counter (T/C):** The T/C consists of a programmable 6-bit prescaler and

8-bit downcounter, with maskable interrupt upon end-of-count. • **Interrupts:** There are six vectored interrupt sources with software-programmable enable and priority for each of the six sources. • **Watch-Dog Timer (WDT):** An internal WDT circuit is included as a fail-safe mechanism so that if software strays outside the bounds of normal operation, the WDT will timeout and reset the MCU. • **Auto Reset:** All family devices have internal Power-On Reset. • **Low-EMI Operation:** Mode is programmable via software or as a mask option. This new option provides for reduced radiated emission via clock and output drive circuit changes. • **Low-Power:** CMOS with two standby modes: STOP and HALT. • **Full Z8 Instruction Set:** Forty-eight basic instructions, supported by six addressing modes with the ability to operate on bits, nibbles, bytes, and words.

Accessory Kit:

The Z86CCP00ZAC is the accessory kit for the Z86CCP01ZEM. The kit contains all accessories to fully populate and operate all functions of the Z86CCP01ZEM.

KIT CONTENTS: • 28-Pin DIP ZIF Socket • 28-Pin Target Connector Cable • 40-Pin DIP ZIF Socket • 40-Pin Target Connector Cable • RS-232 Cable • Power Cable

C

Memory Size	EPROM	RAM	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.
										1	25	100	
0.5K	61	14	XTAL/RC	DC-8MHz	3.5 - 5.5	0 - 70	18-DIP	269-1012-ND	1.56	1.17	.86	Z86E0208PSC1925	
	61	14	XTAL/RC	DC-8MHz	3.5 - 5.5	0 - 70	18-DIP	269-3948-ND	1.56	1.17	.86	Z86E0208PSG1925	
	61	14	XTAL/RC	DC-8MHz	3.5 - 5.5	0 - 70	18-SOIC	269-1014-ND	1.56	1.17	.86	Z86E0208SSC1925	
	61	14	XTAL	DC-8MHz	3.5 - 5.5	0 - 70	20-SSOP	269-3069-ND	2.13	1.60	1.19	Z86E0208HSC1925	
	61	14	XTAL	DC-8MHz	3.5 - 5.5	0 - 70	20-SSOP	269-3946-ND	2.13	1.60	1.19	Z86E0208HSG1925	
	61	14	XTAL/RC	DC-8MHz	4.5 - 5.5	-40 - 105	18-DIP	269-3947-ND	2.13	1.60	1.19	Z86E0208PEG1925	
	61	14	XTAL/RC	DC-8MHz	4.5 - 5.5	-40 - 105	18-SOIC	269-3949-ND	2.13	1.60	1.19	Z86E0208SEG1925	
	61	14	XTAL	DC-8MHz	4.5 - 5.5	-40 - 105	20-SSOP	269-3068-ND	2.34	1.76	1.30	Z86E0208HEC1925	
	61	14	XTAL	DC-8MHz	4.5 - 5.5	-40 - 105	20-SSOP	269-3945-ND	2.34	1.76	1.30	Z86E0208HEG1925	
	1K	125	14	XTAL/RC	DC-12MHz	4.5 - 5.5	0 - 70	18-DIP	269-1096-ND	3.21	2.41	1.79	Z86E0412HSC1866
125		14	XTAL	DC-12MHz	4.5 - 5.5	0 - 70	20-SSOP	269-3076-ND	3.21	2.41	1.79	Z86E0412HSC1866	
125		14	XTAL	DC-12MHz	4.5 - 5.5	0 - 70	20-SSOP	269-3952-ND	3.21	2.41	1.79	Z86E0412HSG1866	
125		14	XTAL/RC	DC-12MHz	4.5 - 5.5	0 - 70	20-SSOP	269-3077-ND	3.21	2.41	1.79	Z86E0412HSC1903	
125		14	XTAL/RC	DC-12MHz	4.5 - 5.5	0 - 70	20-SSOP	269-3953-ND	3.21	2.41	1.79	Z86E0412HSG1903	
125		14	XTAL	DC-12MHz	4.5 - 5.5	-40 - 105	18-DIP	269-1093-ND	3.36	2.52	1.86	Z86E0412PEC	
