

FREESCALE 32-Bit Microcontrollers



COLDFIRE® 32-BIT MICROCONTROLLERS

The ColdFire® product portfolio offers a wide mix of performance, price, integration and debugging capabilities for embedded designers. Its integration possibilities are limited only by imagination, and its 20-year history of 68K legacy is something no other competitor can offer. With these features to work with, the ColdFire® architecture is in a leadership position in the 32-bit embedded space.

For quantities 250 and up, call for quote.

MOUSER STOCK NO.	Freescale Part No.	Package	Internal RAM (Byte)	Internal FLASH (Byte)	Cache (kBytes)	Serial Interface Type	Bus Freq. (MHz) (Max)	ADC	I/O Pins	Timer Channels	Price Each		
											1	25	100
841-MCF5206EAB40	MCF5206EAB40	QFP 160	-	8000	4	UART	40	-----	8	-	13.44	12.43	11.09
841-MCF5206EAB54	MCF5206EAB54	QFP 160	-	8000	4	UART	54	-----	8	-	16.65	15.40	13.74
841-MCF5206ECAB40	MCF5206ECAB40	QFP 160	-	8000	4	UART	40	-----	8	-	16.65	15.40	13.74
841-MCF5208CVM166	MCF5208CVM166	MAPBGA 196	-	-	-	-	-	-----	-	-	11.28	10.43	9.31
841-MCF5211CAE66	MCF5211CAE66	LQFP 64	-	16000	-	-----	80	12-bit / 8-ch	56	-	7.95	7.35	6.56
841-MCF5211CEP66	MCF5211CEP66	QFN 64	-	-	-	-----	-	12-bit / 8-ch	-	-	9.54	8.82	7.87
841-MCF5211LCEP66	MCF5211LCEP66	QFN 64	-	16000	-	-----	80	12-bit / 8-ch	56	-	7.95	7.35	6.56
841-MCF5211LCVM66	MCF5211LCVM66	MAPBGA 81	-	16000	-	-----	80	12-bit / 8-ch	56	-	8.37	7.74	6.91
841-MCF5211LCVM80	MCF5211LCVM80	MAPBGA 81	-	16000	-	-----	805	12-bit / 8-ch	56	-	8.76	8.10	7.23
841-MCF5212CAE66	MCF5212CAE66	LQFP 64	256k	32000	-	-----	665	12-bit / 8-ch	33	-	10.28	9.50	8.48
841-MCF5212LCVM66	MCF5212LCVM66	MAPBGA 81	256k	32000	-	-----	665	12-bit / 8-ch	33	-	10.28	9.50	8.48
841-MCF5212LCVM80	MCF5212LCVM80	MAPBGA 81	256k	32000	-	-----	665	12-bit / 8-ch	33	-	11.01	10.18	9.08
841-MCF5213CAF66	MCF5213CAF66	LQFP 100	256k	32000	-	-----	805	12-bit / 8-ch	56	-	12.00	11.10	9.90
841-MCF5213CAF80	MCF5213CAF80	LQFP 100	256k	32000	-	-----	805	12-bit / 8-ch	56	-	12.65	11.70	10.43
841-MCF5213LCVM66	MCF5213LCVM66	MAPBGA 81	256k	32000	-	-----	665	12-bit / 8-ch	44	-	10.62	9.82	8.76
841-MCF5213LCVM80	MCF5213LCVM80	MAPBGA 81	256k	32000	-	-----	665	12-bit / 8-ch	44	-	12.48	11.54	10.30
841-MCF5214CVF66	MCF5214CVF66	MAPBGA 256	256k	64000	4	UART, I2C, QSPI, FlexCAN	665	10-bit / 8-ch	142	4	22.32	20.65	18.41
