



Zilog Microcontrollers



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ZILOG Z8 ENCORE!™ FLASH MCU DEVELOPMENT KIT

The Z8 Encore! Microcontroller (MCU) Development Kit is a general-purpose platform that allows design engineers to evaluate the capabilities and operation of the Z8 Encore! family of microcontrollers and provides tools to shorten the development cycle. Included with the Development Kit is a free full-version ANSI C-Compiler and a Target Interface Module board that interfaces with the on-chip debugger converting a one-wire interface to a two-wire RS-232-like interface. All necessary hardware, software tools, and technical documentation are included, to provide a complete solution at minimal cost.

Features:

Hardware:

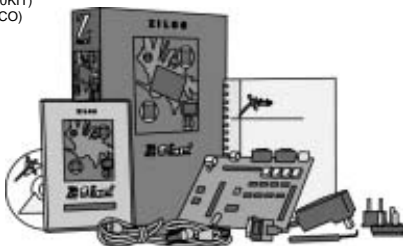
- Evaluation Board, Z8 Encore!
- Smart Cable – DB9 to six-pin male (Z8F08200100KIT)
- Target Module interface board (Z8ENCORE000ZCO)
- RS-232 DB9 Serial Cable
- 9VDC Universal Power Supply

Software:

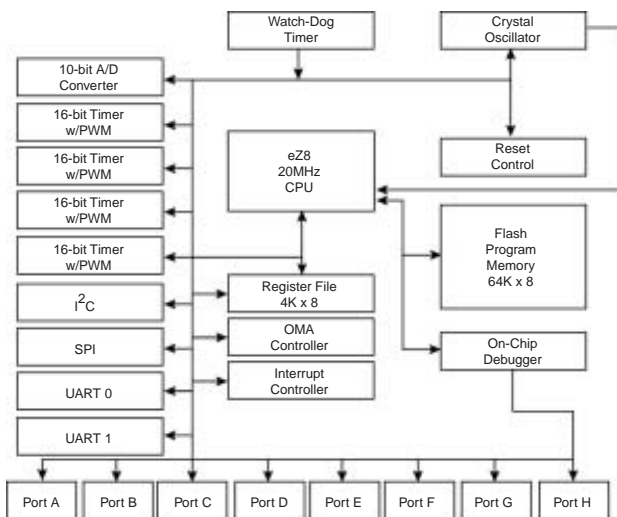
- ZDS II - Z8 Encore! IDE with ANSI C-Compiler
- Sample code
- Device Driver software

CD-ROM containing:

- ZDS II Quick Start Guide
- Development Kit User Manual
- ZDS II - IDE User Manual
- EZ8 CPU User Manual
- Product Specifications
- Product Briefs
- Application Notes
- Flyer
- Product Linecard



The New Z8 Encore!™ MCU Block Diagram



MOUSER STOCK NO.		Description	Price Each
Mfr.	Mfr. Part No.		
692	Z8F08200100KIT	ENCORE! KIT (4K-8K Flash)	39.95
692	Z8ENCORE000ZCO	ENCORE! KIT (16K-64K Flash)	49.95

Features:	Benefits
20MHz CPU Operation	Faster execution of CPU instructions at up to 10 MIPS
Up to 12-Channel, 10-Bit A/D Converter	Precise measurement of analog signals
3-Channel DMA (16-64KB Parts Only)	Increases performance by allowing direct peripheral-to-memory swaps
Up to 64KB of Flash	Allows for code upgrades anytime during development (even in final application)
Up to 4KB SRAM	Extends data space to accommodate large stack and data tables
SPI and I2C Ports	Supports both universal serial communication protocols with ability to operate simultaneously
Up to Two 9-Bit UARTs	Enables full featured serial communications including RS-485 and IrDA Encoder/Decoder interface
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Up to 24 Interrupts	Hardware interrupts increase CPU's bandwidth
Up to Four 16-Bit Timers with PWMs	Multi-mode timers allow for precise measurement of system events
Single-pin, On-Chip Debugger	Eliminates need for external debug hardware

ZILOG Z8 ENCORE!™ MICROCONTROLLERS

• Each Z8 Encore! Microcontroller contains the following:
Watchdog Timers, SPI Port, I2C Port.

