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ColdFire/ColdFire+ Solutions: The Perfect 32-bit Compilation

MCU and MPU product summary

Microcontrollers (MCUs)

Part Number	Key Features	Core	Freq. (MHz)	MIPS @ Max Freq.	MMU and FPU	MAC/eMAC	HW Divide	Cache (KB)	SRAM (KB)	Flash (KB)	Memory Controller	EBI	DMA	GPT*	PWM	PIT	10/100 FEC	Encryption	USB	CAN	I ² C	UART/USART/PSC/SCI	SPI	ADC	Other	GPIO Max	Package	Operating Voltage	10K# FSRP Starting Price	Evaluation Board	Unit FSRP	Low-Cost Board	Unit FSRP	Production-Ready Module	
MCF51AC128	Flexis 8-bit AC Compatibility, 256 KB Flash, CAN, FlexTimer	V1	50	46					16	128				1 x 2-ch., 16-bit					Full Speed Device/ Host/ OTG	1	2	2 SCI	2	24-ch., 12-bit	2x 6-ch., 16-bit FTM, 2x ACMP, CRC, COP	70	80 LQFP, 64 QFP, 64 LQFP	2.7 to 5.5	\$3.54	DEMOACKIT + DEMOACEX	\$125	DEMOACKIT	\$99		
MCF51AC256		V1	50	46					32	256				1 x 2-ch., 16-bit					Full Speed Device/ Host/ OTG	1	2	2 SCI	2	24-ch., 12-bit	2x 6-ch., 16-bit FTM, 2x ACMP, CRC, COP	70	80 LQFP, 64 QFP, 64 LQFP	2.7 to 5.5	\$3.81						
MCF51CN128	10/100 Ethernet, Mini-FlexBus	V1	50	46					24	128				2 x 3-ch., 16-bit			1					2	3 SCI	2	12-ch., 12-bit	Ultra-Low Power	70	80 LQFP, 48 QFN, 64 LQFP	1.8 to 3.6	\$2.99	TWR-MCF51CN-KIT	\$99	TWR-MCF51CN	\$39	
MCF51AG96	DMA, iEvent, System Safety (CRC, COP, EWM), Flex Timers and ADC	V1	50	46					16	96			4-ch.	1 x 2-ch., 16-bit TPM							1	2 SCI	2	24-ch., 12-bit	2 x 6-ch., 16-bit FTM, iEvent, ACMP/DAC, PDB, CRC, COP, EWM	69	80 LQFP, 64 LQFP, 64 QFP, 48 LQFP	2.7 to 5.5	\$2.91	TWR-MCF51AG-KIT	\$119	TWR-MCF51AG	\$79		
MCF51AG128		V1	50	46					16	128			4-ch.	1 x 2-ch., 16-bit TPM							1	2 SCI	2	24-ch., 12-bit	2 x 6-ch., 16-bit FTM, iEvent, ACMP/DAC, PDB, CRC, COP, EWM	69	80 LQFP, 64 LQFP, 64 QFP, 48 LQFP	2.7 to 5.5	\$3.01						
MCF51JE128	Flexis 8-bit JE Compatibility, DAC, VREF, PDB, Mini-FlexBus, USB OTG	V1	50	46	MAC				32	128				2 x 4-ch., 16-bit					Full Speed Device/ Host/ OTG	1	2	2 SCI	2	8-ch., 12-bit	16x KBI, TOD, CMT, PRACMP	48	81 MAPBGA, 80 LQFP	1.8 to 3.6	\$3.79	TWR-MCF51JE-KIT	\$109	TWR-MCF51JE	\$69		
MCF51JE256		V1	50	46	MAC				32	256				2 x 4-ch., 16-bit					Full Speed Device/ Host/ OTG	1	2	2 SCI	2	8-ch., 12-bit	16x KBI, TOD, CMT, PRACMP	69	104 MAPBGA, 81 MAPBGA, 80 LQFP, 100 LQFP	1.8 to 3.6	\$4.11						
MCF51JM32	Flexis 8-bit JM Compatibility, USB OTG (FS), CAN, Encryption	V1	50	46					16	32				1 x 6-ch., 16-bit 1 x 2-ch., 16-bit				√	Full Speed Device/ Host/ OTG	1	2	2 SCI	2	12-bit	8x KBI, 1x ACMP	66	80 LQFP, 64 QFP, 64 LQFP, 44 LQFP	2.7 to 5.5	\$1.93	EVB51JM128	\$325	DEMOJM	\$99		
MCF51JM64		V1	50	46					16	64				1 x 6-ch., 16-bit 1 x 2-ch., 16-bit				√	Full Speed Device/ Host/ OTG	1	2	2 SCI	2	12-bit	8x KBI, 1x ACMP	66	80 LQFP, 64 QFP, 64 LQFP, 44 LQFP	2.7 to 5.5	\$2.88						
MCF51JM128		V1	50	46					16	128				1 x 6-ch., 16-bit 1 x 2-ch., 16-bit				√	Full Speed Device/ Host/ OTG	1	2	2 SCI	2	12-bit	8x KBI, 1x ACMP	66	80 LQFP, 64 QFP, 64 LQFP, 44 LQFP	2.7 to 5.5	\$3.18						
MCF51QE32	Flexis 8-bit QE Compatibility, Ultra-Low Power	V1	50	46					8	32				1 x 6-ch., 16-bit 2 x 3-ch., 16-bit							2	2 SCI	2	12-bit	Ultra-Low Power, 2x KBI (8-ch.), 2x ACMP	54	64 LQFP	1.8 to 3.6	\$1.94	EVBQE128	\$325	DEMOQE128	\$99		
MCF51QE64		V1	50	46					8	64				1 x 6-ch., 16-bit 2 x 3-ch., 16-bit							2	2 SCI	2	12-bit	Ultra-Low Power, 2x KBI (8-ch.), 2x ACMP	54	64 LQFP	1.8 to 3.6	\$2.50						
MCF51QE128		V1	50	46					8	128				1 x 6-ch., 16-bit 2 x 3-ch., 16-bit							2	2 SCI	2	12-bit	Ultra-Low Power, 2x KBI (8-ch.), 2x ACMP	70	80 LQFP, 64 LQFP	1.8 to 3.6	\$2.78						

