

# ZILOG Microcontrollers



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MCU / MPU / DSP

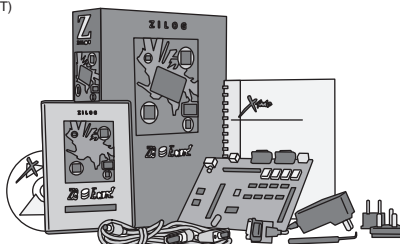
Zilog

## ZILOG Z8 ENCORE!™ FLASH MCU DEVELOPMENT KIT

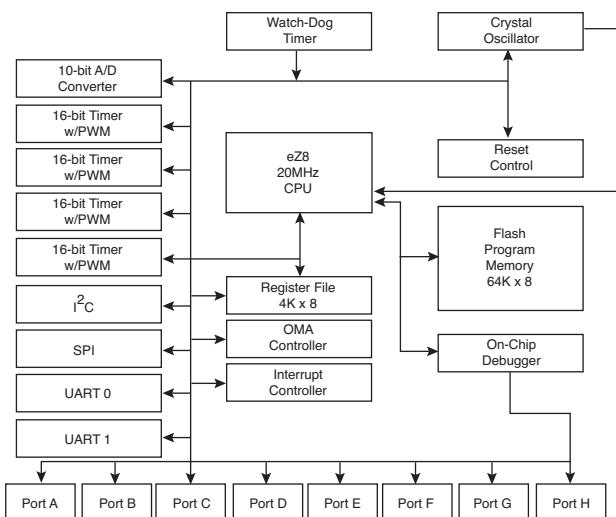
The Z8 Encore! Microcontroller (MCU) Development Kit is a general-purpose platform that allows design engineers to evaluate the capabilities and operation of the Z8 Encore! family of microcontrollers and provides tools to shorten the development cycle. Included with the Development Kit is a free full-version 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)
  - 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 contains:
- 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 Number		
692	Z8F08200100KIT	ENCORE! KIT (4K-8K Flash) In Circuit Emulator	39.95
692	Z8F642ICE00ZEM		2795.00

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
Up to Two 9-Bit UARTs	Enables full featured serial communications including RS-485 and IrDA Encoder/Decoder interface
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

◆ Surface Mount Device

- Each Z8 Encore! Microcontroller contains the following: Watchdog Timers, SPI Port, I2C Port.
- Core Speed: 20 MHz

