

# 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 of 1000 and up, 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	500
◆	692—Z8673312PSG	PDIP-28	0.5	61	24	6	POR	2 comp	Yes	2	---	3.5-5.5	12	A, B, C, D, E, F, G	8.10	6.48	4.63	4.32
◆	692—Z8674312VSG	PLCC-44	0.5	61	32	6	POR	2 comp	Yes	2	---	3.5-5.5	12	A, B, G, I, J, K	9.40	7.52	5.37	5.01
◆	692—Z8674312FSG	PDIP-40	0.5	61	32	6	POR	2 comp	Yes	2	---	3.5-5.5	12	A, B, G, I, J, K	9.40	7.52	5.37	5.01
◆	692—Z8674312PSG	QFP-44	0.5	61	32	6	POR	2 comp	Yes	2	---	3.5-5.5	12	A, B, G, I, J, K	6.50	6.00	5.57	5.20
◆	692—Z86E0208SEG1925	SOIC-18	1	125	14	5	POR, LV Protect	2 comp	Yes	1	---	4.5-5.5	8	B, L, M, N	2.08	1.66	1.14	1.12
◆	692—Z86E0208HEG1925	SSOP-20	1	125	14	5	POR, LV Protect	2 comp	Yes	1	---	4.5-5.5	8	B, L, M, N	2.28	1.82	1.24	1.21
◆	692—Z86E0208PEG1925	PDIP-18	1	125	14	5	POR, LV Protect	2 comp	Yes	1	---	4.5-5.5	8	B, L, M, N	2.08	1.66	1.14	1.12
◆	692—Z86E0208HSG1925	SSOP-20	1	125	14	5	POR, LV Protect	2 comp	Yes	1	---	4.5-5.5	8	B, L, M, N	2.08	1.66	1.12	1.10
◆	692—Z86E0208SSG1925	SOIC-18	1	125	14	5	POR, LV Protect	2 comp	Yes	1	---	4.5-5.5	8	B, L, M, N	1.50	1.20	1.04	1.02
◆	692—Z86E0308SSG	SOIC-18	1	125	14	6	POR	2 comp	Yes	1	---	4.5-5.5	8	A, B, O	4.38	3.50	2.69	2.64
◆	692—Z86E0308PSG	PDIP-18	1	125	14	6	POR	2 comp	Yes	1	---	4.5-5.5	8	A, B, O	4.38	3.50	2.69	2.64
◆	692—Z86E0412HSG1903	SSOP-20	1	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	3.13	2.50	1.67	1.63
◆	692—Z86E0412HEG1903	SSOP-20	1	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	3.45	2.76	1.84	1.80
◆	692—Z86E0412SSG1903	SOIC-18	1	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	2.25	1.80	1.57	1.54
◆	692—Z86E0412PEG1903	PDIP-18	1	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	3.25	2.60	1.73	1.70
◆	692—Z86E0412HEG1866	SSOP-20	1	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	3.45	2.76	1.84	1.80
◆	692—Z86E0412HSG1866	SSOP-20	1	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	3.13	2.50	1.67	1.63
◆	692—Z86E0412SSG1866	SOIC-18	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	2.25	1.80	1.57	1.54
◆	692—Z86E0412PEG	PDIP-18	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	3.25	2.60	1.73	1.70
◆	692—Z86E0412SEG1903	SOIC-18	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	3.25	2.60	1.73	1.70
◆	692—Z86E0412SEG	SOIC-18	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	3.25	2.60	1.73	1.70
◆	692—Z86E0612SSG	SOIC-18	2	125	14	6	POR	2 comp	Yes	1	SPI	4.5-5.5	12	A, O, P	5.33	4.26	2.84	2.78
◆	692—Z86E0612PSG	PDIP-18	2	125	14	6	POR	2 comp	Yes	1	SPI	4.5-5.5	12	A, O, P	5.33	4.26	2.84	2.78