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Part Number	Key Features	Core	Freq. (MHz)	MIPS @ Max Freq.	MMU and FPU	MAC/eMAC	HW Divide	Cache (KB)	SRAM (KB)	Flash (KB)	Memory Controller	EBI	DMA	GPT*	PWM	PIT	10/100 FEC	Encryption	USB	CAN	ƒC	UART/USART/PSC/SCI	SPI	ADC	Other	GPIO Max	Package	Operating Voltage	10K# FSRP Starting Price	Evaluation Board	Unit FSRP	Low-Cost Board	Unit FSRP	Production-Ready Module		
MCF51MM128	Flexis 8-bit MM Compatibility, DAC, 2xOPAM, 2xTRIAMP, VREF, PDB, Mini-FlexBus, USB OTG	V1	50	46		MAC			32	256				2 x 4-ch, 16-bit					Full Speed Device/ Host/ OTG		1	2 SCI	2	8-ch., 16-bit	16x KBI, TOD, CMT, PRACMP	48	81 MAPBGA 80 LQFP	1.8 to 3.6	\$4.10	TWR-MCF51MM-KIT	\$149	TWR-MCF51MM	\$59			
MCF51MM256		V1	50	46		MAC			32	256				2 x 4-ch, 16-bit					Full Speed Device/ Host/ OTG		1	2 SCI	2	8-ch., 16-bit	16x KBI, TOD, CMT, PRACMP	69	104 MAPBGA 81 MAPBGA 80 LQFP 100 LQFP	1.8 to 3.6	\$4.51							
MCF5211	Up to 80 MHz, 128-512 KB Flash, CAN	V2	66, 80	76		MAC	✓		16	128				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2					1	3 UART	QSPI	12-bit		44	LQFP 64, MAPBGA 81	3.3V	\$4.93	M5213EVBE	\$299	M5211DEMO	\$99			
MCF5212		V2	66, 80	76		MAC	✓		32	256				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2					1	3 UART	QSPI	12-bit		44	LQFP 64, MAPBGA 81	3.3V	\$6.37							
MCF5213		V2	66, 80	76		MAC	✓		32	256				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2					1	1	3 UART	QSPI	12-bit		56	LQFP 100, MAPBGA 81	3.3V						\$6.58	
MCF5214		V2	66	63		eMAC	✓	2K I/D	64	256	SDR SDRAM	✓		4-ch., 32-bit 4-ch., 16-bit		4						1	1	3 UART	QSPI	10-bit		142	MAPBGA 256						3.3V	\$12.43
MCF5216		V2	66	63		eMAC	✓	2K I/D	64	512	SDR SDRAM	✓		4-ch., 32-bit 4-ch., 16-bit		4						1	1	3 UART	QSPI	10-bit		142	MAPBGA 256						3.3V	\$13.42
MCF5210		V2	66, 80	76		MAC	✓		16	64				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2						2	3 UART	QSPI	12-bit	RTC w/32 kHz Osc	44	QFN 64, LQFP 64, MAPBGA 81	3.3V						\$2.60	
MCF52110	V2	66, 80	76		MAC	✓		16	128				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2						2	3 UART	QSPI	12-bit	RTC w/32 kHz Osc	56	QFN 64, LQFP 64, MAPBGA 81, LQFP 100	3.3V	\$2.86	M52211EVB	\$299	M52210DEMO	\$99			
MCF52210	USB OTG (FS), 64-256 KB Flash	V2	66, 80	76		MAC	✓		16	64				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2					2	2 UART	QSPI	12-bit	RTC w/32 kHz Osc	46	QFN 64, LQFP 64, MAPBGA 81	3.3V	\$3.05	M52211EVB	\$299	M52210DEMO	\$99			
MCF52211		V2	66, 80	76		MAC	✓		16	128				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2					2	3 UART	QSPI	12-bit	RTC w/32 kHz Osc	52	QFN 64, LQFP 64, MAPBGA 81, LQFP 100	3.3V	\$3.35							
MCF52212		V2	50	46		MAC	✓		4	64				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2					2	2 UART	QSPI	12-bit	RTC w/32 kHz Osc	35	LQFP 64	3.3V	\$2.84							
MCF52213		V2	50	46		MAC	✓		8	128				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2					2	2 UART	QSPI	12-bit	RTC w/32 kHz Osc	35	LQFP 64	3.3V	\$3.19							

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MCF52221	USB OTG (FS), 64-256 KB Flash	V2	66, 80	76		MAC	✓		16	128				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2			Full Speed Device/Host/OTG		1	3 UART	QSPI	12-bit	RTC	46	LQFP 64, MAPBGA 81	3.3V	\$3.40	M52223EVB	\$299	M52221DEMO	\$99			
MCF52223		V2	66, 80	76		MAC	✓		32	256				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2			Full Speed Device/Host/OTG		1	3 UART	QSPI	12-bit	RTC	52	LQFP 100, MAPBGA 81	3.3V	\$3.85							
MCF52230	Single-Chip 10/100 Ethernet MAC and PHY, 128-256 KB Flash, CAN, Encryption	V2	60	57		eMAC	✓		32	128				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2	1				1	3 UART	QSPI	12-bit	EPHY, RTC	76	LQFP 80, LQFP 112	3.3V	\$5.16	M522335EVB	\$299	M52233DEMO	\$99			
MCF52231		V2	60	57		eMAC	✓		32	128				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2	1				1	1	3 UART	QSPI	12-bit	EPHY, RTC	76	LQFP 80, LQFP 112	3.3V						\$5.36	
MCF52232		V2	50	46		eMAC	✓		32	128				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2	1					1	3 UART	QSPI	12-bit	EPHY, RTC	43	LQFP 80	3.3V						\$4.54	
MCF52233		V2	60	57		eMAC	✓		32	256				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2	1					1	3 UART	QSPI	12-bit	EPHY, RTC	76	LQFP 80, LQFP 112	3.3V						\$5.68	
MCF52234		V2	60	57		eMAC	✓		32	256				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2	1					1	1	3 UART	QSPI	12-bit	EPHY, RTC	76	LQFP 112, MAPBGA 121						3.3V	\$6.13
MCF52235		V2	60	57		eMAC	✓		32	256				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2	1		✓			1	1	3 UART	QSPI	12-bit	EPHY, RTC	76	LQFP 112, MAPBGA 121						3.3V	\$6.63
MCF52236		V2	50	46		eMAC	✓		32	256				4-ch., 32-bit 4-ch., 16-bit	4-ch., 16-bit	2	1						1	3 UART	QSPI	12-bit	EPHY, RTC	43	LQFP 80						3.3V	\$4.99
MCF52252		V2	80	76		MAC	✓		32	256				4-ch.	4-ch., 32-bit	4-ch., 16-bit	2	1			Full Speed Device/Host/OTG		1	3 UART	QSPI	12-bit	RTC	64	LQFP 100						3.3V	\$4.13
MCF52252C	V2	66	63		MAC	✓		32	256				4-ch.	4-ch., 32-bit	4-ch., 16-bit	2	1			Full Speed Device/Host/OTG		1	1	3 UART	QSPI	12-bit	RTC	64	LQFP 100	3.3V	\$4.38					
MCF52254	V2	80	76		MAC	✓		64	512				4-ch.	4-ch., 32-bit	4-ch., 16-bit	2	1			Full Speed Device/Host/OTG		1	3 UART	QSPI	12-bit	RTC	64	LQFP 100	3.3V	\$4.75						
MCF52254C	V2	66	63		MAC	✓		64	512				4-ch.	4-ch., 32-bit	4-ch., 16-bit	2	1			Full Speed Device/Host/OTG		1	1	3 UART	QSPI	12-bit	RTC	64	LQFP 100	3.3V	\$5.00					

