

FREESCALE Microcontrollers and Microprocessors



Products may be RoHS compliant. Check mouser.com for RoHS status.

COLDFIRE® MCF5301X FAMILY - 32-BIT LOW POWER WITH DUAL ETHERNET, USB AND AUDIO SUB-SYSTEM

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Freescale Part No.	Package	Internal RAM (Byte)	Cache (Byte)	Serial Interface Type	Bus Freq. (MHz) (Max)	I/O Pins	Timer Ch.	Price Each		
									1	25	100
841-MCF53010CQT240	MCF53010CQT240	LQFP-208	128K	16K	UART, I ² C, SPI, SSI, Ethernet	80	61	8	16.12	15.17	9.48
841-MCF53011CQT240	MCF53011CQT240	LQFP-208	128K	16K	UART, I ² C, SPI, SSI, Ethernet	80	61	8	18.14	17.07	10.67
841-MCF53012CQT240	MCF53012CQT240	LQFP-208	128K	16K	UART, I ² C, SPI, SSI, Ethernet	80	61	8	20.15	16.80	11.86
841-MCF53013CQT240	MCF53013CQT240	LQFP-208	128K	16K	UART, I ² C, SPI, SSI, Ethernet	80	61	8	22.17	20.52	13.05

COLDFIRE® MCF5225X EXPANDED CONNECTIVITY MCUS

The MCF5225x family consists of highly integrated devices with on-chip USB, Ethernet, CAN and encryption functions, featuring the complete Freescale MQX RTOS software at no additional cost. This solution is ideal for factory automation, building control, and medical applications.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Freescale Part No.	Package	Internal RAM (Byte)	Internal FLASH (Byte)	Serial Interface Type	MIPS	Bus Freq. (MHz) (Max)	ADC	I/O Pins	Timer Ch.	Price Each		
											1	25	100
841-MCF52252AF80	MCF52252AF80	LQFP 100	32	256	QSPI, UART, I ² C, USB, Ethernet	76	80	12-bit/8-ch	56	2,4	8.26	7.77	4.86
841-MCF52254AF80	MCF52254AF80	LQFP 100	64	512	QSPI, UART, I ² C, USB, Ethernet	76	80	12-bit/8-ch	56	2,4	9.49	8.93	5.58
841-MCF52252CAF66	MCF52252CAF66	LQFP 100	32	256	QSPI, UART, I ² C, USB, Ethernet, CAN	63	66	12-bit/8-ch	56	2,4	8.78	8.24	5.16
841-MCF52254CAF66	MCF52254CAF66	LQFP 100	64	512	QSPI, UART, I ² C, USB, Ethernet, CAN	63	66	12-bit/8-ch	56	2,4	10.03	9.41	5.89
841-MCF52255CAF80	MCF52255CAF80	LQFP 100	64	512	QSPI, UART, I ² C, USB, Ethernet, CAN	76	80	12-bit/8-ch	56	2,4	11.01	10.36	6.48
841-MCF52256AG80	MCF52256AG80	LQFP 144	32	256	QSPI, UART, I ² C, USB, Ethernet	76	80	12-bit/8-ch	96	2,4	9.09	7.90	5.34
841-MCF52258AG80	MCF52258AG80	LQFP 144	64	512	QSPI, UART, I ² C, USB, Ethernet	76	80	12-bit/8-ch	96	2,4	10.41	9.79	6.12
841-MCF52256CAG66	MCF52256CAG66	LQFP 144	64	256	QSPI, UART, I ² C, USB, Ethernet, CAN	63	66	12-bit/8-ch	96	2,4	9.58	9.01	5.64
841-MCF52259CAG80	MCF52259CAG80	LQFP 144	64	512	QSPI, UART, I ² C, USB, Ethernet, CAN	76	80	12-bit/8-ch	96	2,4	11.91	11.21	7.01
841-MCF52258CAG66	MCF52258CAG66	LQFP 144	64	512	QSPI, UART, I ² C, USB, Ethernet, CAN	63	66	12-bit/8-ch	96	2,4	10.90	10.26	6.42

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.



