

ZILOG Microprocessors

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RoHS Compliant This product is RoHS compliant.

ZILOG Z8 OTP MICROCONTROLLERS

The 8-Bit One-Time Programmable (OTP) Microcontrollers are members of ZILOG's single-chip Z8 MCU family featuring enhanced wake-up circuitry, programmable Watch-Dog Timers, Low-Noise EMI options, and easy hardware/software system expansion capability.

◆ Surface Mount Device

* See below for development tools.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	ROM (KB)	RAM (Bytes)	I/O	Interrupts	On Chip Special Features	On Chip Analog Features	WDT	Timers	Comm Int.	Volts (V)	Operating Speed (MHz)	Development Tool Available Key	Price Each		
Mfr.	Mfr. Part Number														1	25	100
◆	692—Z86E0208PEG1925	PDIP-18	0.5	61	14	5	POR, LV Protect	2 comp	Yes	1	---	4.5-5.5	8	B, L, M, N	1.72	1.54	1.33
◆	692—Z86E0208SSG1925	SOIC-18	0.5	61	14	5	POR, LV Protect	2 comp	Yes	1	---	4.5-5.5	8	B, L, M, N	1.57	1.35	.96
◆	692—Z86E0412HSG1903	SSOP-20	1	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	2.41	2.24	2.00
◆	692—Z86E0412SSG1903	SOIC-18	1	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	2.27	1.92	1.44
◆	692—Z86E0412SEG1903	SOIC-18	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	2.50	2.27	2.08
◆	692—Z86E0412SEG	SOIC-18	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	2.50	2.27	2.08
◆	692—Z86E0612SSG	SOIC-18	2	125	14	6	POR	2 comp	Yes	1	SPI	4.5-5.5	12	O, P	4.10	3.78	3.40
◆	692—Z86E0612PSG	PDIP-18	2	125	14	6	POR	2 comp	Yes	1	SPI	4.5-5.5	12	O, P	4.10	3.78	3.40
◆	692—Z86E0812SSG1903	SOIC-18	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	2.79	2.37	1.68
◆	692—Z86E0812PSG1866	PDIP-18	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	2.79	2.37	1.68
◆	692—Z86E0812SSG1866	SOIC-18	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	3.13	2.65	1.88
◆	692—Z86E0812PEG1903	PDIP-18	4	188	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	3.06	2.73	2.54
◆	692—Z86E3016PSG	PDIP-28	4	236	24	6	POR	2 comp	Yes	2	---	3.5-5.5	16	B, E, F	4.94	4.53	4.11
◆	692—Z86E3116PSG	PDIP-28	4	236	24	6	POR	2 comp	Yes	2	---	3.5-5.5	16	B, E, F	3.95	3.66	3.40
◆	692—Z86E4312PSG	PDIP-40	8	236	32	6	POR	2 comp	Yes	2	---	3.5-5.5	12	B, H, I, J, K	5.48	5.34	5.20
◆	692—Z86E4412PSG	PDIP-40	16	237	32	6	POR	2 comp	Yes	2	---	3.5-5.5	12	B, C, D, F, G, H, J, K	9.25	8.46	7.69
◆	692—Z86E6116VSG	PLCC-44	16	237	32	6	---	---	No	2	UART	4.5-5.5	16	L, T, U	14.75	13.51	12.28

ZILOG DEVELOPMENT TOOLS FOR Z8 OTP MICROCONTROLLERS

Key	MOUSER STOCK NO.		Description	Price Each
	Mfr.	Mfr. Part Number		
T	692—Z86E2101ZDF		Z8 OTP Converter (QFP) Kit	198.00

ZILOG SERIAL COMMUNICATIONS CONTROLLERS

• Operating voltage: 5(V)

• On-chip feature: multi-protocol

◆ Surface Mount Device

* See above for development tools.