◆	692—Z86E0812HSG1903	SSOP-20	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	3.78	3.02	2.01	1.97
◆	692—Z86E0812SSG1903	SOIC-18	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	2.63	2.10	1.93	1.89
◆	692—Z86E0812HEG1866	SSOP-20	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	4.18	3.34	2.23	2.18
◆	692—Z86E0812SEG1903	SOIC-18	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	2.88	2.30	2.12	2.08
◆	692—Z86E0812PSG1866	PDIP-18	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	2.63	2.10	1.93	1.89
◆	692—Z86E0812HSG1866	SSOP-20	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	3.78	3.02	2.01	1.97
◆	692—Z86E0812SSG1866	SOIC-18	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	2.63	2.10	1.93	1.89
◆	692—Z86E0812SEG	SOIC-18	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	2.88	2.30	2.12	2.08
◆	692—Z86E0812HEG1903	SSOP-20	2	125	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	4.18	3.34	2.23	2.18
◆	692—Z86E0812PEG1903	PDIP-18	4	188	14	6	POR	2 comp	Yes	2	---	4.5-5.5	12	B, L, M, N	3.98	3.18	2.12	2.08
◆	692—Z86E3016PSG	PDIP-28	4	236	24	6	POR	2 comp	Yes	2	---	3.5-5.5	16	B, E, F	6.43	5.14	3.43	3.36
◆	692—Z86E3016SSG	SOIC-28	4	236	24	6	POR	2 comp	Yes	2	---	3.5-5.5	16	B, E, F	6.43	5.14	3.43	3.36
◆	692—Z86E3016PEG	PDIP-28	4	236	24	6	POR	2 comp	Yes	2	---	3.5-5.5	16	B, E, F	7.08	5.66	3.77	3.70
◆	692—Z86E3016VEG	PLCC-28	4	236	24	6	POR	2 comp	Yes	2	---	3.5-5.5	16	B, E, F	6.68	5.34	3.77	3.46
◆	692—Z86E3116SSG	SOIC-28	4	236	24	6	POR	2 comp	Yes	2	---	3.5-5.5	16	B, E, F	5.33	4.26	3.22	3.16
◆	692—Z86E3116VSG	PLCC-28	4	236	24	6	POR	2 comp	Yes	2	---	3.5-5.5	16	B, E, F	5.33	4.26	3.22	3.16
◆	692—Z86E3116PSG	PDIP-28	4	236	24	6	POR	2 comp	Yes	2	---	3.5-5.5	16	B, E, F	5.33	4.26	3.22	3.16
◆	692—Z86E3116VEG	PLCC-28	4	236	24	6	POR	2 comp	Yes	2	---	3.5-5.5	8	B, E, F	5.88	4.70	3.35	3.28
◆	692—Z86E3016SEG	SOIC-28	4	237	24	6	POR	2 comp	Yes	2	---	3.5-5.5	16	B, E, F	7.08	5.66	3.77	3.70
◆	692—Z86E3116PEG	PDIP-28	4	237	24	6	POR	2 comp	Yes	2	---	3.5-5.5	16	B, E, F	5.88	4.70	3.35	3.28
◆	692—Z86E3312PSG	PDIP-28	4	237	24	6	POR	2 comp	Yes	2	---	3.5-5.5	12	A, B, C, D, E, F, G	6.65	5.32	4.27	4.18
◆	692—Z86E3312SSG	SOIC-28	4	237	24	6	POR	2 comp	Yes	2	---	3.5-5.5	12	A, B, C, D, E, F, G	6.65	5.32	4.19	4.11
◆	692—Z86E3312VSG	PLCC-28	4	237	24	6	POR	2 comp	Yes	2	---	3.5-5.5	12	A, B, C, D, E, F, G	6.65	5.32	4.16	4.08
◆	692—Z86E3412SSG	PLCC-28	4	237	24	6	POR	2 comp	Yes	2	---	3.5-5.5	12	A, B, C, D, E, F, G	10.70	8.56	6.03	5.91
◆	692—Z86E3412PSG	SOIC-28	4	237	24	6	POR	2 comp	Yes	2	---	3.5-5.5	12	A, B, C, D, E, F, G	10.70	8.56	6.03	5.91
