

ZILOG Encore!™ XP and Motor Control Microcontrollers *zilog*

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Z16FMC SERIES FLASH MICROCONTROLLER

Zilog's Z16FMC Series MCU, a part of the Flash Motor Control family of devices, is a powerful 16-bit CISC microcontroller that outperforms most RISC microcontrollers in its class. The Z16FMC boasts a unique architecture that provides the power, punch and performance of a 32-bit micro with the code, current efficiency and cost of a 16-bit. The Z16FMC features Zilog's ZNEO® CPU, which boasts a highly-optimized instruction set that achieves high performance per clock cycle with less code space and lower overhead than competing architectures. Optimized for motor control applications, these devices are designed for the control of multiphase AC and DC variable-speed motors.

Features:

- 16-bit optimized Single-Cycle CISC core
- Up to 128KB of in-circuit programmable Flash memory
- Flexible communication interface including a 9-bit UART with LIN & IrDA, I2C, ESPI
- 12-Channel, 10-bit ADC with a 2.1µs conversion time
- Highly integrated Digital/Analog peripherals
 - Operational Amplifier
 - Analog Comparator
 - Internal Precision Oscillator
 - 4-Channel DMA Controller
 - 12-bit PWM module with three complementary pairs or six independent PWM outputs



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	Flash (KB)	SRAM (KB)	GPIO	Interface Type	10-bit A/D Channels	Interrupts	Temperature Range (°C)	Price Each		
Mfr.	Mfr. Part No.									1	25	100
	692—Z16FMC28AG20EG	LQFP-64	128	4	46	LIN and IrDA/I2C/SPI/UART	12	24	-40°C to 105°C	8.37	7.09	4.49

Z16FMC SERIES MOTOR CONTROL DEVELOPMENT KIT

The Z16FMC Series Motor Control Development Kit features a Motor Control Modular Development System (MC MDS) daughter board mounted on a 3-Phase Motor Control Application Board. The MC MDS board consists of a 64LQFP Z16FMC chip and a DBG connector to connect the kit to a host development PC via the USB Smart Cable. The 3-Phase Motor Control Application Board provides spade lug connectors for the 3-phase motor and fused spade lug connectors for an adjustable 24V DC, 3A workbench power source.



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MOUSER STOCK NO.		Description	Price Each
Mfr.	Mfr. Part No.		
	692—Z16FMC28200KITG	Z16Motor Control Development Kit	200.00

ZILOG Z8 ENCORE!™ XP MICROCONTROLLERS

Specifications:

- Each Z8 Encore! Microcontroller contains the following:
 - Watchdog Timers, Analog Comparator, Temp. Sensor, Current Sense Amplifier, and Internal Precision Oscillator
 - Core Speed: 20MHz
 - Voltage: 2.7V to 3.6V
 - UARTs: 1
 - 2 16-bit Timers with PWMs
 - Surface Mount



RoHS Compliant

For quantities greater than listed, call for quote.

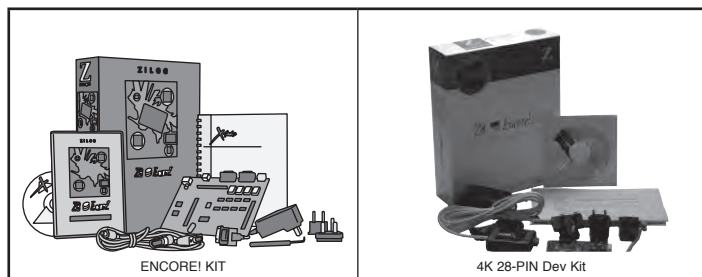
MOUSER STOCK NO.		Package	Flash Bytes	RAM Bytes	NVDS Bytes	I/O Lines	Interrupts	10-bit A/D Channels	Temperature Range (°C)	Price Each		
Mfr.	Mfr. Part No.									1	25	100
	692—Z8F042ASB020EG	SOIC-8	4K	1K	128	6	12	4	0°C to 70°C	1.88	1.72	1.57