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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 Ch.	Price Each		
											1	25	100
841-MCF51J2E56CLK	MCF51J2E56CLK	LQFP-80	32K	256000	-	SCI, SPI, USB	50.33	12-bit/4-ch	68	2	6.63	5.71	4.44
841-MCF51AC256BCLKE	MCF51AC256BCLKE	LQFP-80	32K	256000	-	SCI, SPI	50.33	12-bit/24-ch	69	12	6.87	5.92	4.60
841-MCF5328CVM240J	MCF5328CVM240J	MAPBGA-256	32K	16000	16	CAN, I ² C, QSPI, USB	240	-	4	-	14.10	12.14	9.44
841-MCF5328CVM240	MCF5328CVM240	MAPBGA-256	32K	16000	16	CAN, I ² C, QSPI, USB	240	-	4	-	16.82	14.90	9.43
841-MCF5206EAB40	MCF5206EAB40	QFP 160	-	8000	4	UART	40	-----	8	-	16.45	15.48	9.68
841-MCF5206EAB54	MCF5206EAB54	QFP 160	-	8000	4	UART	54	-----	8	-	19.14	17.30	11.99
841-MCF5206ECAB40	MCF5206ECAB40	QFP 160	-	8000	4	UART	40	-----	8	-	19.14	17.30	11.99
841-MCF5211CAE66	MCF5211CAE66	LQFP 64	-	16000	-	-----	80	12-bit/8-ch	56	-	7.96	7.25	5.72
841-MCF5211CEP66	MCF5211CEP66	QFN 64	-	-	-	-----	66	12-bit/8-ch	-	-	12.36	10.98	8.48
841-MCF5212CAE66	MCF5212CAE66	LQFP 64	256K	32000	-	-----	665	12-bit/8-ch	33	-	12.57	11.83	7.40
841-MCF5213CAF66	MCF5213CAF66	LQFP 100	256K	32000	-	-----	805	12-bit/8-ch	56	-	14.68	13.82	8.64
841-MCF5213CAF80	MCF5213CAF80	LQFP 100	256K	32000	-	-----	805	12-bit/8-ch	56	-	15.47	14.56	9.10
841-MCF5232CAB80	MCF5232CAB80	QFP 160	-	64000	16	-----	405	-----	61	-	19.30	17.44	12.09
841-MCF5249LAG120	MCF5249LAG120	LQFP 144	-	96000	8	UART, I ² C, QSPI	120	10-bit/8-ch	34	-	17.63	15.72	14.80
841-MCF5249LCAG120	MCF5249LCAG120	LQFP 144	-	96000	8	UART, I ² C, QSPI	1205	-----	34	-	27.39	25.11	22.87
841-MCF5271CAB100	MCF5271CAB100	QFP 160	-	64000	16	-----	505	-----	39	-	17.90	16.18	11.21
841-MCF5307AI66B	MCF5307AI66B	FQFP 208	-	4000	16	UART, I ² C	66	-----	16	2	24.70	22.32	15.47
841-MCF5307AI90B	MCF5307AI90B	FQFP 208	-	4000	16	UART, I ² C	90	-----	16	2	32.53	29.39	20.37
841-MCF5307CAI66B	MCF5307CAI66B	FQFP 208	-	4000	16	UART, I ² C	66	-----	16	2	30.35	27.43	19.01
841-MCF5407AI162	MCF5407AI162	FQFP 208	-	4000	24	UART, I ² C	162	-----	16	2	43.92	39.70	27.51
841-MCF5407AI220	MCF5407AI220	FQFP 208	-	4000	24	UART, I ² C	220	-----	16	2	53.20	48.08	33.32
841-MCF5407CAI162	MCF5407CAI162	FQFP 208	-	4000	24	UART, I ² C	162	-----	16	2	53.20	48.08	33.32
841-MCF5407CAI220	MCF5407CAI220	FQFP 208	-	4000	24	UART, I ² C	220	-----	16	2	60.15	54.35	37.67
841-MCF5471VR200	MCF5471VR200	PBGA 388	-	32000	64	UART	200	-----	99	-	36.13	31.11	24.19
841-MCF5472VR200	MCF5472VR200	PBGA 388	-	32000	64	UART	200	-----	99	-	32.81	29.66	20.55
841-MCF5474VR200	MCF5474VR200	PBGA 388	-	32000	64	UART	200	-----	99	-	34.42	29.64	23.05
841-MCF5474VR266	MCF5474VR266	PBGA 388	-	32000	64	UART	200	-----	99	-	36.13	31.11	24.19
841-MCF5475VR266	MCF5475VR266	PBGA 388	-	32000	64	UART	266	-----	99	-	44.44	40.16	27.83
841-MCF5480CVR166	MCF5480CVR166	PBGA 388	-	32000	64	-----	166	-----	99	-	38.61	34.89	24.18
841-MCF5482CVR166	MCF5482CVR166	PBGA 388	-	32000	64	-----	166	-----	99	-	38.61	34.89	24.18
841-MCF5484CVR200	MCF5484CVR200	PBGA 388	-	32000	64	-----	200	-----	99	-	46.04	41.64	28.47
841-MCF5485CVR200	MCF5485CVR200	PBGA 388	-	32000	64	-----	200	-----	99	-	51.25	46.32	32.10