841-MCF5214CVM66	MCF5214CVM66	MAPBGA 256	256k	64000	4	UART, I2C, QSPI, FlexCAN	665	10-bit / 8-ch	142	4	19.83	18.35	16.36
841-MCF5216CVF66	MCF5216CVF66	MAPBGA 256	512k	64000	4	UART, I2C, QSPI, FlexCAN	665	10-bit / 8-ch	142	4	24.98	23.10	20.60
841-MCF5216CVM66	MCF5216CVM66	MAPBGA 256	512k	64000	4	UART, I2C, QSPI, FlexCAN	665	10-bit / 8-ch	142	4	21.42	19.82	17.67
841-MCF5232CAB80	MCF5232CAB80	QFP 160	-	64000	16	-----	405	-----	61	-	16.79	15.53	13.85
841-MCF5232CVM100	MCF5232CVM100	MAPBGA 196	-	64000	16	FlexCAN, I2C, UART	505	-----	97	-	16.79	15.53	13.85
841-MCF5232CVM150	MCF5232CVM150	MAPBGA 196	-	64000	16	FlexCAN, I2C, UART	755	-----	97	-	22.22	20.56	18.34
841-MCF5233CVM100	MCF5233CVM100	MAPBGA 256	-	64000	8	CAN, I2C, UART	755	-----	61	-	22.65	20.95	18.69
841-MCF5233CVM150	MCF5233CVM150	MAPBGA 256	-	64000	8	CAN, I2C, UART	755	-----	97	-	28.07	25.96	23.15
841-MCF5234CVM100	MCF5234CVM100	MAPBGA 256	-	64000	8	FlexCAN, I2C, UART	755	-----	97	-	21.81	20.17	17.99
841-MCF5234CVM150	MCF5234CVM150	MAPBGA 256	-	64000	8	FlexCAN, I2C, UART	755	-----	97	-	27.23	25.18	22.46
841-MCF5235CVM100	MCF5235CVM100	MAPBGA 256	-	64000	16	-----	755	-----	113	-	25.17	23.28	20.77
841-MCF5235CVM150	MCF5235CVM150	MAPBGA 256	-	64000	16	CAN, I2C, UART	755	-----	97	-	30.59	28.29	25.23
841-MCF5249CVF140	MCF5249CVF140	MAPBGA 160	-	96000	8	UART, I2C, QSPI	1405	10-bit / 8-ch	47	-	16.86	15.60	13.91
841-MCF5249CVM140	MCF5249CVM140	MAPBGA 160	-	96000	8	UART, I2C, QSPI	1405	-----	47	-	16.86	15.60	13.91
841-MCF5249LAG120	MCF5249LAG120	LQFP 144	-	96000	8	UART, I2C, QSPI	120	10-bit / 8-ch	34	-	15.29	14.14	12.61
841-MCF5249LCAG120	MCF5249LCAG120	LQFP 144	-	96000	8	UART, I2C, QSPI	1205	-----	34	-	16.10	14.89	13.28
814-MCF5249VF140	MCF5249VF140	MAPBGA 160	-	96000	8	UART, I2C, QSPI	140	10-bit / 8-ch	47	-	21.44	19.83	17.69
841-MCF5249VM140	MCF5249VM140	MAPBGA 160	-	96000	8	UART, I2C, QSPI	140	-----	47	-	16.08	14.87	13.27
841-MCF5270AB100	MCF5270AB100	QFP 160	-	64000	16	-----	50	-----	39	-	12.30	11.38	10.15
841-MCF5270CVM150	MCF5270CVM150	MAPBGA 196	-	64000	16	-----	50	-----	97	-	14.75	13.64	12.16
841-MCF5270VM100	MCF5270VM100	MAPBGA 196	-	64000	16	-----	50	-----	61	-	12.30	11.38	10.15
841-MCF5271CAB100	MCF5271CAB100	QFP 160	-	64000	16	-----	505	-----	39	-	15.57	14.40	12.85
841-MCF5271CVM100	MCF5271CVM100	MAPBGA 196	-	64000	16	-----	505	-----	61	-	15.57	14.40	12.85