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Part Number	Key Features	Core	Freq. (MHz)	MIPS @ Max Freq.	MMU and FPU	MAC/eMAC	HW Divide	Cache (KB)	SRAM (KB)	Flash (KB)	Memory Controller	EBI	DMA	GPT*	PWM	PIT	10/100 FEC	Encryption	USB	CAN	I ² C	UART/USART/PSC/SCI	SPI	ADC	Other	GPIO Max	Package	Operating Voltage	10K# FSRP Starting Price	Evaluation Board	Unit FSRP	Low-Cost Board	Unit FSRP	Production-Ready Module
MCF52255C	Single-Chip 10/100 Ethernet MAC, USB OTG (FS), 256-512 KB Flash, CAN, Encryption, Mini-FlexBus	V2	80	76		MAC	√		64	512			4-ch.	4-ch., 32-bit	4-ch., 16-bit	2	1	√	Full Speed Device/Host/OTG	1	1	3 UART	QSPI	12-bit	RTC	64	LQFP 100	3.3V	\$5.50	M52259EVB TWR-MCF5225X-KIT	\$299 \$119	M52259DEMOKIT TWR-MCF5225X	\$49 \$49	
MCF52256		V2	80	76		MAC	√		32	256			4-ch.	4-ch., 32-bit	4-ch., 16-bit	2	1		Full Speed Device/Host/OTG	1	1	3 UART	QSPI	12-bit	RTC, Mini-FlexBus	96	LQFP 144, MAPBGA 144	3.3V	\$4.54					
MCF52256C		V2	66	63		MAC	√		64	256			4-ch.	4-ch., 32-bit	4-ch., 16-bit	2	1		Full Speed Device/Host/OTG	1	1	3 UART	QSPI	12-bit	RTC, Mini-FlexBus	96	LQFP 144, MAPBGA 144	3.3V	\$4.79					
MCF52258		V2	80	76		MAC	√		64	512			4-ch.	4-ch., 32-bit	4-ch., 16-bit	2	1		Full Speed Device/Host/OTG	1	1	3 UART	QSPI	12-bit	RTC, Mini-FlexBus	96	LQFP 144, MAPBGA 144	3.3V	\$5.20					
MCF52258C		V2	66	63		MAC	√		64	512			4-ch.	4-ch., 32-bit	4-ch., 16-bit	2	1		Full Speed Device/Host/OTG	1	1	3 UART	QSPI	12-bit	RTC, Mini-FlexBus	96	LQFP 144, MAPBGA 144	3.3V	\$5.45					
MCF52259C		V2	80	76		MAC	√		64	512			4-ch.	4-ch., 32-bit	4-ch., 16-bit	2	1	√	Full Speed Device/Host/OTG	1	1	3 UART	QSPI	12-bit	RTC, Mini-FlexBus	96	LQFP 144, MAPBGA 144	3.3V	\$5.95					
MCF5280	256-512 KB Flash, 10/100 Ethernet MAC, CAN	V2	66, 80	76		eMAC	√	2K I/D	64		SDR SDRAM	√	4-ch.	4-ch., 32-bit 8-ch., 16-bit		4	1		1	1	3 UART	QSPI	10-bit		150	MAPBGA 256	3.3V	\$14.15	M5282EVBE	\$650	M5282ZIGBEEE M5282LITEE M5282LITEKITE	\$299 \$179 \$249		
MCF5281		V2	66, 80	76		eMAC	√	2K I/D	64	256	SDR SDRAM	√	4-ch.	4-ch., 32-bit 8-ch., 16-bit		4	1		1	1	3 UART	QSPI	10-bit		150	MAPBGA 256	3.3V	\$15.87						
MCF5282		V2	66, 80	76		eMAC	√	2K I/D	64	512	SDR SDRAM	√	4-ch.	4-ch., 32-bit 8-ch., 16-bit		4	1		1	1	3 UART	QSPI	10-bit		150	MAPBGA 256	3.3V	\$17.25						

Microprocessors (MPUs)

Part Number	Key Features	Core	Freq. (MHz)	MIPS @ Max Freq.	MMU and FPU	MAC/eMAC	HW Divide	Cache (KB)	SRAM (KB)	Flash (KB)	Memory Controller	EBI	DMA	GPT*	PWM	PIT	10/100 FEC	Encryption	USB	CAN	I ² C	UART/USART/PSC/SCI	SPI	ADC	Other	GPIO Max	Package	Operating Voltage	10K# FSRP Starting Price	Evaluation Board	Unit FSRP	Low-Cost Board	Unit FSRP	Production-Ready Module		
MCF5206E	Up to 54 MHz	V2	40, 54	50		MAC	√	4K I	8		EDO, FPM	√	2-ch.	2-ch., 16-bit							1	2 UART				QFP 160	3.3V	\$7.08	M5206EC3E	\$549						
MCF5207	Up to 166 MHz	V2	166	159		eMAC	√	8K I/D	16		DDR/SDR SDRAM	√	16-ch.	4-ch., 32-bit		2						1	3 UART	QSPI			LQFP 144, MAPBGA 144	1.5V, 3.3V (2.5V DDR)	\$5.02	M5208EVBE	\$349					
MCF5208	Up to 166 MHz, 10/100 Ethernet MAC	V2	166	159		eMAC	√	8K I/D	16		DDR/SDR SDRAM	√	16-ch.	4-ch., 32-bit		2	1					1	3 UART	QSPI			QFP 160, MAPBGA 196	1.5V, 3.3V (2.5V DDR)	\$6.54	M5208EVBE	\$349					

