

# ZILOG Microcontrollers



MCU / MPU

Zilog

## ZILOG Z8 ENCORE!™ MICROCONTROLLERS (CONT.)

◆ Surface Mount Device

- Each Z8 Encore! Microcontroller contains the following: Watchdog Timers, SPI Port, 12C 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	PWMs	10-Bit A/D Channels	DMA Controller	UARTs	Voltage (V)	Temperature	Price Each			
Mfr.	Mfr. Part Number													1	25	100	500
◆	692-28F1621VN020EG	PLCC-44	16K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40° to 105°	5.55	4.44	3.33	3.00
◆	692-28F1621VN020SG	PLCC-44	16K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	0° to 70°	5.00	4.00	3.00	2.70
◆	692-28F1622AR020EG	LQFP-64	16K	2K	46	24	4	4	12	Yes	2	3.0 to 3.6	-40° to 105°	6.38	5.10	3.82	3.44
◆	692-28F1622AR020SG	LQFP-64	16K	2K	46	24	4	4	12	Yes	2	3.0 to 3.6	0° to 70°	5.73	4.58	3.44	3.10
◆	692-28F1622VS020EG	PLCC-68	16K	2K	46	24	4	4	12	Yes	2	3.0 to 3.6	-40° to 105°	6.45	5.16	3.88	3.49
◆	692-28F1622VS020SG	PLCC-68	16K	2K	46	24	4	4	12	Yes	2	3.0 to 3.6	0° to 70°	5.83	4.66	3.49	3.14
◆	692-28F2421AN020EG	LQFP-44	24K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40° to 105°	6.68	5.34	4.00	3.60
◆	692-28F2421AN020SG	LQFP-44	24K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	0° to 70°	6.00	4.80	3.60	3.24
◆	692-28F2421PM020EG	PDIP-40	24K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40° to 105°	6.88	5.50	4.12	3.71
◆	692-28F2421PM020SG	PDIP-40	24K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	0° to 70°	6.18	4.94	3.71	3.34
◆	692-28F2421VN020EG	PLCC-44	24K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40° to 105°	6.50	5.20	3.91	3.52
◆	692-28F2421VN020SG	PLCC-44	24K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	0° to 70°	5.85	4.68	3.52	3.16
◆	692-28F2422AR020EG	LQFP-64	24K	2K	46	24	4	4	12	Yes	2	3.0 to 3.6	-40° to 105°	7.33	5.86	4.50	3.96
◆	692-28F2422AR020SG	LQFP-64	24K	2K	46	24	4	4	12	Yes	2	3.0 to 3.6	0° to 70°	6.60	5.28	3.96	3.56
◆	692-28F2422VS020EG	PLCC-68	24K	2K	46	24	4	4	12	Yes	2	3.0 to 3.6	-40° to 105°	7.43	5.94	4.45	4.01
◆	692-28F2422VS020SG	PLCC-68	24K	2K	46	24	4	4	12	Yes	2	3.0 to 3.6	0° to 70°	6.68	5.34	4.01	3.61
◆	692-28F3221AN020EG	LQFP-44	32K	2K	31	23	3	3	8	Yes	5	3.0 to 3.6	-40° to 105°	7.83	6.26	4.70	4.23
◆	692-28F3221AN020SG	LQFP-44	32K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	0° to 70°	7.05	5.64	4.23	3.81
◆	692-28F3221PM020EG	PDIP-40	32K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40° to 105°	8.03	6.42	4.82	4.33
◆	692-28F3221PM020SG	PDIP-40	32K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	0° to 70°	7.23	5.78	4.33	3.90
◆	692-28F3221VN020EG	PLCC-44	32K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40° to 105°	7.68	6.14	4.63	4.14
◆	692-28F3221VN020SG	PLCC-44	32K	2K	31	23	3	3	8	Yes	2	3.0 to 3.6	0° to 70°	6.90	5.52	4.14	3.73
◆	692-28F3222AR020EG	LQFP-64	32K	2K	46	24	4	4	12	Yes	2	3.0 to 3.6	-40° to 105°	8.50	6.80	5.09	4.58
◆	692-28F3222AR020SG	LQFP-64	32K	2K	46	24	4	4	12	Yes	2	3.0 to 3.6	0° to 70°	7.65	6.12	4.58	4.13
◆	692-28F3222VS020EG	PLCC-68	32K	2K	46	24	4	4	12	Yes	2	3.0 to 3.6	-40° to 105°	8.58	6.86	5.15	4.63
◆	692-28F3222VS020SG	PLCC-68	32K	2K	46	24	4	4	12	Yes	2	3.0 to 3.6	0° to 70°	7.73	6.18	4.63	4.17
◆	692-28F4821AN020EG	LQFP-44	48K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40° to 105°	8.70	6.96	5.21	4.69
◆	692-28F4821AN020SG	LQFP-44	48K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	0° to 70°	7.83	6.26	4.69	4.22
◆	692-28F4821PM020EG	PDIP-40	48K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40° to 105°	8.88	7.10	5.33	4.80
◆	692-28F4821PM020SG	PDIP-40	48K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	0° to 70°	8.00	6.40	4.80	4.32
◆	692-28F4821VN020EG	PLCC-44	48K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40° to 105°	8.53	6.82	5.12	4.61
◆	692-28F4821VN020SG	PLCC-44	48K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	0° to 70°	7.68	6.14	4.61	4.15
◆	692-28F4822AR020EG	LQFP-64	48K	4K	46	24	4	4	12	Yes	2	3.0 to 3.6	-40° to 105°	9.35	7.48	5.61	5.05
◆	692-28F4822AR020SG	LQFP-64	48K	4K	46	24	4	4	12	Yes	2	3.0 to 3.6	0° to 70°	8.40	6.72	5.05	4.54
◆	692-28F4822VS020EG	PLCC-68	48K	4K	46	24	4	4	12	Yes	2	3.0 to 3.6	-40° to 105°	9.45	7.56	5.66	5.10
◆	692-28F4822VS020SG	PLCC-68	48K	4K	46	24	4	4	12	Yes	2	3.0 to 3.6	0° to 70°	8.50	6.80	5.10	4.59
◆	692-28F4823FT020EG	QFP-80	48K	4K	60	24	4	4	12	Yes	2	3.0 to 3.6	-40° to 105°	9.60	7.68	5.76	5.18
◆	692-28F4823FT020SG	QFP-80	48K	4K	60	24	4	4	12	Yes	2	3.0 to 3.6	0° to 70°	8.65	6.92	5.18	4.67
◆	692-28F6421AN020EG	LQFP-44	64K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40° to 105°	9.65	7.72	5.79	5.21
◆	692-28F6421AN020SG	LQFP-44	64K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	0° to 70°	8.68	6.94	5.21	4.69
◆	692-28F6421PM020EG	PDIP-40	64K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40° to 105°	9.85	7.88	5.91	5.32
◆	692-28F6421PM020SG	PDIP-40	64K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	0° to 70°	8.85	7.08	5.32	4.78
◆	692-28F6421VN020EG	PLCC-44	64K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	-40° to 105°	9.85	7.60	5.69	5.12
◆	692-28F6421VN020SG	PLCC-44	64K	4K	31	23	3	3	8	Yes	2	3.0 to 3.6	0° to 70°	8.55	6.84	5.12	4.61
◆	692-28F6422AR020EG	LQFP-64	64K	4K	46	24	4	4	12	Yes	2	3.0 to 3.6	-40° to 105°	10.30	8.24	6.18	5.57
◆	692-28F6422AR020SG	LQFP-64	64K	4K	46	24	4	4	12	Yes	2	3.0 to 3.6	0° to 70°	9.28	7.42	5.57	5.01
◆	692-28F6422VS020EG	PLCC-68	64K	4K	46	24	4	4	12	Yes	2	3.0 to 3.6	-40° to 105°	10.40	8.32	6.24	5.62
◆	692-28F6422VS020SG	PLCC-68	64K	4K	46	24	4	4	12	Yes	2	3.0 to 3.6	0° to 70°	9.35	7.48	5.62	5.05
◆	692-28F6423FT020EG	QFP-80	64K	4K	60	24	4	4	12	Yes	2	3.0 to 3.6	-40° to 105°	10.55	8.44	6.33	5.70

