

FREESCALE Microcontrollers and Microprocessors



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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	-	12.84	11.76	10.76
841-MCF5206EAB54	MCF5206EAB54	QFP 160	-	8000	4	UART	54	-----	8	-	15.91	14.58	13.33
841-MCF5206ECAB40	MCF5206ECAB40	QFP 160	-	8000	4	UART	40	-----	8	-	15.91	14.58	13.33
841-MCF5211CAE66	MCF5211CAE66	LQFP 64	-	16000	-	-----	80	12-bit / 8-ch	56	-	8.81	6.38	6.03
841-MCF5211CEP66	MCF5211CEP66	QFN 64	-	-	-	-----	-	12-bit / 8-ch	-	-	10.56	7.64	7.23
841-MCF5212CAE66	MCF5212CAE66	LQFP 64	256k	32000	-	-----	665	12-bit / 8-ch	33	-	9.82	8.23	7.79
841-MCF5213CAF66	MCF5213CAF66	LQFP 100	256k	32000	-	-----	805	12-bit / 8-ch	56	-	11.40	9.61	9.07
841-MCF5213CAF80	MCF5213CAF80	LQFP 100	256k	32000	-	-----	805	12-bit / 8-ch	56	-	12.08	10.13	9.58
841-MCF5232CAB80	MCF5232CAB80	QFP 160	-	64000	16	-----	405	-----	61	-	16.03	14.69	13.43
841-MCF5249LAG120	MCF5249LAG120	LQFP 144	-	96000	8	UART, I2C, QSPI	120	10-bit / 8-ch	34	-	14.60	13.37	12.23
841-MCF5249LCAG120	MCF5249LCAG120	LQFP 144	-	96000	8	UART, I2C, QSPI	1205	-----	34	-	15.42	14.14	12.88
841-MCF5270AB100	MCF5270AB100	QFP 160	-	64000	16	-----	50	-----	39	-	11.75	10.77	9.84
841-MCF5271CAB100	MCF5271CAB100	QFP 160	-	64000	16	-----	505	-----	39	-	14.88	13.64	12.47
841-MCF5307AI66B	MCF5307AI66B	FQFP 208	-	4000	16	UART, I2C	66	-----	16	2	18.91	17.19	16.11
841-MCF5307AI90B	MCF5307AI90B	FQFP 208	-	4000	16	UART, I2C	90	-----	16	2	24.91	22.64	21.23
841-MCF5307CAI66B	MCF5307CAI66B	FQFP 208	-	4000	16	UART, I2C	66	-----	16	2	23.24	21.12	19.80
841-MCF5407AI162	MCF5407AI162	FQFP 208	-	4000	24	UART, I2C	162	-----	16	2	33.62	30.56	28.65
841-MCF5407AI220	MCF5407AI220	FQFP 208	-	4000	24	UART, I2C	220	-----	16	2	40.73	37.03	34.71
841-MCF5407CAI162	MCF5407CAI162	FQFP 208	-	4000	24	UART, I2C	162	-----	16	2	40.73	37.03	34.71
841-MCF5407CAI220	MCF5407CAI220	FQFP 208	-	4000	24	UART, I2C	220	-----	16	2	41.86	40.55	39.24
841-MCF5470VR200	MCF5470VR200	PBGA 388	-	32000	64	UART	200	-----	99	-	27.33	25.07	21.41
841-MCF5471VR200	MCF5471VR200	PBGA 388	-	32000	64	UART	200	-----	99	-	31.29	28.49	25.20
841-MCF5472VR200	MCF5472VR200	PBGA 388	-	32000	64	UART	200	-----	99	-	25.12	22.84	21.41
841-MCF5474VR200	MCF5474VR200	PBGA 388	-	32000	64	UART	200	-----	99	-	28.13	25.62	24.02
841-MCF5474VR266	MCF5474VR266	PBGA 388	-	32000	64	UART	200	-----	99	-	32.17	29.52	25.20
841-MCF5475VR266	MCF5475VR266	PBGA 388	-	32000	64	UART	266	-----	99	-	34.02	30.93	29.00
841-MCF5480CVR166	MCF5480CVR166	PBGA 388	-	32000	64	-----	166	-----	99	-	31.27	28.47	25.19
841-MCF5482CVR166	MCF5482CVR166	PBGA 388	-	32000	64	-----	166	-----	99	-	31.27	28.47	25.19
841-MCF5484CVR200	MCF5484CVR200	PBGA 388	-	32000	64	-----	200	-----	99	-	34.80	31.64	29.66
841-MCF5485CVR200	MCF5485CVR200	PBGA 388	-	32000	64	-----	200	-----	99	-	39.23	35.67	33.44

MCU / MPU / DSP
Freescale

FREESCALE TOWER SYSTEM - MODULAR DEVELOPMENT PLATFORM



Freescale's Tower System is a modular development platform designed to save you months of development time now and in the future through rapid prototyping and tool re-use. The Tower System consists of interchangeable and reusable modules along with open source design files make it easy to customize your design and reduce low level design giving you more time to focus on differentiated solutions.