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MCF52274	Integrated LCD Controller with Touch Screen, USB OTG, CAN, 128K SRAM	V2	120	114		eMAC	✓	8K I/D	128		SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	2			Full Speed Device/ Host/ OTG	1	1	3 UART	DSPI	Touch Screen, 12-bit	SPI Boot Flash, Crossbar Switch	47	176 LQFP	1.5V, 1.8V, 2.5V, 3.3V	\$6.99	M52277EVB	\$449				
MCF52277		V2	160	159		eMAC	✓	8K I/D	128		SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	2			Full Speed Device/ Host/ OTG	1	1	3 UART	DSPI	Touch Screen, 12-bit	SPI Boot Flash, Crossbar Switch	55	MAPBGA 196	1.5V, 1.8V, 2.5V, 3.3V	\$5.99						
MCF5232	eTPU Coprocessor for Complex I/O and Timing Control, 10/100 Ethernet MAC, Encryption	V2	80, 100, 150	144		eMAC	✓	8K I/D	64		SDR SDRAM	✓	4-ch.	4-ch., 32-bit		4				1	1	3 UART	QSPI		16-ch. eTPU	79	QFP 160, MAPBGA 196	1.5V, 3.3V	\$10.07	M523XEVB	\$695	M5235BCCE M5235BCKKITE	\$180 \$250		
MCF5233		V2	100, 150	144		eMAC	✓	8K I/D	64		SDR SDRAM	✓	4-ch.	4-ch., 32-bit		4				2	1	3 UART	QSPI		32-ch. eTPU	79	MAPBGA 256	1.5V, 3.3V	\$13.59						
MCF5234		V2	100, 150	144		eMAC	✓	8K I/D	64		SDR SDRAM	✓	4-ch.	4-ch., 32-bit		4	1			1	1	3 UART	QSPI		16-ch. eTPU	81	MAPBGA 256	1.5V, 3.3V	\$13.09						
MCF5235		V2	100, 150	144		eMAC	✓	8K I/D	64		SDR SDRAM	✓	4-ch.	4-ch., 32-bit		4	1	✓		2	1	3 UART	QSPI		16-ch. eTPU	81	MAPBGA 256	1.5V, 3.3V	\$15.10						
MCF5249L	Flash Media I/F, SPDIF, CD-ROM E/C, ATA I/F, USB OTG (HS)	V2	120	107		eMAC	✓	8K I	96		SDR SDRAM	✓	4-ch.	2-ch., 16-bit							2	2 UART	QSPI	12-bit	IDE, Audio, I ² S	49	LQFP 144	1.8V, 3.3V	\$9.30	M5249C3E	\$649				
MCF5249		V2	140	125		eMAC	✓	8K I	96		SDR SDRAM	✓	4-ch.	2-ch., 16-bit							2	2 UART	QSPI	12-bit	IDE, Audio, I ² S	64	MAPBGA 160	1.8V, 3.3V	\$9.79						
MCF5251		V2	140	125		eMAC	✓	8K I	128		SDR SDRAM	✓	4-ch.	2-ch., 16-bit					High Speed On-the-Go	2	2	3 UART	QSPI	12-bit	IDE, Audio, I ² S, USB OTG (FS)	60	MAPBGA 225	1.8V, 3.3V	\$9.08	MCF5251EVBWR	\$950				
MCF5253	USB OTG (HS), Flash Media Interface, ATA, I ² S, CAN	V2	140	125		eMAC	✓	8K I	128		SDR SDRAM	✓	4-ch.	2-ch., 16-bit					High Speed On-the-Go	2	2	3 UART	QSPI	12-bit	IDE, I ² S	60	MAPBGA 225	1.2V, 3.3V	\$8.64	M5253EVB	\$680				
MCF5270	100 MHz, 10/100 Ethernet MAC	V2	100	96		eMAC	✓	8K I/D	64		SDR SDRAM	✓	4-ch.	4-ch., 32-bit		4	1				1	3 UART	QSPI			78	QFP 160, MAPBGA 196	1.5V, 3.3V	\$7.38	M5271EVB	\$649	M5270PROMOE M5270PRO	\$249 \$499	MOD5270	
MCF5271		V2	100	96		eMAC	✓	8K I/D	64		SDR SDRAM	✓	4-ch.	4-ch., 32-bit		4	1	✓			1	3 UART	QSPI			78	QFP 160, MAPBGA 196	1.5V, 3.3V	\$9.35						
MCF5272		V2	66	63		MAC	✓	1K I	4		SDR SDRAM	✓	2-ch.	4-ch., 16-bit	3-ch., 8-bit		1			Full Speed Device			2 UART	QSPI		PLIC, TDM Soft HDLC	48	MAPBGA 196	3.3V	\$8.71	M5272C3E	\$649			
MCF5274L	166 MHz, 2x 10/100 Ethernet MAC, Encryption, USB Device (FS)	V2	133, 166	159		eMAC	✓	16K I/D	64		DDR SDRAM	✓	4-ch.	4-ch., 32-bit	4-ch., 8-bit	4	1			Full Speed Device		1	3 UART	QSPI			53	MAPBGA 196	1.5V, 3.3V (2.5V DDR)	\$8.29	M5275EVB	\$649			
MCF5274		V2	133, 166	159		eMAC	✓	16K I/D	64		DDR SDRAM	✓	4-ch.	4-ch., 32-bit	4-ch., 8-bit	4	2			Full Speed Device		1	3 UART	QSPI			74	MAPBGA 256	1.5V, 3.3V (2.5V DDR)	\$10.31					
MCF5275L		V2	133, 166	159		eMAC	✓	16K I/D	64		DDR SDRAM	✓	4-ch.	4-ch., 32-bit	4-ch., 8-bit	4	1	✓		Full Speed Device		1	3 UART	QSPI			53	MAPBGA 196	1.5V, 3.3V (2.5V DDR)	\$10.31					
MCF5275		V2	133, 166	159		eMAC	✓	16K I/D	64		DDR SDRAM	✓	4-ch.	4-ch., 32-bit	4-ch., 8-bit	4	2	✓		Full Speed Device		1	3 UART	QSPI			73	MAPBGA 256	1.5V, 3.3V (2.5V DDR)	\$12.32					

Microprocessors (MPUs)

