

ZILOG Microcontrollers and Microprocessors



Products may be RoHS compliant. Check mouser.com for RoHS status.

ZILOG Z8 ENCORE!™ XP MICROCONTROLLERS (CONT.)

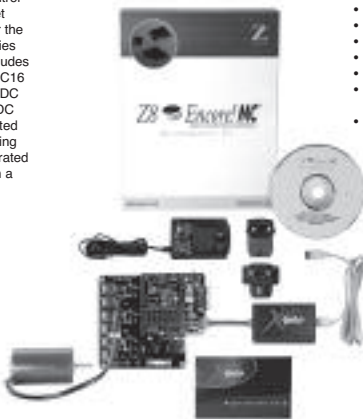
◆ Surface Mount Device

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.		Package	Flash Bytes	RAM Bytes	NVDS Bytes	I/O Lines	Interrupts	16-bit Timers with PWM's	10-bit A/D Channels	UARTs	Voltage (V)	Temperature Range (°C)	Price Each		
Mfr.	Mfr. Part Number												1	25	100
◆	692-Z8F022ASH020SG	SOIC-20	2K	512	64	17	18	2	7	1	2.7 to 3.6V	0 to 70	1.97	1.79	1.64
◆	692-Z8F022ASH020EG	SOIC-20	2K	512	64	17	18	2	7	1	2.7 to 3.6V	-40 to 105	2.17	1.99	1.81
◆	692-Z8F021ASH020SG	SOIC-20	2K	512	64	17	18	2	-	1	2.7 to 3.6V	0 to 70	1.88	1.72	1.57
◆	692-Z8F021ASH020EG	SOIC-20	2K	512	64	17	18	2	-	1	2.7 to 3.6V	-40 to 105	2.08	1.90	1.73
◆	692-Z8F022AH020SG	SSOP-20	2K	512	64	17	18	2	7	1	2.7 to 3.6V	0 to 70	1.97	1.79	1.64
◆	692-Z8F022AH020EG	SSOP-20	2K	512	64	17	18	2	7	1	2.7 to 3.6V	-40 to 105	2.17	1.99	1.81
◆	692-Z8F021AH020SG	SSOP-20	2K	512	64	17	18	2	-	1	2.7 to 3.6V	0 to 70	1.88	1.72	1.57
◆	692-Z8F021AH020EG	SSOP-20	2K	512	64	17	18	2	-	1	2.7 to 3.6V	-40 to 105	2.08	1.90	1.73
◆	692-Z8F022APH020SG	PDIP-20	2K	512	64	17	18	2	7	1	2.7 to 3.6V	0 to 70	1.97	1.79	1.64
◆	692-Z8F022APH020EG	PDIP-20	2K	512	64	17	18	2	7	1	2.7 to 3.6V	-40 to 105	2.17	1.99	1.81
◆	692-Z8F021APH020SG	PDIP-20	2K	512	64	17	18	2	-	1	2.7 to 3.6V	0 to 70	1.88	1.72	1.57
◆	692-Z8F021APH020EG	PDIP-20	2K	512	64	17	18	2	-	1	2.7 to 3.6V	-40 to 105	2.08	1.90	1.73
◆	692-Z8F022ASB020SG	SOIC-8	2K	512	64	6	12	2	4	1	2.7 to 3.6V	0 to 70	1.80	1.64	1.50
◆	692-Z8F042ASJ020SG	SOIC-28	4K	1K	128	23	18	2	8	1	2.7 to 3.6V	0 to 70	2.05	1.92	1.71
◆	692-Z8F041ASJ020SG	SOIC-28	4K	1K	128	25	18	2	-	1	2.7 to 3.6V	0 to 70	1.97	1.79	1.64
◆	692-Z8F042ASB020SG	SOIC-8	4K	1K	128	6	12	2	4	1	2.7 to 3.6V	0 to 70	1.88	1.72	1.57
◆	692-Z8F042AHJ020EG	SSOP-28	4K	1K	128	23	18	2	8	1	2.7 to 3.6V	-40 to 105	2.27	2.06	1.89
◆	692-Z8F041AHJ020SG	SSOP-28	4K	1K	128	25	18	2	-	1	2.7 to 3.6V	0 to 70	1.97	1.79	1.64
◆	692-Z8F041AHJ020EG	SSOP-28	4K	1K	128	25	18	2	-	1	2.7 to 3.6V	-40 to 105	2.17	1.99	1.81
◆	692-Z8F042APJ020SG	PDIP-28	4K	1K	128	23	18	2	8	1	2.7 to 3.6V	0 to 70	2.23	2.04	1.86
◆	692-Z8F042APJ020EG	PDIP-28	4K	1K	128	23	18	2	8	1	2.7 to 3.6V	-40 to 105	2.45	2.23	2.04
◆	692-Z8F041APJ020SG	PDIP-28	4K	1K	128	25	18	2	-	1	2.7 to 3.6V	0 to 70	2.15	1.95	1.79
◆	692-Z8F041APJ020EG	PDIP-28	4K	1K	128	25	18	2	-	1	2.7 to 3.6V	-40 to 105	2.36	2.15	1.97
◆	692-Z8F042ASH020SG	SOIC-20	4K	1K	128	17	18	2	7	1	2.7 to 3.6V	0 to 70	2.05	1.92	1.71
◆	692-Z8F042ASH020EG	SOIC-20	4K	1K	128	17	18	2	7	1	2.7 to 3.6V	-40 to 105	2.27	2.06	1.89
◆	692-Z8F041ASH020SG	SOIC-20	4K	1K	128	17	18	2	-	1	2.7 to 3.6V	0 to 70	1.97	1.79	1.64
◆	692-Z8F041ASH020EG	SOIC-20	4K	1K	128	17	18	2	-	1	2.7 to 3.6V	-40 to 105	2.17	1.99	1.81
◆	692-Z8F042AH020SG	SSOP-20	4K	1K	128	17	18	2	7	1	2.7 to 3.6V	0 to 70	2.05	1.92	1.71
◆	692-Z8F042AH020EG	SSOP-20	4K	1K	128	17	18	2	7	1	2.7 to 3.6V	-40 to 105	2.27	2.06	1.89
◆	692-Z8F041AH020SG	SSOP-20	4K	1K	128	17	18	2	-	1	2.7 to 3.6V	0 to 70	1.97	1.79	1.64
◆	692-Z8F041AH020EG	SSOP-20	4K	1K	128	17	18	2	-	1	2.7 to 3.6V	-40 to 105	2.17	1.99	1.81
◆	692-Z8F042APH020SG	PDIP-20	4K	1K	128	17	18	2	7	1	2.7 to 3.6V	0 to 70	2.05	1.92	1.71
◆	692-Z8F042APH020EG	PDIP-20	4K	1K	128	17	18	2	7	1	2.7 to 3.6V	-40 to 105	2.27	2.06	1.89
◆	692-Z8F041APH020SG	PDIP-20	4K	1K	128	17	18	2	-	1	2.7 to 3.6V	0 to 70	1.97	1.79	1.64
◆	692-Z8F041APH020EG	PDIP-20	4K	1K	128	17	18	2	-	1	2.7 to 3.6V	-40 to 105	2.17	1.99	1.81