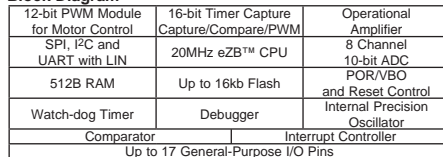
For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	Comm Controller	Speed (MHz)	Ext. Temp.	Mbps.	FIFO Tx (Bytes)	FIFO Rx (Bytes)	Error Detection	Integrated DMA	Full Duplex Channels	Development Tools Available	Full-Duplex Channels: Dual	Price Each		
Mfr.	Mfr. Part Number													1	25	100
◆	692—Z8523L08VSG	PLCC-44	ESCC	8	No	4	4	8	CRC-16 or CRC-CCITT	Yes	No	-	Yes	12.05	10.46	8.61
◆	692—Z80C3008VSG	PLCC-44	SCC	8	No	2.5	1	3	CRC-16 or CRC-CCITT	No	No	-	Yes	15.53	11.27	9.98
◆	692—Z80C3008PSG	DIP-40	SCC	8	Yes	2.5	1	3	CRC-16 or CRC-CCITT	No	No	-	Yes	15.53	11.27	9.98
◆	692—Z8523008VEG	PLCC-44	ESCC	8	Yes	5	4	8	CRC-16 or CRC-CCITT	No	No	G, F	Yes	17.39	15.41	12.42
◆	692—Z8523008PSG	DIP-40	ESCC	8	No	5	4	8	CRC-16 or CRC-CCITT	No	No	G, F	Yes	12.05	10.44	8.61
◆	692—Z8523008VSG	PLCC-44	ESCC	8	No	5	4	8	CRC-16 or CRC-CCITT	No	No	G, F	Yes	12.05	10.44	8.61
◆	692—Z85C3008PEG	PDIP-40	SCC	8	Yes	4	1	3	CRC-16 or CRC-CCITT	No	No	-	Yes	10.27	8.31	7.32
◆	692—Z85C3008PSG	PDIP-40	SCC	8	No	4	1	3	CRC-16 or CRC-CCITT	No	No	-	Yes	6.85	5.87	4.89
◆	692—Z85C3008VSG	PLCC-44	SCC	8	No	4	1	3	CRC-16 or CRC-CCITT	No	No	-	Yes	6.85	5.87	4.89
◆	692—Z8523L10VSG	PLCC-44	ESCC	10	No	4	4	8	CRC-16 or CRC-CCITT	Yes	No	-	Yes	15.22	13.02	10.86
◆	692—Z16C3010ASG	VQFP-100	USC	10	No	10	32	32	CRC-32, CRC-16, CRC-CCITT	No	No	F	Yes	43.19	36.38	30.84
◆	692—Z16C3010VSG	PLCC-68	USC	10	No	10	32	32	CRC-32, CRC-16, CRC-CCITT	No	No	F	Yes	43.19	36.38	30.84
◆	692—Z8523010VSG	PLCC-44	ESCC	10	No	5	4	8	CRC-16 or CRC-CCITT	No	No	G, F	Yes	15.22	12.64	10.86
◆	692—Z8523010PSG	DIP-40	ESCC	10	No	5	4	8	CRC-16 or CRC-CCITT	No	No	G, F	Yes	15.22	12.64	10.86
◆	692—Z8523010VEG	PLCC-44	ESCC	10	Yes	5	4	8	CRC-16 or CRC-CCITT	No	No	G, F	Yes	24.67	20.80	17.63
◆	692—Z85C3010PEG	PDIP-40	SCC	10	Yes	4	1	3	CRC-16 or CRC-CCITT	No	No	-	Yes	11.66	9.79	8.33
◆	692—Z85C3010VEG	PLCC-44	SCC	10	Yes	4	1	3	CRC-16 or CRC-CCITT	No	No	-	Yes	11.66	9.79	8.33
◆	692—Z85C3010VSG	PLCC-44	SCC	10	No	4	1	3	CRC-16 or CRC-CCITT	No	No	-	Yes	7.82	6.86	5.59
◆	692—Z8523010PEG	DIP-40	ESCC	10	Yes	5	4	8	CRC-16 or CRC-CCITT	No	No	G, F	Yes	24.67	20.80	17.63
◆	692—Z8523L16VSG	PLCC-44	ESCC	16	No	4	4	8	CRC-16 or CRC-CCITT	Yes	No	-	Yes	19.52	16.47	13.96
◆	692—Z8023016VSG	PLCC-44	ESCC	16	No	4	4	8	CRC-16 or CRC-CCITT	No	No	G, F	Yes	33.05	26.88	21.25
◆	692—Z8523016VSG	PLCC-44	ESCC	16	No	5	4	8	CRC-16 or CRC-CCITT	No	No	G, F	Yes	19.52	16.62	13.96
◆	692—Z8523016VEG	PLCC-44	ESCC	16	Yes	5	4	8	CRC-16 or CRC-CCITT	No	No	G, F	Yes	30.44	25.58	21.74
◆	692—Z85C3016PSG	PLCC-44	SCC	16	No	4	1	3	CRC-16 or CRC-CCITT	No	No	-	Yes	11.42	9.51	8.16
◆	692—Z8523020PSG	DIP-40	ESCC	20	No	5	4	8	CRC-16 or CRC-CCITT	No	No	G, F	Yes	25.78	21.90	18.41

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 Z8FMC16 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.

Block Diagram



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
- I²C/SPI
- Trimmed IPO



MOUSER STOCK NO.	Zilog Part No.	Description	Price Each
692-Z8FMC161000ZEM	Z8FMC161000ZEM	Z8FMC16100 Series Emulator Kit	1999.00

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	Flash KB Bytes	SRAM Bytes	GPIO	Max. Speed MHz	Temperature Range (°C)	Price Each		
Mfr.	Mfr. Part No.							1	25	100
◆	692—Z8FMC16100QKSG	QFN-32	16 (16,384)	512	17	20	0 to +70	3.79	3.46	3.10
◆	692—Z8FMC16100AKSG	LQFP-32	16 (16,384)	512	17	20	0 to +70	3.79	3.46	3.16
◆	692—Z8FMC16100AKEG	LQFP-32	16	512	17	20	-40 to +105	4.55	4.14	3.79
◆	692—Z8FMC04100AKEG	LQFP-32	4	512	17	20	-40 to +105	4.27	3.90	3.56