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



MOUSER STOCK NO.		Description	Price Each
Mfr.	Mfr. Part Number		
	692—Z8F08200100KIT	ENCORE! KIT (4K-8K Flash)	39.95
	692—Z8F04A28100KITG	4K 28-PIN Dev Kit Lead Free	47.94

ZILOG Z8 ENCORE!™ MICROCONTROLLERS

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



◆ Surface Mount Device

For quantities greater than listed, 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°C to 70°C	2.05	1.92	1.71
◆	692—Z8F0422SJ020SG	SOIC-28	4K	1K	19	19	2	2	5	-	1	2.7 to 3.6	0°C to 70°C	2.40	2.19	2.00
◆	692—Z8F0411HH020EG	SSOP-20	4K	1K	11	16	2	2	-	-	1	2.7 to 3.6	-40°C to 105°C	2.27	2.06	1.89
◆	692—Z8F0421PH020SG	PDIP-20	4K	1K	11	16	2	2	2	-	1	2.7 to 3.6	0°C to 70°C	2.32	2.12	1.93
◆	692—Z8F0811HH020SG	SSOP-20	8K	1K	11	16	2	2	-	-	1	2.7 to 3.6	0°C to 70°C	2.15	1.95	1.79
◆	692—Z8F0812PJ020EG	PDIP-28	8K	1K	19	19	2	2	-	-	1	2.7 to 3.6	-40°C to 105°C	2.76	2.52	2.30
◆	692—Z8F0812PJ020EG	PDIP-28	8K	1K	19	19	2	2	-	-	1	2.7 to 3.6	0°C to 70°C	2.76	2.52	2.30
◆	692—Z8F0821HH020EG	SSOP-20	8K	1K	11	16	2	2	2	-	1	2.7 to 3.6	-40°C to 105°C	2.64	2.41	2.20
◆	692—Z8F0822PJ020SG	PDIP-28	8K	1K	19	19	2	2	5	-	1	2.7 to 3.6	0°C to 70°C	2.68	2.44	2.23
◆	692—Z8F0822SJ020EG	SOIC-28	8K	1K	19	19	2	2	5	-	1	2.7 to 3.6	-40°C to 105°C	2.75	2.50	2.29
◆	692—Z8F040BH020EG	SSOP-20	4K	1K	16	20	2	2	4	-	1	2.7 to 3.6	-40°C to 105°C	1.48	1.35	1.26
◆	692—Z8F1621PM020SG	PDIP-40	16K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	0°C to 70°C	3.76	3.43	3.13
◆	692—Z8F1621VN020EG	PLCC-44	16K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40°C to 105°C	3.97	3.63	3.31
◆	692—Z8F3221VN020EG	PLCC-44	32K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40°C to 105°C	4.32	3.94	3.60
◆	692—Z8F6421AN020EG	LQFP-44	64K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40°C to 105°C	5.29	4.83	4.41
◆	692—Z8F6421PM020EG	PDIP-40	64K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40° to 105°	5.48	4.99	4.57
◆	692—Z8F6421PM020SG	PDIP-40	64K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	0°C to 70°C	4.99	4.55	4.16
◆	692—Z8F6421VN020EG	PLCC-44	64K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40°C to 105°C	5.29	4.83	4.41
◆	692—Z8F6421VN020SG	PLCC-44	64K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	0°C to 70°C	4.81	4.39	4.01
◆	692—Z8F6422VS020EG	PLCC-68	64K	4K	46	24	4	4	12	Yes	2	3.0 to 3.6	-40°C to 105°C	5.48	4.99	4.57
◆	692—Z8F6422VS020SG	PLCC-68	64K	4K	46	24	4	4	12	Yes	2	3.0 to 3.6	0°C to 70°C	4.99	4.55	4.16
◆	692—Z8F6423FT020EG	QFP-80	64K	4K	60	24	4	4	12	Yes	2	3.0 to 3.6	-40°C to 105°C	5.48	4.99	4.57