ZILOG ZR06 MOTOR CONTROL

The Z8FMC16100 Series Motor Control Development Kit is our affordable yet comprehensive development tool for the Z8 Encore! MC™ Z8FMC16100 Series motor control microcontrollers. It includes a development board with the Z8FMC16100 device which plugs into a brushless DC (BLDC) application board with a BLDC motor. Included is also an opto-isolated USB smart cable for safe programming and debugging and our ZDS II integrated development environment (IDE) with a full ANSI C compiler.



Features:

- Z8FMC16100 series MDS development board
- Brushless DC (BLDC) motor
- BLDC motor control application board
- Opto-isolated USB smart cable
- 5V DC universal power supply
- ZILOG Developer Studio II IDE with a full ANSI C compiler
- Sample code



Block Diagram

12-bit PWM Module for Motor Control	16-bit Timer Capture Capture/Compare/PWM	Operational Amplifier
SPI, I ² C and UART with LIN	20MHz eZB™ CPU	8 Channel 10-bit ADC
512B RAM	Up to 16kb Flash	POR/VBO and Reset Control
Watch-dog Timer	Debugger	Internal Precision Oscillator
Comparator		Interrupt Controller
Up to 17 General-Purpose I/O Pins		

MOUSER STOCK NO.	Zilog Part No.	Description	Price Each
692-Z8FMC16100KIT	Z8FMC16100KIT	Z8FMC16100 Series Development Kit	199.95
692-Z8FMC161000ZEM	Z8FMC161000ZEM	Z8FMC16100 Series Emulator Kit	1999.00
692-ZUSBOPTSC01ZAC	ZUSBOPTSC01ZAC	USB Opto-Isolated Smart Cable Accessory Kit	75.00

