

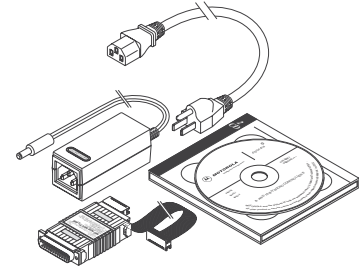
MultiLink

The MultiLink is an easy-to-use, low cost development tool for the Freescale HC(S)08 and HC(S)12 MCUs. It provides In-Circuit emulation, debugging and programming through the MON08 (HC08) and BDM (HC12, HCS08) interfaces.

Features:

- Universal development tool for HC(S)08 and HC(S)12 MCUs
- Real-Time In-Circuit emulation and debug
- Fast In-Circuit programming
- Auto-detects baud rate and frequency
- Provides optional overdrive clock to target
- Small size
- Supports 2V – 5.5V
- Auto-cycle power for security checks (up to 125mA)
- Universal power supply (included).

The M68CYCLONEPRO provides all the same capabilities of the MultiLinks, with the ability to function as a standalone programmer, with pushbuttons and LEDs to control operation. Also provides support for 1.8V operation.



M68CYCLONEPROE-ND	HC(S)08, HC(S)12, USB	\$499.05
USBMULTILINK08E-ND	HC08s, USB	\$99.05
USBMULTILINKBDM E-ND	HC(S)08, HC(S)12, USB	\$106.92

32-Bit Microcontrollers

ColdFire™ the highly integrated ColdFire series of processors allow for advanced performance at low cost. Rich peripheral sets and development tools make these processors both easy to use and highly functional. The variable length RISC architecture enable this processor to save system memory and cost.

PowerPC™ series of processors from Freescale Semiconductor, Inc. are the ideal foundation for RISC embedded applications. Features include high scalability and code compatibility over the entire line.

M-Core™ with an emphasis on low power consumption, the M-CORE series of processors are the ideal

match for handheld and other low-power applications, which require high performance.

68K series of processors are ideal for the engineer looking for high performance at a reduced cost. The wide array of 68K processors can suit most any application.

i.MX™ based on ARM® core technology and designed for use in smartphones, wireless PDAs, mobile entertainment and many other mobile wireless applications, Freescale's i.MX family is engineered to smart speed-low power consumption with MHz performance to spare, and a high degree of integration to reduce your design time significantly.