125		14	XTAL	DC-12MHz	4.5 - 5.5	-40 - 105	18-DIP	269-3954-ND	3.36	2.52	1.86	Z86E0412PEG	
125		14	XTAL	DC-12MHz	4.5 - 5.5	-40 - 105	18-SOIC	269-1097-ND	3.36	2.52	1.86	Z86E0412SEC	
125		14	XTAL	DC-12MHz	4.5 - 5.5	-40 - 105	18-SOIC	269-3955-ND	3.36	2.52	1.86	Z86E0412SEG	
125		14	XTAL	DC-12MHz	4.5 - 5.5	-40 - 105	20-SSOP	269-3074-ND	3.54	2.66	1.97	Z86E0412HEC1866	
2K	125	14	XTAL	DC-12MHz	4.5 - 5.5	-40 - 105	20-SSOP	269-3950-ND	3.54	2.66	1.97	Z86E0412HEG1866	
	125	14	XTAL/RC	DC-12MHz	4.5 - 5.5	-40 - 105	20-SSOP	269-3075-ND	3.54	2.66	1.97	Z86E0412HEC1903	
	125	14	XTAL/RC	DC-12MHz	4.5 - 5.5	-40 - 105	20-SSOP	269-3951-ND	3.54	2.66	1.97	Z86E0412HSG1903	
	125	14	XTAL	DC-12MHz	4.5 - 5.5	0 - 70	18-DIP	269-3961-ND	2.70	2.03	1.50	Z86E0812PSC1866	
	125	14	XTAL/RC	DC-12MHz	4.5 - 5.5	0 - 70	18-DIP	269-3962-ND	2.70	2.03	1.50	Z86E0812PSG1903	
	125	14	XTAL/RC	DC-12MHz	4.5 - 5.5	0 - 70	20-SSOP	269-3089-ND	3.90	2.93	2.16	Z86E0812HSC1903	
	125	14	XTAL/RC	DC-12MHz	4.5 - 5.5	0 - 70	20-SSOP	269-3959-ND	3.90	2.93	2.16	Z86E0812HSG1903	
	125	14	XTAL/RC	DC-16MHz	3.5 - 5.5	0 - 70	28-SOIC	269-1055-ND	5.46	4.10	3.04	Z86E3116SSC	
	125	14	XTAL/RC	DC-16MHz	3.5 - 5.5	0 - 70	28-SOIC	269-3968-ND	5.46	4.10	3.04	Z86E3116SSG	
	125	14	XTAL	DC-12MHz	4.5 - 5.5	-40 - 105	18-DIP	269-3960-ND	4.08	3.06	2.27	Z86E0812PEG	
4K	125	14	XTAL	DC-12MHz	4.5 - 5.5	-40 - 105	18-SOIC	269-3963-ND	2.94	2.21	1.64	Z86E0812SEG	
	125	14	XTAL	DC-12MHz	4.5 - 5.5	-40 - 105	20-SSOP	269-3086-ND	4.29	3.22	2.39	Z86E0812HEC1866	
	125	14	XTAL	DC-12MHz	4.5 - 5.5	-40 - 105	20-SSOP	269-3957-ND	4.29	3.22	2.39	Z86E0812HEG1866	
	125	14	XTAL/RC	DC-12MHz	4.5 - 5.5	-40 - 105	20-SSOP	269-3087-ND	4.29	3.22	2.39	Z86E0812HEC1903	
	125	14	XTAL/RC	DC-12MHz	4.5 - 5.5	-40 - 105	20-SSOP	269-3958-ND	4.29	3.22	2.39	Z86E0812HEG1903	
	125	14	XTAL/RC	DC-12MHz	4.5 - 5.5	-40 - 105	18-SOIC	269-4699-5-ND	2.94	2.21	1.64	Z86E0812SEG1903	
	125	14	XTAL/RC	DC-16MHz	4.5 - 5.5	-40 - 105	28-DIP	269-3966-ND	6.06	4.55	3.36	Z86E3116PEG	
	125	14	XTAL/RC	DC-16MHz	4.5 - 5.5	-40 - 105	28-SOIC	269-1054-ND	6.06	4.55	3.36	Z86E3116SEC	
	125	14	XTAL/RC	DC-16MHz	4.5 - 5.5	-40 - 105	28-SOIC	269-3967-ND	6.06	4.55	3.36	Z86E3116SEG	
	8K	237	24	XTAL/RC	DC-16MHz	3.5 - 5.5	0 - 70	28-DIP	269-3965-ND	6.60	4.95	3.67	Z86E3016PSG
237		24	XTAL/RC	DC-16MHz	3.5 - 5.5	0 - 70	28-SOIC	269-4539-5-ND	6.60	4.95	3.67	Z86E3016SSG	
237		24	XTAL/RC	DC-16MHz	3.5 - 5.5	0 - 70	28-PLCC	269-1045-ND	6.60	4.95	3.67	Z86E3016VSC	
237		24	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-DIP	269-1036-ND	6.84	5.13	3.80	Z86E3312PSC	
237		24	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-DIP	269-3969-ND	6.84	5.13	3.80	Z86E3312PSG	
237		24	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-SOIC	269-1103-ND	6.84	5.13	3.80	Z86E3312SSC	