MPC5125 - LOW POWER, HIGH PERFORMANCE MICROPROCESSOR

Features:

- Robust high-performance Power Architecture™ display solution at a low-cost/power-efficient point with full OS and middleware support.
- Dual 10/100BT Ethernet for bridging solutions
- Display interface supporting WXGA/720p, 24-bit color
- Rich set of connectivity:
 - 10x Flexible PSC (SPI, UART, AC'97, I²S, Multi-Ch TDM)
 - 4x CAN2.0 A/B, data rates in excess of 1Mbs
 - 2x High Speed USB 2.0 Host/Device/On-The-Go
 - 2x SDHC (MMC, SD, SDIO expansion)

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MOUSER STOCK NO.	Freescale Part No.	Package	Internal RAM (Byte)	Serial Interface Type	Bus Freq. (MHz) (Max)	I/O Pins	Price Each		
							1	25	100
841-MPC5125YVNA00	MPC5125YVNA00	PBGA-324	32K	SPI, UART, I ² C, USB	400	64	24.75	22.37	15.50

PX SERIES POWER ARCHITECTURE MICROCONTROLLERS

Ruggedized safety features for complex industrial control applications



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MOUSER STOCK NO.	Freescale Part No.	Package	Operating Freq. Max.	Internal Flash (kB)	Internal RAM (kB)	Serial Interface Type	Supply Voltage (V)	Price Each		
								1	25	100
841-MPXD1005VLQ64	MPXD1005VLQ64	LQFP-144	16	512	48	SPI, UART	3.3 to 5	12.12	10.60	7.45
841-MPXD1010VLQ64	MPXD1010VLQ64	LQFP-144	16	1000	45	SPI, UART	3.3 to 5	15.57	14.67	8.33
841-MPXD1010VLU64	MPXD1010VLU64	LQFP-176	16	1000	48	SPI, UART	3.3 to 5	15.91	10.71	10.07
841-MPXR2020VMG116	MPXR2020VMG116	MAPBGA-208	60	2000	32	CAN, I ² C, SPI, UART	1.2	30.82	27.65	22.73
841-MPXR4040VVU264	MPXR4040VVU264	PBGA-416	66	4000	256	CAN, SPI	1.2	41.87	40.61	34.61
841-MPXS2010VLQ120	MPXS2010VLQ120	LQFP-144	120	1000	128	UART, SPI, CAN	3 to 3.6	15.99	13.42	12.58
841-MPXS2010VMM120	MPXS2010VMM120	MAPBGA-257	120	1000	128	UART, SPI, CAN	3 to 3.6	21.29	16.62	15.55
841-MPXS2005VLQ80	MPXS2005VLQ80	LQFP-144	120	512	128	SPI	3.3 to 5	15.89	12.75	8.82
841-MPXS2010VLQ80	MPXS2010VLQ80	LQFP-144	120	1000	128	SPI	3.3 to 5	20.55	17.19	10.79
841-MPXD2020VLU125	MPXD2020VLU125	LQFP-176	125	2000	64	CAN, I ² C, SCI, SPI	3.3 to 5	32.44	28.03	19.42
841-MPXD2020VU125	MPXD2020VU125	PBGA-416	125	2000	64	UART, I ² C, SCI, SPI	3.3 to 5	38.79	33.58	26.23
841-MPXS3020VMS180	MPXS3020VMS180	MAPBGA-473	256	2000	512	SPI, CAN, UART	3.3	42.97	40.54	25.34