Part Number	Key Features	Core	Freq. (MHz)	MIPS @ Max Freq.	MMU and FPU	MAC/eMAC	HW Divide	Cache (KB)	SRAM (KB)	Flash (KB)	Memory Controller	EBI	DMA	GPT*	PWM	PIT	10/100 FEC	Encryption	USB	CAN	I ² C	UART/USART/PSC/SCI	SPI	ADC	Other	GPIO Max	Package	Operating Voltage	10K# FSRP Starting Price	Evaluation Board	Unit FSRP	Low-Cost Board	Unit FSRP	Production-Ready Module
MCF53010	Up to 240 MHz, 2x 10/100 Ethernet, USB OTG (FS), USB Host (FS), SSI, eSDHC, Audio Subsystem, 2x Smart Card I/F, 128 KB SRAM, Digital Voice Solution	V3	240	211		eMAC	✓	16K I/D	128		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	4	2		Full OTG		1	3 UART	DSPI		SSI, eSDHC, 2x Smart Card I/F, Audio Subsystem	61	FQFP 208	1.2V, 3.3V (1.8V MDDR, 2.5V DDR, 3.3V SDR)	\$7.99	M53015EVB M53017KIT	\$599 \$799			M53017 MOD
MCF53011		V3	240	211		eMAC	✓	16K I/D	128		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	4	2	✓	Full OTG		1	3 UART	DSPI		SSI, eSDHC, 2x Smart Card I/F, Audio Subsystem	61	FQFP 208	1.2V, 3.3V (1.8V MDDR, 2.5V DDR, 3.3V SDR)	\$8.99					
MCF53012		V3	240	211		eMAC	✓	16K I/D	128		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	4	2		Full OTG		1	3 UART	DSPI		SSI, eSDHC, 2x Smart Card I/F, Audio Subsystem, VoIP SW	61	FQFP 208	1.2V, 3.3V (1.8V MDDR, 2.5V DDR, 3.3V SDR)	\$9.99					
MCF53013		V3	240	211		eMAC	✓	16K I/D	128		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	4	2	✓	Full OTG		1	3 UART	DSPI		SSI, eSDHC, 2x Smart Card I/F, Audio Subsystem, VoIP SW	61	FQFP 208	1.2V, 3.3V (1.8V MDDR, 2.5V DDR, 3.3V SDR)	\$10.99					
MCF53014		V3	240	211		eMAC	✓	16K I/D	128		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	4	2		Full Host, Full OTG		1	3 UART	DSPI		SSI, eSDHC, 2x Smart Card I/F, Audio Subsystem	83	MAPBGA 256	1.2V, 3.3V (1.8V MDDR, 2.5V DDR, 3.3V SDR)	\$7.99					
MCF53015		V3	240	211		eMAC	✓	16K I/D	128		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	4	2	✓	Full Host, Full OTG		1	3 UART	DSPI		SSI, eSDHC, 2x Smart Card I/F, Audio Subsystem	83	MAPBGA 256	1.2V, 3.3V (1.8V MDDR, 2.5V DDR, 3.3V SDR)	\$8.99					
MCF53016		V3	240	211		eMAC	✓	16K I/D	128		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	4	2		Full Host, Full OTG		1	3 UART	DSPI		SSI, eSDHC, 2x Smart Card I/F, Audio Subsystem, VoIP SW	83	MAPBGA 256	1.2V, 3.3V (1.8V MDDR, 2.5V DDR, 3.3V SDR)	\$9.99					
MCF53017		V3	240	211		eMAC	✓	16K I/D	128		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	4	2	✓	Full Host, Full OTG		1	3 UART	DSPI		SSI, eSDHC, 2x Smart Card I/F, Audio Subsystem, VoIP SW	83	MAPBGA 256	1.2V, 3.3V (1.8V MDDR, 2.5V DDR, 3.3V SDR)	\$10.99					
MCF5307	Up to 90 MHz	V3	66, 90	75		MAC	✓	8K U	4		SDR SDRAM	✓	4-ch.	2-ch., 16-bit							1	2 UART				16	FQFP 208	3.3V	\$11.31	M5307C3E	\$539			
MCF5327	SVGA LCD, Ethernet, USB OTG (FS/HS), SSI, CAN, Encryption	V3	240	211		eMAC	✓	16K I/D	32		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	2-ch., 16-bit	4			Full Host, Full OTG		1	3 UART	QSPI		SVGA LCD, Crossbar Switch	64	MAPBGA 196	1.5V, 3.3V (2.5V DDR)	\$6.49	M5329EVBE	\$699			M5329AFE M5329BFE
MCF5328		V3	240	211		eMAC	✓	16K I/D	32		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	4	1		Full Host, Full/High** OTG		1	3 UART	QSPI		SVGA LCD, Crossbar Switch	94	MAPBGA 256	1.5V, 3.3V (2.5V DDR)	\$6.99					
MCF5329		V3	240	211		eMAC	✓	16K I/D	32		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	4	1	✓	Full Host, Full/High** OTG	1	1	3 UART	QSPI		SVGA LCD, Crossbar Switch	94	MAPBGA 256	1.5V, 3.3V (2.5V DDR)	\$7.49					

Microprocessors (MPUs)