◆ Surface Mount Device

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Zilog Part No.	Package	Flash KB Bytes	SRAM Bytes	GPIO	Max. Speed MHz	I ² C/SPI	Trimmed IPO	Temperature (°C)	Price Each			
										1	25	100	
◆	692-Z8FMC16100QKSG	Z8FMC16100QKSG	QFN-32	16 (16,384)	512	17	20	I ² C/SPI	Y	0 to +70	3.79	3.46	3.16
◆	692-Z8FMC16100QKEG	Z8FMC16100QKEG	QFN-32	16	512	17	20	I ² C/SPI	Y	-40 to +105	4.55	4.14	3.79
◆	692-Z8FMC16100AKSG	Z8FMC16100AKSG	LQFP-32	16 (16,384)	512	17	20	I ² C/SPI	Y	0 to +70	3.79	3.46	3.16
◆	692-Z8FMC16100AKEG	Z8FMC16100AKEG	LQFP-32	16	512	17	20	I ² C/SPI	Y	-40 to +105	4.55	4.14	3.79
◆	692-Z8FMC08100QKSG	Z8FMC08100QKSG	QFN-32	8	512	17	20	I ² C/SPI	Y	0 to +70	3.96	3.61	3.30
◆	692-Z8FMC08100QKEG	Z8FMC08100QKEG	QFN-32	8	512	17	20	I ² C/SPI	Y	-40 to +105	4.36	3.97	3.63
◆	692-Z8FMC08100AKSG	Z8FMC08100AKSG	LQFP-32	8	512	17	20	I ² C/SPI	Y	0 to +70	3.96	3.61	3.30
◆	692-Z8FMC08100AKEG	Z8FMC08100AKEG	LQFP-32	8	512	17	20	I ² C/SPI	Y	-40 to +105	4.36	3.97	3.63
◆	692-Z8FMC04100QKSG	Z8FMC04100QKSG	QFN-32	4	512	17	20	I ² C/SPI	Y	0 to +70	3.88	3.54	3.23
◆	692-Z8FMC04100QKEG	Z8FMC04100QKEG	QFN-32	4	512	17	20	I ² C/SPI	Y	-40 to +105	4.27	3.90	3.56
◆	692-Z8FMC04100AKSG	Z8FMC04100AKSG	LQFP-32	4	512	17	20	I ² C/SPI	Y	0 to +70	3.88	3.54	3.23
◆	692-Z8FMC04100AKEG	Z8FMC04100AKEG	LQFP-32	4	512	17	20	I ² C/SPI	Y	-40 to +105	4.27	3.90	3.56

ZILOG EZ80 MICROPROCESSORS



◆ Surface Mount Device

RoHS Compliant

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Zilog Part No.	Package	Communications Controller	Core CPU Used	I/O	WDT	Timers	Voltage (V)	Speed (MHz)	Price Each			
										1	25	100	
◆	692-EZ80L92AZ020EG	EZ80L92AZ020EC	LQFP-100	DMA, I ² C, SPI, UART	EZ80	24	Yes	6	3.3	20	8.51	8.33	7.90
◆	692-EZ80L92AZ020SG	EZ80L92AZ020SC	LQFP-100	DMA, I ² C, SPI, UART	EZ80	24	Yes	6	3.3	20	7.40	7.12	6.87
◆	692-EZ80L92AZ050EG	EZ80L92AZ050EC	LQFP-100	DMA, I ² C, SPI, UART	EZ80	24	Yes	6	3.3	50	9.35	8.93	8.69
◆	692-EZ80L92AZ050SG	EZ80L92AZ050SC	LQFP-100	DMA, I ² C, SPI, UART	EZ80	24	Yes	6	3.3	50	8.14	7.82	7.56
◆	692-EZ80190AZ050SG	EZ80190AZ050SC	LQFP-100	DMA, I ² C, SPI, UART	EZ80	32	Yes	6	3.3V	50	11.02	10.61	10.23
◆	692-EZ80190AZ050EG	EZ80190AZ050EC	LQFP-100	DMA, I ² C, SPI, UART	EZ80	32	Yes	6	3.3V	50	12.66	12.16	11.76