The Tower System is a simple concept. Take basic hardware modules, connect them together and start designing. There are two types of hardware modules, MCU/MPU and peripheral, which plug into backplane "elevator" boards. Through the use of open software and a standardized form factor and signal list, Freescale can continually design new modules to meet your design requirements. New modules can be easily connected and used for future product development.

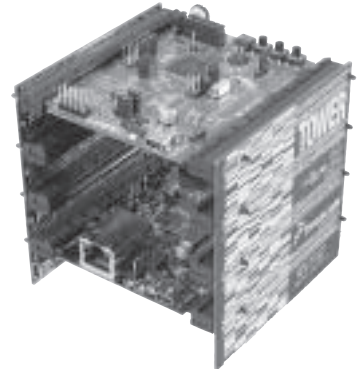
The elevator boards have high-density, high-performance but low-cost PCI Express card-edge connectors for up to four modular boards. In addition, the elevator boards provide:

- Common serial and expansion bus signals
- Standardized signal assignments
- Power regulation circuitry
- Two expansion connectors for outward facing cards, such as an LCD module

The MCU/MPU modules are designed to work standalone or as part of the Tower System and feature:

- Basic user interfaces (buttons, DIP switches, LEDs, potentiometers, etc.)
- Debug interface via new OSBDM
- Sensor or other useful demonstration circuitry
- Power and debug through a single USB connector

Peripheral modules are also being developed for serial connectors, memory options, graphical LCDs and others. These modules and elevator boards combine to make a constantly evolving development system that will save you time and money.



For quantities 250 and up, call for quote.

MOUSER STOCK NO.	Freescale Part No.	Description	Price Each
841-TWR-MCF51CN-KIT	TWR-MCF51CN-KIT	Tower System Development Kit for MCF5CN128 MCU's	93.50
841-TWR-MCF51CN	TWR-MCF51CN	Tower System MCF51CN128 MCU Module	38.89
841-TWR-SER	TWR-SER	Tower System Serial I/O Module	48.86
841-TWR-ELEV	TWR-ELEV	Tower System Elevator Modules	28.91

POWERQUICC COMMUNICATIONS PROCESSOR

The MPC8377E provides a high performance Power Architecture™ e300 core up to 800MHz with 32K I/D L1 cache, and integrated x2 SATA and x2 PCI Express controllers that help to reduce overall BOM cost. The System on a Chip (SoC) also includes two Gigabit Ethernet controllers for network connectivity and a security engine for encryption algorithm offload.



MPC8377E

For quantities of 100 and up, call for quote.

MOUSER STOCK NO.	Freescale Part No.	Package	Core Type	Core Operating Freq. Max.	Cache (bytes)	External Memory Supported	Ethernet	USB	Bus Frequency max. (MHz)	Price Each		
										1	25	50
841-MPC8377EVRJF	MPC8377EVRJF	PBGA-PGE 689	e300	533	32K	DDR1,DDR2,EPROM,FLASH	10/100/1000 BaseT	2.0	133	55.45	50.69	47.42
841-MPC8377EVRALG	MPC8377EVRALG	PBGA-PGE 689	e300	667	32K	DDR1,DDR2,EPROM,FLASH	10/100/1000 BaseT	2.0	133	63.02	57.62	54.90
841-MPC8378EVRJF	MPC8378EVRJF	PBGA-PGE 689	e300	533	32K	DDR1,DDR2,EPROM,FLASH	10/100/1000 BaseT	-	133	55.45	50.69	47.42
841-MPC8379EVRAGD	MPC8379EVRAGD	PBGA-PGE 689	e300	400	32K	DDR1,DDR2,EPROM,FLASH	10/100/1000 BaseT	-	133	60.49	55.30	53.73
841-MPC8379EVRANG	MPC8379EVRANG	PBGA-PGE 689	e300	800	32K	DDR1,DDR2,EPROM,FLASH	10/100/1000 BaseT	-	133	89.22	81.57	77.70