Part Number	Key Features	Core	Freq. (MHz)	MIPS @ Max Freq.	MMU and FPU	MAC/eMAC	HW Divide	Cache (KB)	SRAM (KB)	Flash (KB)	Memory Controller	EBI	DMA	GPT*	PWM	PIT	10/100 FEC	Encryption	USB	CAN	ƒC	UART/USART/PSC/SCI	SPI	ADC	Other	GPIO Max	Package	Operating Voltage	10K# FSRP Starting Price	Evaluation Board	Unit FSRP	Low-Cost Board	Unit FSRP	Production-Ready Module				
MCF5372	Up to 240 MHz, Ethernet, USB OTG (FS/HS), SSI	V3	180	158		eMAC	✓	16K I/D	32		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	4	1				1	3 UART	QSPI		Crossbar Switch	46	QFP 160	1.5V, 3.3V (2.5V DDR)	\$5.99	M5373EVB	\$699							
MCF5372L		V3	240	211		eMAC	✓	16K I/D	32		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	4	1		Full Host, Full OTG		1	3 UART	QSPI		Crossbar Switch	62	MAPGBA 196	1.5V, 3.3V (2.5V DDR)	\$5.99									
MCF5373	Up to 240 MHz, Ethernet, USB OTG (FS/HS), SSI	V3	180	158		eMAC	✓	16K I/D	32		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	4	1	✓			1	3 UART	QSPI		Crossbar Switch	46	QFP 160	1.5V, 3.3V (2.5V DDR)	\$6.99									
MCF5373L		V3	240	211		eMAC	✓	16K I/D	32		DDR/SDR SDRAM	✓	16-ch.	4-ch., 32-bit	4-ch., 16-bit	4	1	✓	Full Host, Full OTG		1	3 UART	QSPI		Crossbar Switch	62	MAPGBA 196	1.5V, 3.3V (2.5V DDR)	\$6.99									
MCF5407	Up to 220 Mz	V4	162, 220	316		MAC	✓	16K I, 8K D	4		SDR SDRAM	✓	4-ch.	2-ch., 16-bit							1	1 UART, 1 USART	—	—	—	16	FQFP 208	1.8V, 3.3V	\$19.10	M5407C3E	\$649							
MCF51QU32	50 MHz, 32 KB FlexMemory, 12-bit ADC, 12-bit DAC	V1	50	50		eMAC	✓		8	32		✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.						3	2	2	12-bit	1K EEPROM, DAC, TSI	31	32 QFN, 44 LQFN	1.71V, 3.6V	\$0.98	TWR-MCF51QM-KIT	\$109	TWR-MCF51QM	\$69					
MCF51QU64		V1	50	50		eMAC	✓		16	64		✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.						3	2	2	12-bit	2K EEPROM, DAC, TSI	35	44 LQFN, 48 LQFP	1.71V, 3.6V	\$1.49									
MCF51QU128		V1	50	50		eMAC	✓		32	128		✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.						4	2	2	12-bit	2K EEPROM, DAC, TSI	48	44 LQFN, 64 LQFP, 64 LQFN	1.71V, 3.6V	\$1.64									
MCF51QH32	50 MHz, 32 KB FlexMemory, 16-bit ADC, 12-bit DAC	V1	50	50		eMAC	✓		8	32		✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.						3	2	2	16-bit	1K EEPROM, DAC, TSI	31	32 QFN, 44 LQFN	1.71V, 3.6V	\$1.30									
MCF51QH64		V1	50	50		eMAC	✓		16	64		✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.						3	2	2	16-bit	2K EEPROM, DAC, TSI	35	44 LQFN, 48 LQFP	1.71V, 3.6V	\$1.57									
MCF51QH128		V1	50	50		eMAC	✓		32	128		✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.						4	2	2	16-bit	2K EEPROM, DAC, TSI	48	44 LQFN, 64 LQFP, 64 LQFN	1.71V, 3.6V	\$1.73									
MCF51QF32	50 MHz, 32 KB FlexMemory, 12-bit ADC, 12-bit DAC, Hardware Encryption	V1	50	50		eMAC	✓		8	32		✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.			✓			3	2	2	12-bit	1K EEPROM, DAC, TSI	31	32 QFN, 44 LQFN	1.71V, 3.6V	\$1.33									
MCF51QF64		V1	50	50		eMAC	✓		16	64		✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.			✓			3	2	2	12-bit	2K EEPROM, DAC, TSI	35	44 LQFN, 48 LQFP	1.71V, 3.6V	\$1.61									
MCF51QF128		V1	50	50		eMAC	✓		32	128		✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.			✓			4	2	2	12-bit	2K EEPROM, DAC, TSI	48	44 LQFN, 64 LQFP, 64 LQFN	1.71V, 3.6V	\$1.78									
MCF51QM32	50 MHz, 32 KB FlexMemory, 16-bit ADC, 12-bit DAC, Hardware Encryption	V1	50	50		eMAC	✓		8	32		✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.			✓			3	2	2	16-bit	1K EEPROM, DAC, TSI	31	32 QFN, 44 LQFN	1.71V, 3.6V	\$1.40									
MCF51QM64		V1	50	50		eMAC	✓		16	64		✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.			✓			3	2	2	16-bit	2K EEPROM, DAC, TSI	35	44 LQFN, 48 LQFP	1.71V, 3.6V	\$1.69									
MCF51QM128		V1	50	50		eMAC	✓		32	128		✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.			✓			4	2	2	16-bit	2K EEPROM, DAC, TSI	48	44 LQFN, 64 LQFP, 64 LQFN	1.71V, 3.6V	\$1.86	TWR-MCF51JF-KIT	\$119	TWR-MCF51JF	\$79					

Microprocessors (MPUs)

Part Number	Key Features	Core	Freq. (MHz)	MIPS @ Max Freq.	MMU and FPU	MAC/eMAC	HW Divide	Cache (KB)	SRAM (KB)	Flash (KB)	Memory Controller	EBI	DMA	GPT*	PWM	PIT	10/100 FEC	Encryption	USB	CAN	I ² C	UART/USART/PSC/SCI	SPI	ADC	Other	GPIO Max	Package	Operating Voltage	10K# FSRP Starting Price	Evaluation Board	Unit FSRP	Low-Cost Board	Unit FSRP	Production-Ready Module
MCF51JU32	50 MHz, 32 KB FlexMemory, USB H/D/O with DCD and Regulator, I ² S/SAI, 12-bit ADC, 12-bit DAC	V1	50	50		eMAC	✓	8	32			✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.				Full Speed Device/Host/OTG		3	2	2	12-bit	1K EEPROM, DAC, TSI	31	32 QFN, 44 LQFN	1.71V, 3.6V	\$1.42	TWR-MCF51JF-KIT	\$119	TWR-MCF51JF	\$79	
MCF51JU64		V1	50	50		eMAC	✓	16	64			✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.				Full Speed Device/Host/OTG		3	2	2	12-bit	2K EEPROM, DAC, TSI	35	44 LQFN, 48 LQFP	1.71V, 3.6V	\$1.71					
MCF51JU128		V1	50	50		eMAC	✓	32	128			✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.				Full Speed Device/Host/OTG		2	1	4 PSC	DSPI	PCI	93	PBGA 388	1.5V, 3.3V (2.5V DDR)	\$1.89					
MCF51JF32	50 MHz, 32 KB FlexMemory, USB H/D/O with DCD and Regulator, I ² S/SAI, 12-bit ADC, 12-bit DAC, Hardware Encryption	V1	50	50		eMAC	✓	8	32			✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.			✓	Full Speed Device/Host/OTG		3	2	2	12-bit	1K EEPROM, DAC, TSI	31	32 QFN, 44 LQFN	1.71V, 3.6V	\$1.53	TWR-MCF51JF-KIT	\$119	TWR-MCF51JF	\$79	
MCF51JF64		V1	50	50		eMAC	✓	16	64			✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.			✓	Full Speed Device/Host/OTG		3	2	2	12-bit	2K EEPROM, DAC, TSI	35	44 LQFN, 48 LQFP	1.71V, 3.6V	\$1.85					
MCF51JF128		V1	50	50		eMAC	✓	32	128			✓	4-ch.	1 MTIM, 2 LPT	1x1-ch., 1x6-ch.			✓	Full Speed Device/Host/OTG		4	2	2	12-bit	2K EEPROM, DAC, TSI	48	44 LQFN, 64 LQFP, 64 LQFN	1.71V, 3.6V	\$2.04					
MCF54415	250 MHz, 2x 10/100 Ethernet, Embedded Layer 2 Switch, ADC + DAC, NAND Flash Controller	V4m	250	525	MMU	eMAC		8K I/D	64		DDR2	✓	64-ch.	4x 32-bit	8-ch.	4	2		Full Speed Device/Host/OTG	2	6	10 UART	2	12-bit	Ethernet L2 Switch, 2x SSI, DAC	87	MAPBGA 256	1.2V Core, 3.3V I/O, 1.8-3.3V External Memory Bus	\$5.99	TWR-MCF5441X-KIT	\$259	TWR-MCF5441X	\$139	
MCF54416		V4m	250	525	MMU	eMAC		8K I/D	64		DDR2	✓	64-ch.	4x 32-bit	8-ch.	4	2		Full Speed Device/Host/OTG	2	6	10 UART	2	12-bit	Ethernet L2 Switch, 2x SSI, DAC	87	MAPBGA 256	1.2V Core, 3.3V I/O, 1.8-3.3V External Memory Bus	\$6.99					
MCF54417		V4m	250	525	MMU	eMAC		8K I/D	64		DDR2	✓	64-ch.	4x 32-bit	8-ch.	4	2	✓	Full Speed Device/Host/OTG	2	6	10 UART	2	12-bit	Ethernet L2 Switch, 2x SSI, DAC	87	MAPBGA 256	1.2V Core, 3.3V I/O, 1.8-3.3V External Memory Bus	\$8.49					
MCF54418		V4m	250	525	MMU	eMAC		8K I/D	64		DDR2	✓	64-ch.	4x 32-bit	8-ch.	4	2	✓	Full Speed Device/Host/OTG	2	6	10 UART	2	12-bit	Ethernet L2 Switch, 2x SSI, DAC	87	MAPBGA 256	1.2V Core, 3.3V I/O, 1.8-3.3V External Memory Bus	\$9.49					