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.	
												1	25	100		
ColdFire™ Processors																
1K	4K	—	4	TDM, USB	—	—	3.3	66	-40 – 85	196-BGA	MCF5272VM66-ND	15.65	14.36	12.39	MCF5272VM66	
	4K	—	4	TDM, USB	—	—	3.3	66	-40 – 85	196-BGA	MCF5272CVM66-ND	17.87	16.40	14.96	MCF5272CVM66	
2K	64K	256K	8+4 DMA	3 Asynch., QSPI	8-Ch., 10-Bit QADC	—	3.3, 5.0	66	0 – 70	256-MAPBGA	MCF5214CVM66-ND	19.00	17.36	15.88	MCF5214CVM66	
	64K	—	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	66	-40 – 85	256-MAPBGA	MCF5280CVM66-ND	22.85	20.97	19.13	MCF5280CVM66	
	64K	—	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	80	-40 – 85	256-MAPBGA	MCF5280CVM80-ND	27.40	25.15	22.94	MCF5280CVM80	
	64K	256K	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	66	-40 – 85	256-MAPBGA	MCF5281CVM66-ND	25.60	23.50	21.44	MCF5281CVM66	
	64K	256K	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	80	-40 – 85	256-MAPBGA	MCF5281CVF80-ND	29.08	26.48	24.83	MCF5281CVF80	
	64K	256K	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	80	-40 – 85	256-MAPBGA	MCF5281CVM80-ND	29.08	26.48	24.83	MCF5281CVM80	
4K	8K	—	2	2 Asynch.	—	—	3.3	40	0 – 70	160-QFP	MCF5206ECAB40-ND	15.95	14.64	13.36	MCF5206ECAB40	
	8K	—	2	2 Asynch.	—	—	3.3	40	0 – 70	160-QFP	MCF5206EAB40-ND	12.87	11.81	10.78	MCF5206EAB40	
8K	8K	—	2	2 Asynch.	—	—	3.3	54	0 – 70	160-QFP	MCF5206EAB54-ND	15.95	14.64	13.36	MCF5206EAB54	
	4K	—	2	I ² C, UART	—	—	3.3	66	-40 – 85	208-FOFP	MCF5307CAI66B-ND	25.28	23.20	21.16	MCF5307CAI66B	
	16K	—	16-32 Bit	QSPI, UART	—	—	3.3	166	-40 – 85	144-MAPBGA	MCF5207CVM166-ND	9.21	7.63	6.96	MCF5207CVM166	
	64K	—	24	3 Asynch., QSPI, CAN 2.0b	—	—	1.5, 3.3	80	-40 – 85	160-QFP	MCF5232CAB80-ND	16.07	14.75	13.45	MCF5232CAB80	
	64K	—	24	3 Asynch., QSPI, CAN 2.0b	—	—	1.5, 3.3	100	-40 – 85	196-MAPBGA	MCF5232CVM100-ND	16.07	14.75	13.45	MCF5232CVM100	
	64K	—	24	3 Asynch., QSPI, CAN 2.0b	—	—	1.5, 3.3	150	-40 – 85	196-MAPBGA	MCF5232CVM150-ND	21.28	19.53	17.81	MCF5232CVM150	
	64K	—	40	3 Asynch., QSPI, 2-CAN 2.0b	—	—	1.5, 3.3	100	-40 – 85	256-MAPBGA	MCF5233CVM100-ND	21.70	19.91	18.17	MCF5233CVM100	
	64K	—	40	3 Asynch., QSPI, 2-CAN 2.0b	—	—	1.5, 3.3	150	-40 – 85	256-MAPBGA	MCF5233CVM150-ND	26.87	24.66	22.50	MCF5233CVM150	
	64K	—	24	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	100	-40 – 85	256-MAPBGA	MCF5234CVM100-ND	20.89	19.17	17.49	MCF5234CVM100	
	64K	—	24	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	150	-40 – 85	256-MAPBGA	MCF5234CVM150-ND	26.06	23.92	21.82	MCF5234CVM150	
	64K	—	24	3 Asynch., QSPI, 2-CAN 2.0b	—	—	1.5, 3.3	100	-40 – 85	256-MAPBGA	MCF5235CVM100-ND	24.11	22.13	20.19	MCF5235CVM100	
	64K	—	24	3 Asynch., QSPI, 2-CAN 2.0b, IIC	—	—	1.5, 3.3	150	-40 – 85	256-MAPBGA	MCF5235CVM150-ND	26.86	24.47	22.94	MCF5235CVM150	
	64K	—	8	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	100	0 – 70	160-QFP	MCF5270AB100-ND	11.78	10.81	9.86	MCF5270AB100	
	64K	—	8	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	100	-40 – 85	196-MAPBGA	MCF5271CVM100-ND	14.92	13.69	12.49	MCF5271CVM100	
	64K	—	8	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	100	-40 – 85	160-QFP	MCF5271CAB100-ND	14.92	13.69	12.49	MCF5271CAB100	
	96K	—	2	I ² C, UART	—	—	—	3.3	140	-40 – 85	160-BGA	MCF5249VM140-ND	13.54	12.73	12.43	MCF5249VM140
	96K	—	2	I ² C, UART	—	—	—	3.3	120	-40 – 85	144-LQFP	MCF5249LAC120-ND	13.56	12.75	12.44	MCF5249LAC120
	96K	—	2	I ² C, UART	—	—	—	3.3	120	-40 – 85	144-LQFP	MCF5249LAG120-ND	12.89	11.83	10.79	MCF5249LAG120
	96K	—	2	I ² C, UART	—	—	—	3.3	140	-40 – 85	160-MAPBGA	MCF5249CVM140-ND	14.21	13.04	11.25	MCF5249CVM140
	16K	64K	—	8	3 Asynch., QSPI, IIC	—	4-Ch.	1.5, 2.5, 3.3	166	0 – 70	196-MAPBGA	MCF5274LVM166-ND	12.95	11.88	10.84	MCF5274LVM166
64K		—	8	3 Asynch., QSPI, IIC, USB 2.0	—	4-Ch.	1.5, 2.5, 3.3	166	0 – 70	256-MAPBGA	MCF5274VM166-ND	16.09	14.76	13.47	MCF5274VM166	
64K		—	8	3 Asynch., QSPI, IIC, USB 2.0	—	4-Ch.	1.5, 2.5, 3.3	166	-40 – 85	196-MAPBGA	MCF5275LVM166-ND	16.09	14.76	13.47	MCF5275LVM166	
64K		—	8	3 Asynch., QSPI, IIC, USB 2.0	—	4-Ch.	1.5, 2.5, 3.3	166	-40 – 85	256-MAPBGA	MCF5275CVM166-ND	19.23	17.65	16.10	MCF5275CVM166	
24K	4K	—	2	I ² C, UART	—	—	3.3	220	-40 – 85	208-FOFP	MCF5407CAI220-ND	50.10	45.97	41.94	MCF5407CAI220	
	4K	—	2	I ² C, UART	—	—	3.3	162	-40 – 85	208-FOFP	MCF5407CAI162-ND	44.31	40.66	37.10	MCF5407CAI162	
	4K	—	2	I ² C, UART	—	—	3.3	220	-40 – 85	208-FOFP	MCF5407AI220-ND	44.31	40.66	37.10	MCF5407AI220	
	4K	—	2	I ² C, UART	—	—	3.3	162	-40 – 85	208-FOFP	MCF5407AI162-ND	36.58	33.56	30.62	MCF5407AI162	
64K	64K	512K	8-16 Bit	I ² C, UART	—	—	5.0	66	-40 – 85	256-BGA	MCF5282CVM66-ND	27.84	25.55	23.31	MCF5282CVM66	
	64K	512K	8-16 Bit	I ² C, UART	—	—	5.0	80	-40 – 85	256-BGA	MCF5282CVM80-ND	33.42	30.66	27.98	MCF5282CVM80	
	32K	—	6	4 Asynch., SPI, IIC	—	—	1.5, 2.5, 3.3	200	0 – 70	388-PBGA	MCF5471ZP200-ND	31.18	29.45	27.72	MCF5471ZP200	
	32K	—	6	4 Asynch., SPI, IIC	—	—	1.5, 2.5, 3.3	200	0 – 70	388-PBGA	MCF5471VR200-ND	32.17	29.52	26.94	MCF5471VR200	
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 – 70	388-PBGA	MCF5472VR200-ND	27.33	25.08	22.88	MCF5472VR200	
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 – 70	388-PBGA	MCF5473ZP200-ND	31.18	29.45	27.72	MCF5473ZP200	
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 – 70	388-PBGA	MCF5474ZP200-ND	29.68	28.04	26.39	MCF5474ZP200	
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 – 70	388-PBGA	MCF5474VR200-ND	28.13	25.62	24.02	MCF5474VR200	

• RoHS Compliant † 4-Channel DMA ‡ Cut Tape ‡ Tape and Reel

(Continued)

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