◆ Surface Mount Device

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.		Package	Flash (Bytes)	RAM (Bytes)	Core Speed (MHz)	I/O Lines	Interrupts	16-Bit Timers	PWM's	10-Bit A/D Channels	DMA Controller	UARTs	Voltage (V)	Temp	Price Each		
Mfr.	Mfr. Part Number														1	25	100
◆	692 - Z8F0411HH020SC	SSOP-20	4K	1K	20	11	16	2	2	-	-	1	2.7 to 3.6	0 to +70	3.03	2.72	2.12
◆	692 - Z8F0412S020SC	SSOP-20	4K	1K	20	11	16	2	2	-	-	1	2.7 to 3.6	0 to +70	3.78	3.40	2.64
◆	692 - Z8F0412SJ020SC	SOIC-28	4K	1K	20	19	19	2	2	-	-	1	2.7 to 3.6	0 to +70	3.53	3.17	2.47
◆	692 - Z8F0422SJ020SC	SOIC-28	4K	1K	20	19	19	2	2	-	-	1	2.7 to 3.6	0 to +70	4.03	3.62	2.82
◆	692 - Z8F0811HH020SC	SSOP-20	8K	1K	20	11	16	2	2	-	-	1	2.7 to 3.6	0 to +70	4.53	4.07	3.17
◆	692 - Z8F0821HH020SC	SSOP-20	8K	1K	20	11	16	2	2	-	-	1	2.7 to 3.6	0 to +70	5.28	4.75	3.69
◆	692 - Z8F0812SJ020SC	SOIC-28	8K	1K	20	19	19	2	2	-	-	1	2.7 to 3.6	0 to +70	5.03	4.52	3.52
◆	692 - Z8F0822SJ020SC	SOIC-28	8K	1K	20	19	19	2	2	-	-	1	2.7 to 3.6	0 to +70	5.53	4.97	3.87
◆	692 - Z8F1601PM020SC	PDIP-40	16K	2K	20	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to +70	6.15	4.73	4.10
◆	692 - Z8F1601AN020SC	LQFP-44	16K	2K	20	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to +70	6.11	4.70	4.08
◆	692 - Z8F1601VN020SC	PLCC-44	16K	2K	20	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to +70	6.15	4.73	4.10
◆	692 - Z8F1602AR020SC	LQFP-64	16K	2K	20	46	24	4	4	12	Yes	2	3.0 to 3.6	0 to +70	6.39	4.92	4.26
◆	692 - Z8F1602VSO20SC	PLCC-68	16K	2K	20	46	24	4	4	12	Yes	2	3.0 to 3.6	0 to +70	6.45	4.96	4.30
◆	692 - Z8F2401PM020SC	PDIP-40	24K	2K	20	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to +70	7.10	5.46	4.73
◆	692 - Z8F2401AN020SC	LQFP-44	24K	2K	20	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to +70	7.06	5.43	4.71
◆	692 - Z8F2401VN020SC	PLCC-44	24K	2K	20	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to +70	7.10	5.46	4.73
◆	692 - Z8F2402AR020SC	LQFP-64	24K	2K	20	46	24	4	4	12	Yes	2	3.0 to 3.6	0 to +70	7.34	5.65	4.89
◆	692 - Z8F2402VSO20SC	PLCC-68	24K	2K	20	46	24	4	4	12	Yes	2	3.0 to 3.6	0 to +70	7.40	5.69	4.93
◆	692 - Z8F3201PM020SC	PDIP-40	32K	2K	20	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to +70	7.57	5.83	5.05
◆	692 - Z8F3201AN020SC	LQFP-44	32K	2K	20	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to +70	7.53	5.80	5.02
◆	692 - Z8F3201VN020SC	PLCC-44	32K	2K	20	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to +70	7.57	5.83	5.05
◆	692 - Z8F3202AR020SC	LQFP-64	32K	2K	20	46	24	4	4	12	Yes	2	3.0 to 3.6	0 to +70	7.81	6.01	5.21
◆	692 - Z8F3202VSO20SC	PLCC-68	32K	2K	20	46	24	4	4	12	Yes	2	3.0 to 3.6	0 to +70	7.87	6.06	5.25
◆	692 - Z8F4801PM020SC	PDIP-40	48K	4K	20	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to +70	8.52	6.56	5.68
◆	692 - Z8F4801AN020SC	LQFP-44	48K	4K	20	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to +70	8.48	6.52	5.65
◆	692 - Z8F4801VN020SC	PLCC-44	48K	4K	20	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to +70	8.52	6.56	5.68
◆	692 - Z8F4802AR020SC	LQFP-64	48K	4K	20	46	24	4	4	12	Yes	2	3.0 to 3.6	0 to +70	8.76	6.74	5.84
◆	692 - Z8F4802VSO20SC	PLCC-68	48K	4K	20	46	24	4	4	12	Yes	2	3.0 to 3.6	0 to +70	8.82	6.79	5.88
◆	692 - Z8F4803FT020SC	QFP-80	48K	4K	20	60	24	4	4	12	Yes	2	3.0 to 3.6	0 to +70	9.02	6.94	6.01
◆	692 - Z8F6401AN020SC	LQFP-44	64K	4K	20	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to +70	9.43	7.25	6.29
◆	692 - Z8F6401VN020SC	PLCC-44	64K	4K	20	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to +70	9.47	7.28	6.31
◆	692 - Z8F6402AR020SC	LQFP-64	64K	4K	20	46	24	4	4	12	Yes	2	3.0 to 3.6	0 to +70	9.71	7.47	6.47
◆	692 - Z8F6402VSO20SC	PLCC-68	64K	4K	20	46	24	4	4	12	Yes	2	3.0 to 3.6	0 to +70	9.77	7.51	6.51
◆	692 - Z8F6403FT020SC	QFP-80	64K	4K	20	60	24	4	4	12	Yes	2	3.0 to 3.6	0 to +70	9.97	7.67	6.65

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