841-MCF5271CVM150	MCF5271CVM150	MAPBGA 196	-	64000	16	-----	505	-----	97	-	17.19	15.90	14.18
814-MCF5272CVF66	MCF5272CVF66	MAPBGA 196	-	4000	1	UART, USB, TDM, QSPI	665	-----	32	4	18.66	17.26	15.39
841-MCF5272CVM66	MCF5272CVM66	MAPBGA 196	-	4000	1	-----	665	-----	62	-	18.66	17.26	15.39
841-MCF5274CVM166	MCF5274CVM166	MAPBGA 256	-	64000	32	UART, I2C, SPI, USB2.0	835	-----	39	-	18.44	17.05	15.21
841-MCF5274LCVM166	MCF5274LCVM166	MAPBGA 196	-	64000	32	UART, I2C, SPI, USB2.0	835	-----	69	-	15.15	14.01	12.50
841-MCF5274LVF166	MCF5274LVF166	MAPBGA 196	-	-	-	-----	-	-----	-	-	13.52	12.50	11.15
841-MCF5274LVM166	MCF5274LVM166	MAPBGA 196	-	64000	32	UART, I2C, SPI, USB2.0	83	-----	61	-	13.52	12.50	11.15
841-MCF5274VM166	MCF5274VM166	MAPBGA 256	-	64000	32	UART, I2C, SPI, USB2.0	83	-----	69	-	16.80	15.54	13.86
841-MCF5275CVM166	MCF5275CVM166	MAPBGA 256	-	64000	32	UART, I2C, SPI, USB2.0	835	-----	69	-	20.09	18.58	16.57
841-MCF5275LCVM166	MCF5275LCVM166	MAPBGA 196	-	64000	32	UART, I2C, SPI, USB2.0	835	-----	61	-	16.80	15.54	13.86
841-MCF5280CVF66	MCF5280CVF66	MAPBGA 256	-	64000	4	UART, I2C, QSPI, FlexCAN, MAC (FEC), 10/100 Ethernet	665	10-bit / 8-ch	150	4	24.59	22.74	20.28
841-MCF5280CVF80	MCF5280CVF80	MAPBGA 256	-	64000	4	UART, I2C, QSPI, FlexCAN, MAC (FEC), 10/100 Ethernet	805	10-bit / 8-ch	150	4	29.51	27.29	24.34
841-MCF5280CVM66	MCF5280CVM66	MAPBGA 256	-	64000	4	UART, I2C, QSPI, FlexCAN, MAC (FEC), 10/100 Ethernet	665	10-bit / 8-ch	150	4	23.85	22.06	19.68
841-MCF5280CVM80	MCF5280CVM80	MAPBGA 256	-	64000	4	UART, I2C, QSPI, FlexCAN, MAC (FEC), 10/100 Ethernet	805	10-bit / 8-ch	150	4	28.62	26.47	23.61
841-MCF5281CVF66	MCF5281CVF66	MAPBGA 256	256k	64000	4	UART, I2C, QSPI, FlexCAN, MAC (FEC), 10/100 Ethernet	665	10-bit / 8-ch	150	4	27.57	25.50	22.75
841-MCF5281CVF80	MCF5281CVF80	MAPBGA 256	256k	64000	4	UART, I2C, QSPI, FlexCAN, MAC (FEC), 10/100 Ethernet	805	10-bit / 8-ch	150	4	33.09	30.61	27.30
841-MCF5281CVM66	MCF5281CVM66	MAPBGA 256	256k	64000	4	UART, I2C, QSPI, FlexCAN, MAC (FEC), 10/100 Ethernet	665	10-bit / 8-ch	150	4	26.75	24.74	22.06
841-MCF5281CVM80	MCF5281CVM80	MAPBGA 256	256k	64000	4	UART, I2C, QSPI, FlexCAN, MAC (FEC), 10/100 Ethernet	805	10-bit / 8-ch	150	4	33.11	30.62	27.31
841-MCF5282CVF66	MCF5282CVF66	MAPBGA 256	512k	64000	4	UART, I2C, QSPI, FlexCAN, MAC (FEC), 10/100 Ethernet	665	10-bit / 8-ch	150	4	29.97	27.72	24.73