◆	692—Z86E8316SSG	SOIC-28	4	237	21	6	POR	2 comp,ADC	Yes	2	---	3.5-5.5	16	AA, BB, CC, DD	7.95	6.36	4.24	4.16
◆	692—Z86E8316SEG	SOIC-28	4	237	21	6	POR	2 comp,ADC	Yes	2	---	3.5-5.5	16	AA, BB, CC, DD	8.75	7.00	4.67	4.57
◆	692—Z86E8316VSG	PLCC-28	4	237	21	6	POR	2 comp,ADC	Yes	2	---	3.5-5.5	16	AA, BB, CC, DD	7.95	6.36	4.24	4.16
◆	692—Z86E8316PEG	PLCC-28	4	237	21	6	POR	2 comp,ADC	Yes	2	---	3.5-5.5	16	AA, BB, CC, DD	8.75	7.00	4.67	4.57
◆	692—Z86E8316VEG	PDIP-28	4	237	21	6	POR	2 comp,ADC	Yes	2	---	3.5-5.5	16	AA, BB, CC, DD	8.75	7.00	4.67	4.57
◆	692—Z86E4016FEG	QFP-44	8	237	32	6	POR	2 comp	Yes	2	---	3.5-5.5	16	A, B, F, H, X, Y	6.84	5.70	4.87	4.77
◆	692—Z86E4016VSG	PLCC-44	8	237	32	6	POR	2 comp	Yes	2	---	3.5-5.5	16	A, B, F, H, X, Y	7.65	6.12	4.42	4.33
◆	692—Z86E4016PEG	PDIP-40	8	236	32	6	POR	2 comp	Yes	2	---	3.5-5.5	16	A, B, F, H, X, Y	8.40	6.72	4.87	4.77
◆	692—Z86E4016FSG	QFP-44	8	236	32	6	POR	2 comp	Yes	2	---	3.5-5.5	16	A, B, F, H, X, Y	6.21	5.17	4.42	4.33
◆	692—Z86E4016VEG	PLCC-44	8	236	32	6	POR	2 comp	Yes	2	---	3.5-5.5	16	A, B, F, H, X, Y	8.40	6.72	4.87	4.77
◆	692—Z86E4312PSG	PDIP-40	8	236	32	6	POR	2 comp	Yes	2	---	3.5-5.5	12	A, B, H, I, J, K	8.13	6.50	4.56	4.47
◆	692—Z86E4312VSG	PLCC-44	8	236	32	6	POR	2 comp	Yes	2	---	3.5-5.5	12	A, B, H, I, J, K	8.13	6.50	4.32	4.23
◆	692—Z86E4312FSG	QFP-44	8	236	32	6	POR	2 comp	Yes	2	---	3.5-5.5	12	A, B, H, I, J, K	4.95	4.95	4.95	4.85
◆	692—Z86E4412PSG	QFP-44	8	236	32	6	POR	2 comp	Yes	2	---	3.5-5.5	12	A, B, C, D, F, G, H, I, J, K	8.48	7.57	6.59	6.45
◆	692—Z86E4412VSG	PDIP-40	16	237	32	6	POR	2 comp	Yes	2	---	3.5-5.5	12	A, B, C, D, F, G, H, I, J, K	12.03	9.62	6.41	6.29
◆	692—Z86E6116FSG	QFP-44	16	237	32	6	---	---	No	2	UART	4.5-5.5	16	L, T, U	13.17	11.76	10.23	10.02
◆	692—Z86E6116VSG	PLCC-44	16	237	32	6	---	---	No	2	UART	4.5-5.5	16	L, T, U	19.18	15.34	10.23	10.02
◆	692—Z86E6316VSG	PLCC-44	16	236	32	6	---	---	No	2	UART	4.5-5.5	16	L, T, U	24.35	19.48	12.99	12.73
◆	692—Z86E6316PSG	PDIP-40	16	236	32	6	---	---	No	2	UART	4.5-5.5	16	L, T, U	24.35	19.48	12.99	12.73

## ZILOG DEVELOPMENT TOOLS FOR Z8 OTP MICROCONTROLLERS

Key	MOUSER STOCK NO.		Description	Price Each	Key	MOUSER STOCK NO.		Description	Price Each
	Mfr.	Mfr. Part Number				Mfr.	Mfr. Part Number		
AA	692—Z86C8401ZEM		Z8 In-Circuit Emulator-C84	1500.00	J	692—Z86E4400ZDP		Z86E44 40L PDIP Programming Adapter	42.00
B	692—Z86CCP01ZEM		Z8 Emulator	49.95	K	692—Z86E4400ZDV		Z86E44 44L PLCC Programming Adapter	48.00
BB	692—Z86E8300ZDP		Z86E83 28 PDIP-28 PDIP OTP Programming Adapt.	36.00	M	692—Z86E0700ZDP		Z8 Converter Kit	95.00
C	692—Z86E3400ZDP		Z86E34 28L PDIP Programming Adapter	33.75	N				