237		24	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-SOIC	269-3970-ND	6.84	5.13	3.80	Z86E3312SSG	
237		24	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-PLCC	269-1104-ND	6.84	5.13	3.80	Z86E3312VSC	
237		24	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	Z86E4016PSC	
16K	236	32	XTAL/RC	DC-16MHz	3.5 - 5.5	0 - 70	44-PLCC	269-3976-ND	7.86	5.90	4.37	Z86E4016PSG	
	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	40-DIP	269-3977-ND	8.34	6.26	4.64	Z86E4312PSC	
	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	44-PLCC	269-3978-ND	8.34	6.26	4.64	Z86E4312PSG	
	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	44-PQFP	269-1108-ND	10.17	7.63	4.95	Z86E4312VSC	
	237	21	XTAL/RC	DC-16MHz	3.5 - 5.5	-40 - 105	28-SOIC	269-4704-5-ND	9.00	6.75	5.00	Z86E3316SEG	
	237	24	XTAL/RC	DC-16MHz	4.5 - 5.5	-40 - 105	28-DIP	269-3964-ND	7.26	5.45	4.04	Z86E3016PEG	
	237	24	XTAL/RC	DC-16MHz	4.5 - 5.5	-40 - 105	28-SOIC	269-4700-5-ND	7.26	5.45	4.04	Z86E3016SEG	
	236	32	XTAL/RC	DC-16MHz	4.5 - 5.5	-40 - 105	40-DIP	269-1071-ND	8.64	6.48	4.80	Z86E4016PEC	
	236	32	XTAL/RC	DC-16MHz	4.5 - 5.5	-40 - 105	40-DIP	269-3974-ND	8.64	6.48	4.80	Z86E4016PEG	
	236	32	XTAL/RC	DC-16MHz	4.5 - 5.5	-40 - 105	44-PLCC	269-4702-5-ND	8.64	6.48	4.80	Z86E4016VEG	
32K	237	24	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-SOIC	269-3940-ND	8.34	6.26	4.63	Z86E3312SSG	
	237	24	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-DIP	269-3939-ND	8.34	6.26	4.63	Z86E3312PSC	
	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	44-PLCC	269-1048-ND	9.66	7.25	5.37	Z86E4312VSC	
	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	44-PLCC	269-3942-ND	9.66	7.25	5.37	Z86E4312VSG	
	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	40-DIP	269-3941-ND	9.66	7.25	5.37	Z86E4312PSC	
	237	24	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-DIP	269-3972-ND	11.01	8.26	6.11	Z86E3412PSG	
	237	24	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	28-SOIC	269-4701-5-ND	11.01	8.26	6.11	Z86E3412SSG	
	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	Z86E4412PSC	
32K	236	32	XTAL/RC	DC-12MHz	3.5 - 5.5	0 - 70	44-PQFP	269-3979-ND	14.82	11.12	6.59	Z86E4412SSG	
	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	Z86E6116PSC	
	236	32	XTAL	DC-16MHz	4.5 - 5.5	0 - 70	44-LQFP	269-4578-ND	19.74	14.81	10.96	Z86E6116ASG	
	236	32	XTAL	DC-16MHz	4.5 - 5.5	0 - 70	44-PQFP	269-1111-ND	29.22	21.92	12.99	Z86E6316PSC	
	236	32	XTAL	DC-16MHz	4.5 - 5.5	0 - 70	44-PQFP	269-3983-ND	29.22	21.92	12.99	Z86E6316SSG	
236	32	XTAL	DC-16MHz	4.5 - 5.5	0 - 70	44-LQFP	269-4579-ND	25.05	18.79	13.91	Z86E6316ASG		
236	32	XTAL	DC-16MHz	4.5 - 5.5	0 - 70	44-PLCC	269-4703-5-ND	25.05	18.79	13.91	Z86E6316VSG		