Microprocessors (MPUs)

Part Number	Key Features	Core	Freq. (MHz)	MIPS @ Max Freq.	MMU and FPU	MAC/eMAC	HW Divide	Cache (KB)	SRAM (KB)	Flash (KB)	Memory Controller	EBI	DMA	GPT*	PWM	PIT	10/100 FEC	Encryption	USB	CAN	I ² C	UART/USART/PSC/SCI	SPI	ADC	Other	GPIO Max	Package	Operating Voltage	10K# FSRP Starting Price	Evaluation Board	Unit FSRP	Low-Cost Board	Unit FSRP	Production-Ready Module	
MCF54450	Up to 266 MHz, MMU, PCI, ATA, 2x 10/100 Ethernet, USB OTG (HS), Encryption	V4m	180, 240	370	MMU	eMAC	✓	16K I/D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 32-bit			1		Full Host, Full/High** OTG		1	3 UART	DSPI		SSI, SBF	93	MAPBGA 256	1.5V, 3.3V (1.8V/2.5V DDR)	\$7.95	M54455EVB	\$850	M54451EVB	\$299		
MCF54451		V4m	180, 240	370	MMU	eMAC	✓	16K I/D	32		DDR2/DDR, SDRAM	✓	16-ch.	4ch., 32-bit			1	✓	Full Host, Full/High** OTG		1	3 UART	DSPI		SSI, SBF	93	MAPBGA 256	1.5V, 3.3V (1.8V/2.5V DDR)	\$8.95						
MCF54452		V4m	200, 266	410	MMU	eMAC	✓	16K I/D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 32-bit			2		Full Host, Full/High** OTG		1	3 UART	DSPI		SSI, SBF, PCI	132	PTEPBGA 360	1.5V, 3.3V (1.8V/2.5V DDR)	\$9.95						
MCF54453		V4m	200, 266	410	MMU	eMAC	✓	16K I/D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 32-bit			2	✓	Full Host, Full/High** OTG		1	3 UART	DSPI		SSI, SBF, PCI	132	PTEPBGA 360	1.5V, 3.3V (1.8V/2.5V DDR)	\$10.95						
MCF54454		V4m	200, 266	410	MMU	eMAC	✓	16K I/D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 32-bit			2		Full Host, Full/High** OTG		1	3 UART	DSPI		SSI, SBF, PCI, ATA	132	PTEPBGA 360	1.5V, 3.3V (1.8V/2.5V DDR)	\$12.95						
MCF54455		V4m	200, 266	410	MMU	eMAC	✓	16K I/D	32		DDR2/DDR, SDRAM	✓	16-ch.	4ch., 32-bit			2	✓	Full Host, Full/High** OTG		1	3 UART	DSPI		SSI, SBF, PCI, ATA	132	PTEPBGA 360	1.5V, 3.3V (1.8V/2.5V DDR)	\$13.95						
MCF5470	Up to 266 MHz, MMU, PCI, 2x 10/100 Ethernet, Encryption	V4e	200	308	✓	eMAC	✓	32K I, 32K D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 16-bit			2	2			1	4 PSC	DSPI		PCI	93	PBGA 388	1.5V, 3.3V (2.5V DDR)	\$16.55	M5475EVB	\$850	M5474LITEKITE	\$350	M5475CFEE	
MCF5471		V4e	200	308	✓	eMAC	✓	32K I, 32K D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 16-bit			2	2	✓		1	4 PSC	DSPI		PCI	93	PBGA 388	1.5V, 3.3V (2.5V DDR)	\$19.48						
MCF5472		V4e	200	308	✓	eMAC	✓	32K I, 32K D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 16-bit			2	1			1	4 PSC	DSPI		PCI	77	PBGA 388	1.5V, 3.3V (2.5V DDR)	\$16.55						
MCF5473		V4e	200	308	✓	eMAC	✓	32K I, 32K D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 16-bit			2	1	✓		1	4 PSC	DSPI		PCI	77	PBGA 388	1.5V, 3.3V (2.5V DDR)	\$19.48						
MCF5474		V4e	266	410	✓	eMAC	✓	32K I, 32K D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 16-bit			2	2			1	4 PSC	DSPI		PCI	93	PBGA 388	1.5V, 3.3V (2.5V DDR)	\$18.56						
MCF5475		V4e	266	410	✓	eMAC	✓	32K I, 32K D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 16-bit			2	2	✓		1	4 PSC	DSPI		PCI	93	PBGA 388	1.5V, 3.3V (2.5V DDR)	\$21.49						
MCF5480	Up to 266 MHz, MMU, PCI, 2x 10/100 Ethernet, Encryption, CAN	V4e	166	256	✓	eMAC	✓	32K I, 32K D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 16-bit			2	2		2	1	4 PSC	DSPI		PCI	93	PBGA 388	1.5V, 3.3V (2.5V DDR)	\$19.48	M5485EVB	\$850	M5484LITEKITE	\$350	M5485AFEE M5485BFEE M5485GFEE M5485HFEE	
MCF5481		V4e	166	256	✓	eMAC	✓	32K I, 32K D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 16-bit			2	2	✓		2	1	4 PSC	DSPI		PCI	93	PBGA 388	1.5V, 3.3V (2.5V DDR)						\$22.41
MCF5482		V4e	166	256	✓	eMAC	✓	32K I, 32K D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 16-bit			2	1			2	1	4 PSC	DSPI		PCI	77	PBGA 388	1.5V, 3.3V (2.5V DDR)						\$19.48
MCF5483		V4e	166	256	✓	eMAC	✓	32K I, 32K D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 16-bit			2	1	✓		2	1	4 PSC	DSPI		PCI	77	PBGA 388	1.5V, 3.3V (2.5V DDR)						\$22.41
MCF5484		V4e	200	308	✓	eMAC	✓	32K I, 32K D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 16-bit			2	2			2	1	4 PSC	DSPI		PCI	93	PBGA 388	1.5V, 3.3V (2.5V DDR)						\$22.93
MCF5485		V4e	200	308	✓	eMAC	✓	32K I, 32K D	32		DDR2/DDR, SDRAM	✓	16-ch.	4-ch., 16-bit			2	2	✓		2	1	4 PSC	DSPI		PCI	93	PBGA 388	1.5V, 3.3V (2.5V DDR)						\$25.85