## ZILOG ZNEO™ Z16F SERIES 16-BIT FLASH MICROCONTROLLERS

This new line of 16-bit Flash Microcontrollers is based on a ground up, highly-effective core architecture that compliments ZILOG's Z8 Encore! 64K Series by providing more memory (128KB Flash) and a higher performance of 20 MIPS. ZNEO is packed with peripherals, balancing price and performance.



### Z16F Series Features:

- External 16-bit bus with 16MB linear address space
- 8-, 16-, and 32-bit ALU operations
- Single cycle execution
- Fast 600KHz 12-channel SAR ADC
- 5.5MHz IPO
- Analog Comparator
- Op Amp
- 6 channel synchronized PWM timers
- Internal/external DMA
- Enhanced SPI
- 12C master/slave
- 2 LIN-UARTS

MOUSER STOCK NO.	Zilog Part No.	Description	Price Each
692-Z16F2800100ZCOG	Z16F2800100ZCOG	ZNEO Z16F Series Development Kit	99.95
692-ZUSB00100ZACG	ZUSB00100ZACG	USB Smart Cable Accessory Kit	29.95

The wide variety of peripherals gives the new Z16F Series the value-added punch necessary for today's budget conscious designs.

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Zilog Part No.	Package Type	Flash (Kbytes)	RAM (Kbytes)	External Interface	I/O	Multi-Channel Timers with PWM	Standard Timers with PWM	ADC Inputs	I2C Master-Slave	UART with LIN & IrDA	ESPI	Temp	Price Each			
														1	25	100	500
692-Z16F3211AL20SG	Z16F3211AL20SG	LQFP-100	32	2	Yes	76	1	3	12	1	2	1	0 to +70°	11.80	9.44	7.09	6.38
692-Z16F3211F120SG	Z16F3211F120SG	QFP-80	32	2	Yes	60	1	3	12	1	2	1	0 to +70°	11.25	9.00	6.75	6.07
692-Z16F6411AL20SG	Z16F6411AL20SG	LQFP-100	64	4	Yes	76	1	3	12	1	2	1	0 to +70°	10.20	7.65	6.65	6.89
692-Z16F6411F120SG	Z16F6411F120SG	QFP-80	64	4	Yes	60	1	3	12	1	2	1	0 to +70°	11.80	9.44	7.09	6.38
692-Z16F2811AL20SG	Z16F2811AL20SG	LQFP-100	128	4	Yes	76	1	3	12	1	2	1	0 to +70°	14.43	11.54	8.65	7.79
692-Z16F2811F120SG	Z16F2811F120SG	QFP-80	128	4	Yes	60	1	3	12	1	2	1	0 to +70°	14.88	11.90	8.92	8.03
692-Z16F2810AG20SG	Z16F2810AG20SG	LQFP-100	128	4	No	46	1	3	12	1	2	1	0 to +70°	13.98	11.18	8.39	7.55
692-Z16F2810VH20SG	Z16F2810VH20SG	QFP-80	128	4	No	46	1	3	12	1	2	1	0 to +70°	14.08	11.26	8.44	7.60