841-MCF5282CVF80	MCF5282CVF80	MAPBGA 256	512k	64000	4	UART, I2C, QSPI, FlexCAN, MAC (FEC), 10/100 Ethernet	805	10-bit / 8-ch	150	4	35.97	33.27	29.68
841-MCF5282CVM66	MCF5282CVM66	MAPBGA 256	512k	64000	4	UART, I2C, QSPI, FlexCAN, MAC (FEC), 10/100 Ethernet	665	10-bit / 8-ch	150	4	29.07	26.89	23.98
841-MCF5282CVM80	MCF5282CVM80	MAPBGA 256	512k	64000	4	UART, I2C, QSPI, FlexCAN, MAC (FEC), 10/100 Ethernet	805	10-bit / 8-ch	150	4	34.89	32.27	28.78
841-MCF5307AI66B	MCF5307AI66B	FQFP 208	-	4000	16	UART, I2C	66	-----	16	2	21.48	19.87	17.72
841-MCF5307AI90B	MCF5307AI90B	FQFP 208	-	4000	16	UART, I2C	90	-----	16	2	28.29	26.17	23.34
841-MCF5307CAI66B	MCF5307CAI66B	FQFP 208	-	4000	16	UART, I2C	66	-----	16	2	26.40	24.42	21.78
841-MCF5407AI162	MCF5407AI162	FQFP 208	-	4000	24	UART, I2C	162	-----	16	2	38.21	35.34	31.52
841-MCF5407AI220	MCF5407AI220	FQFP 208	-	4000	24	UART, I2C	220	-----	16	2	46.28	42.80	38.18
841-MCF5407CAI162	MCF5407CAI162	FQFP 208	-	4000	24	UART, I2C	162	-----	16	2	46.28	42.80	38.18
841-MCF5407CAI220	MCF5407CAI220	FQFP 208	-	4000	24	UART, I2C	220	-----	16	2	52.32	48.40	43.16
841-MCF5470VR200	MCF5470VR200	PBGA 388	-	32000	64	UART	200	-----	99	-	28.55	26.40	23.55
841-MCF5471VR200	MCF5471VR200	PBGA 388	-	32000	64	UART	200	-----	99	-	33.60	31.08	27.72
841-MCF5472VR200	MCF5472VR200	PBGA 388	-	32000	64	UART	200	-----	99	-	28.55	26.40	23.55
841-MCF5473VR200	MCF5473VR200	PBGA 388	-	32000	64	UART	200	-----	99	-	33.60	31.08	27.72
841-MCF5474VR200	MCF5474VR200	PBGA 388	-	32000	64	UART	200	-----	99	-	32.01	29.61	26.41
841-MCF5474VR266	MCF5474VR266	PBGA 388	-	32000	64	UART	200	-----	99	-	33.60	31.08	27.72
841-MCF5475VR200	MCF5475VR200	PBGA 388	-	32000	64	UART	200	-----	99	-	37.05	34.27	30.57
841-MCF5475VR266	MCF5475VR266	PBGA 388	-	32000	64	UART	266	-----	99	-	38.66	35.76	31.89
841-MCF5480CVR166	MCF5480CVR166	PBGA 388	-	32000	64	-----	166	-----	99	-	33.59	31.07	27.81
841-MCF5481CVR166	MCF5481CVR166	PBGA 388	-	32000	64	-----	166	-----	99	-	38.64	35.74	31.88
841-MCF5482CVR166	MCF5482CVR166	PBGA 388	-	32000	64	-----	166	-----	99	-	33.59	31.07	27.81
841-MCF5483CVR166	MCF5483CVR166	PBGA 388	-	32000	64	-----	166	-----	99	-	38.64	35.74	31.88
841-MCF5484CVR200	MCF5484CVR200	PBGA 388	-	32000	64	-----	200	-----	99	-	39.55	36.58	32.63
841-MCF5485CVR200	MCF5485CVR200	PBGA 388	-	32000	64	-----	200	-----	99	-	44.58	41.24	36.78