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.		Package	Flash (Bytes)	RAM (Bytes)	I/O Lines	Interrupts	16-Bit Timers	PWM's	10-Bit A/D Channels	DMA Controller	UARTs	Voltage (V)	Temperature (°C)	Price Each		
Mfr.	Mfr. Part Number													1	25	100
◆	692—Z8F0411HH020SG	SSOP-20	4K	1K	11	16	2	2	-	-	1	2.7 to 3.6	0 to 70	2.05	1.92	1.71
◆	692—Z8F0421HH020SG	SSOP-20	4K	1K	11	16	2	2	2	-	1	2.7 to 3.6	0 to 70	2.32	2.12	1.93
◆	692—Z8F0412SJ020SG	SOIC-28	4K	1K	19	19	2	2	-	-	1	2.7 to 3.6	0 to 70	2.17	1.99	1.81
◆	692—Z8F0422SJ020SG	SOIC-28	4K	1K	19	19	2	2	5	-	1	2.7 to 3.6	0 to 70	2.40	2.19	2.00
◆	692—Z8F0411HH020EG	SSOP-20	4K	1K	11	16	2	2	-	-	1	2.7 to 3.6	-40 to 105	2.27	2.06	1.89
◆	692—Z8F0411PH020EG	PDIP-20	4K	1K	11	16	2	2	-	-	1	2.7 to 3.6	-40 to 105	2.27	2.06	1.89
◆	692—Z8F0411PH020SG	PDIP-20	4K	1K	11	16	2	2	-	-	1	2.7 to 3.6	0 to 70	2.05	1.92	1.71
◆	692—Z8F0412PJ020EG	PDIP-28	4K	1K	19	19	2	2	-	-	1	2.7 to 3.6	-40 to 105	2.75	2.50	2.29
◆	692—Z8F0412PJ020SG	PDIP-28	4K	1K	19	19	2	2	-	-	1	2.7 to 3.6	0 to 70	2.51	2.28	2.09
◆	692—Z8F0412SJ020EG	SOIC-28	4K	1K	19	19	2	2	-	-	1	2.7 to 3.6	-40 to 105	2.40	2.19	2.00
◆	692—Z8F0421HH020EG	SSOP-20	4K	1K	11	16	2	2	-	-	1	2.7 to 3.6	-40 to 105	2.56	2.33	2.13
◆	692—Z8F0421PH020EG	PDIP-20	4K	1K	11	16	2	2	2	-	1	2.7 to 3.6	-40 to 105	2.56	2.33	2.13
◆	692—Z8F0421PH020SG	PDIP-20	4K	1K	11	16	2	2	2	-	1	2.7 to 3.6	0 to 70	2.32	2.12	1.93
◆	692—Z8F0422SJ020EG	SOIC-28	4K	1K	19	19	2	2	5	-	1	2.7 to 3.6	-40 to 105	2.64	2.41	2.20
◆	692—Z8F0811HH020SG	SSOP-20	8K	1K	11	16	2	2	-	-	1	2.7 to 3.6	0 to 70	2.15	1.95	1.79
◆	692—Z8F0821HH020SG	SSOP-20	8K	1K	11	16	2	2	2	-	1	2.7 to 3.6	0 to 70	2.40	2.19	2.00
◆	692—Z8F0812SJ020SG	SOIC-28	8K	1K	19	19	2	2	-	-	1	2.7 to 3.6	0 to 70	2.32	2.12	1.93
◆	692—Z8F0822SJ020SG	SOIC-28	8K	1K	19	19	2	2	5	-	1	2.7 to 3.6	0 to 70	2.48	2.26	2.07
◆	692—Z8F0811HH020EG	SSOP-20	8K	1K	11	16	2	2	-	-	1	2.7 to 3.6	-40 to 105	2.36	2.15	1.97
◆	692—Z8F0811PH020EG	PDIP-20	8K	1K	11	16	2	2	-	-	1	2.7 to 3.6	-40 to 105	2.36	2.15	1.97
◆	692—Z8F0811PH020SG	PDIP-20	8K	1K	11	16	2	2	-	-	1	2.7 to 3.6	0 to 70	2.15	1.95	1.79
◆	692—Z8F0812PJ020EG	PDIP-28	8K	1K	19	19	2	2	-	-	1	2.7 to 3.6	-40 to 105	2.76	2.52	2.30
◆	692—Z8F0812PJ020SG	PDIP-28	8K	1K	19	19	2	2	-	-	1	2.7 to 3.6	0 to 70	2.76	2.52	2.30
◆	692—Z8F0812SJ020EG	SOIC-28	8K	1K	19	19	2	2	-	-	1	2.7 to 3.6	-40 to 105	2.56	2.33	2.13
◆	692—Z8F0821HH020EG	SSOP-20	8K	1K	11	16	2	2	2	-	1	2.7 to 3.6	-40 to 105	2.64	2.41	2.20
◆	692—Z8F0821PH020EG	PDIP-20	8K	1K	11	16	2	2	2	-	1	2.7 to 3.6	-40 to 105	2.64	2.41	2.20
◆	692—Z8F0821PH020SG	PDIP-20	8K	1K	11	16	2	2	2	-	1	2.7 to 3.6	0 to 70	2.40	2.19	2.00
◆	692—Z8F0822PJ020EG	PDIP-28	8K	1K	19	19	2	2	5	-	1	2.7 to 3.6	-40 to 105	2.95	2.70	2.46
◆	692—Z8F0822PJ020SG	PDIP-28	8K	1K	19	19	2	2	5	-	1	2.7 to 3.6	0 to 70	2.68	2.44	2.23
◆	692—Z8F0822SJ020EG	SOIC-28	8K	1K	19	19	2	2	5	-	1	2.7 to 3.6	-40 to 105	2.75	2.50	2.29
◆	692—Z8F1621AN020EG	LQFP-44	16K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40 to 105	3.97	3.63	3.31
◆	692—Z8F1621AN020SG	LQFP-44	16K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to 70	3.59	3.26	2.99
◆	692—Z8F1621PM020EG	PDIP-40	16K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40 to 105	4.15	3.79	3.46
◆	692—Z8F1621PM020SG	PDIP-40	16K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	0 to 70	3.76	3.43	3.13