Software and Development Tools for ColdFire/ColdFire+ Families

Evaluation Boards and Development Kits			
Achronix	achronix.com	Intec Automation	steroidmicros.com
Arcturus	arcturusnetworks.com	Logic Product Development	logicpd.com
Axiom	axman.com	NetBurner	netburner.com
Electro	elmicro.com	P&E Microcomputer Systems	pemicro.com
EMAC	emacinc.com	Phytec	phytec.com
Freescale Semiconductor	freescale.com	SenTec Elecktronik	sentec-elecktronik.de
FSI Systems	fsisys.com	SofTec	softemicro.com
Future	my-boardclub.com	Tower	freescale.com/Tower
Real-Time Operating Systems (RTOS)			
Blunk Microsystems	blunkmicro.com	Green Hills Software, Inc.	ghs.com
CMX Systems	cmx.com	Kadak	kadak.com
CodeSourcery	codesourcery.com	Linux/μClinux	freescale.com/linux
eCosCentric	ecoscentric.com	Mentor Graphics/ Accelerated Technology	acceleratedtechnology.com
Embedded Access, Inc. Freescale MQX Engineering Design Services and Support	embedded-access.com	Micrium	micrium.com
Emlix	emlix.com	NetBurner	netburner.com
ENEA	enea.com	Quadros Systems, Inc.	quadros.com
ExpressLogic	rtos.com	Segger	segger.com
Euros Embedded	euros-embedded.com	Timesys	timesys.com
FreeRTOS	freertos.org	Unicoi Systems	unicoi.com
Freescale MQX	freescale.com/MQX		
GNU	gnu.org		
Compilers, Simulators, Debuggers			
Altium	altium.com	Forth	forth.com
Ashware	ashware.com	Green Hills Software, Inc.	ghs.com
Avocet Systems	avocetsystems.com	IAR	iar.com
Blunk Microsystems	blunkmicro.com	Intec Automation	steroidmicros.com
Byte Craft Limited	bytecraft.com	Lauterbach	lauterbach.com
CodeWarrior Tools	codewarrior.com	Micrium	micrium.com
Cosmic	cosmic-software.com	NetBurner	netburner.com
Crossware	crossware.com	P&E Microcomputer Systems	pemicro.com
Elmicro	elmicro.com/en/products.html	Wind River Systems Inc.	windriver.com
Stacks, Drivers, Translators			
Blunk Microsystems	blunkmicro.com		
CMX Systems	cmx.com	Micrium	micrium.com
Domologic (LON)	domologic.de	Micro APL	microapl.com
Embedded Access, Inc. Freescale MQX Engineering Design Services and Support	embedded-access.com	InterNiche Technologies	iniche.com
ExpressLogic	rtos.com	Ixxat	ixxat.com

Stacks, Drivers, Translators (continued)			
Freescale MQX	freescale.com/mqx	Quadros Systems, Inc.	quadros.com
Green Hills Software, Inc.	ghs.com	Treck	treck.com
IAR	iar.com	uTasker	utasker.com
NetBurner	netburner.com		
Specialized Tools			
Allgo Embedded Systems (Audio/Video Codec)	allogosystems.com	Micro APL (ColdFire Initialization Tool)	microapl.com
Arcturus (Industrial Digital Intercom-VoIP)	arcturus.com	Monebo (Medical)	monebo.com
Ashware Inc. (eTPU)	ashware.com	Segger (GUI)	segger.com
Byte Craft Limited (eTPU)	bytecraft.com	Nano SSL/SSH (Security)	freescale.com
Euros Embedded (eTPU)	euros-embedded.com	Swell Software (GUI)	swellsoftware.com
Freescale (eTPU)	freescale.com		

Acronyms

ADC	Analog-to-Digital Converter	IDE	Integrated Drive Electronics
BDM	Background Debug Module	JTAG	Joint Test Action Group
CAN	Controller Area Network	KB	Kilobytes
ch.	Channel	LCD	Liquid Crystal Display
Crypto	Hardware-Accelerated Encryption	MAC/eMAC	(Enhanced) Multiplier-Accumulator
DMA	Direct Memory Access	MIPS	Million Instructions Per Second
DSPI	DMA SPI	MMU	Memory Management Unit
EBI	External Bus Interface	OTG	On-The-Go
EDO	Extended Data Output	PCI	Peripheral Component
EPHY	Ethernet Physical Layer	PIT	Periodic Interrupt Timer
eTPU	enhanced Timing Processor Unit	PLIC	Physical Layer Interface Controller
FEC	Fast Ethernet Controller	PSC	Programmable Serial Controller
FPM	Fast Page Mode	PWM	Pulse Width Modulation
FPU	Floating Point Unit	QSPI	Queued Serial Peripheral Interface
FREQ	Frequency/Speed	RTC	Real-Time Clock
FSRP	Freescale Suggested Resale Price	SPI	Serial Peripheral Interface
GPIO	General Purpose Input/Output	SVGA	Super Video Graphic Array
GPT	General Purpose Timer	TDM	Time Division Multiplex
HDLC	High-Level Data Link Control	UART/USART	Universal (Synchronous) Asynchronous Receiver Transmitter
HW Divide	Hardware Divide	ULPI	UTMI Low Pin Interface
I/D/U Cache	Instruction/Data/Unified Cache	USB	Universal Serial Bus
I ² C	Inter Integrated Circuit		
I ² S	Inter-IC Sound		

For more information about ColdFire/ColdFire+ family products, please visit freescale.com/ColdFire and freescale.com/ColdFire+

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