† Tube • RoHS Compliant

OTP Programming Adapters

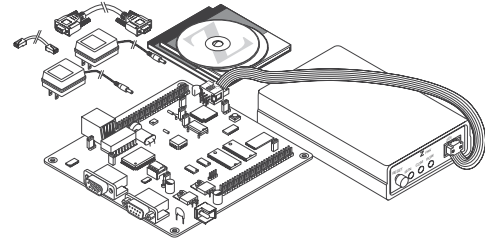
Description	Digi-Key Part No.	Price Each	Zilog Part No.
18 Pin SOIC Adapter			

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.	Price Each			Zilog Part No.
			1	25	100	
Webserver IC, Extended Temperature	100-LQFP	269-3123-ND	21.18	15.89	11.76	EZ80190AZ050EC
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.

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.
Eprom	Ram										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	Z8E0010PSC
512	32	13	XTAL/LC	DC - 10MHz	3.5 - 5.5	0 - 70	18-DIP	D	D	269-3984-ND	1.80	1.35	1.00	Z8E0010PSG
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
1K	64	13	XTAL/LC	DC - 10MHz	3.5 - 5.5	0 - 70	18-DIP	▲	D, 2	269-3986-ND	2.28	1.71	1.26	Z8E00110PSG
1K	64	13	XTAL/LC	DC - 10MHz	3.5 - 5.5	0 - 70	18-SOIC	▲	D, 2	269-1123-ND	2.28	1.71	1.26	Z8E00110SSC
1K	64	13	XTAL/LC	DC - 10MHz	3.5 - 5.5	0 - 70	18-SOIC	▲	D, 2	269-3987-ND	2.28	1.71	1.26	Z8E00110SSG
1K	64	13	XTAL/LC	DC - 10MHz	4.5 - 5.5	-40 - 105	18-DIP	▲	D	269-3985-ND	2.49	1.87	1.39	Z8E00110PEG
Z8PE002 Series														
512	64	14	XTAL/LC	DC - 10MHz	3.5 - 5.5	0 - 70	18-DIP	D	D	269-4290-ND	1.92	1.44	1.07	Z8PE002PZ010SG
512	64	14	XTAL/LC	DC - 10MHz	3.0 - 5.5	0 - 70	20-SSOP	▲	D, 17	269-1132-ND	2.10	1.58	1.16	Z8PE002HZ010SC
512	64	14	XTAL/LC	DC - 10MHz	3.5 - 5.5	0 - 70	20-SSOP	▲	D, 17	269-4289-ND	2.10	1.58	1.16	Z8PE002HZ010SG
512	64	14	XTAL/LC	DC - 10MHz	4.5 - 5.5	-40 - 105	20-SSOP	▲	D, 17	269-1135-ND	2.28	1.71	1.27	Z8PE002HZ010EC
512	64	14	XTAL/LC	DC - 10MHz	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
1K	64	14	XTAL/LC	DC - 10MHz	3.0 - 5.5	0 - 70	18-DIP	D	D	269-4293-ND	2.67	2.01	1.49	Z8PE003PZ010SG
1K	64	14	XTAL/LC	DC - 10MHz	3.0 - 5.5	0 - 70	18-SOIC	▲	D, 2	269-1137-ND	2.67	2.01	1.49	Z8PE003SZ010SC
1K	64	14	XTAL/LC	DC - 10MHz	3.0 - 5.5	0 - 70	18-SOIC	▲	D, 2	269-4295-ND	2.67	2.01	1.49	Z8PE003SZ010SG
1K	64	14	XTAL/LC	DC - 10MHz	3.0 - 5.5	0 - 70	20-SSOP	▲	D, 17	269-1138-ND	2.82	2.12	1.57	Z8PE003HZ010SC
1K	64	14	XTAL/LC	DC - 10MHz	3.0 - 5.5	0 - 70	20-SSOP	▲	D, 17	269-4291-ND	2.82	2.12	1.57	Z8PE003HZ010SG
1K	64	14	XTAL/LC	DC - 10MHz	4.5 - 5.5	-40 - 105	18-SOIC	▲	D, 2	269-1140-ND	2.94	2.21	1.63	Z8PE003SZ010EC
1K	64	14	XTAL/LC	DC - 10MHz	4.5 - 5.5	-40 - 105	18-SOIC	▲	D, 2	269-4294-ND	2.94	2.21	1.63	Z8PE003SZ010EG

Key	Description	Digi-Key Part No.	Price Each	Zilog Part No.
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.

Turnkey Universal Remote Control Kit

The Crimson 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.....	\$159.00
269-3385-ND	European, 6-Function, Learning.....	\$160.00

◆ 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

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