

FREESCALE Flexis™ Microcontroller Series



MCU / MPU / DSP

Freescale

This product is RoHS compliant.

Freescale's Flexis Series Microcontrollers provide the industry's first roadmap for 8- and 32-bit compatible architectures. From the S08 controllers to the full-featured ColdFire® devices, the Flexis Series is a range of compatible MCUs sharing tools and peripherals to ease your design process and accelerate your time to market. This means that you can move from one device to the next compatible device, from the low end to the high end.

FLEXIS AC FAMILY - S08AC 8-BIT LARGE APPLIANCE / INDUSTRIAL MCU's

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	Freescale Part No.	Package	Internal Flash (Bytes)	Internal RAM (Bytes)	Serial Interface Type	Bus Freq. (MHz)	Timer Channels	Supply Voltage (Max.)	I/O Pins	ADC	Price Each			
											1	25	50	100
841-MC9S08AC8CFGE	MC9S08AC8CFGE	LQFP 44	8K	700	I2C, SCI, SPI	20	4, 2, 2	5.5	34	8-ch. / 10-bit	2.97	2.79	2.43	1.74
841-MC9S08AC8CFJE	MC9S08AC8CFJE	LQFP 32	8K	700	I2C, SCI, SPI	20	2, 2	5.5	22	6-ch. / 10-bit	2.97	2.64	2.44	2.04
841-MC9S08AC16CFDE	MC9S08AC16CFDE	QFN 48 EP	16K	1000	I2C, SCI, SPI	20	4, 2	5.5	38	8-ch. / 10-bit	3.28	3.09	2.86	1.93
841-MC9S08AC16CFGE	MC9S08AC16CFGE	LQFP 44	16K	1000	I2C, SCI, SPI	20	4, 2, 2	5.5	34	8-ch. / 10-bit	3.19	3.00	2.60	1.87
841-MC9S08AC16CFJE	MC9S08AC16CFJE	LQFP 32	16K	1000	I2C, SCI, SPI	20	2	5.5	22	6-ch. / 10-bit	3.01	2.83	2.62	1.77
841-MC9S08AC16MFGE	MC9S08AC16MFGE	LQFP 44	16K	1000	I2C, SCI, SPI	20	4, 2, 2	5.5	34	8-ch. / 10-bit	4.52	2.88	2.85	2.78
841-MC9S08AC32CFDE	MC9S08AC32CFDE	QFN 48 EP	32000	2000	I2C, SCI, SPI	20	4, 2, 2	5.5	38	8-ch. / 10-bit	3.72	3.50	3.40	2.19
841-MC9S08AC32CFGE	MC9S08AC32CFGE	LQFP 44	32000	2000	I2C, SCI, SPI	20	4, 2, 2	5.5	34	8-ch. / 10-bit	3.63	3.42	3.16	2.13
841-MC9S08AC32CFJE	MC9S08AC32CFJE	LQFP 32	32000	2000	I2C, SCI, SPI	20	2, 2	5.5	22	6-ch. / 10-bit	3.56	3.33	3.08	2.09
841-MC9S08AC32CFUE	MC9S08AC32CFUE	QFP 64	32000	2000	I2C, SCI, SPI	20	6, 2	5.5	54	16-ch. / 10-bit	3.98	3.74	3.47	2.34
841-MC9S08AC32CPUE	MC9S08AC32CPUE	LQFP 64	32000	2000	I2C, SCI, SPI	20	6, 2, 2	5.5	54	16-ch. / 10-bit	4.05	3.81	3.73	2.38
841-MC9S08AC48CFDE	MC9S08AC48CFDE	QFN 48 EP	48K	2K	I2C, SCI, SPI	20	4, 2, 2	5.5	38	8-ch. / 10-bit	4.08	3.82	3.36	2.80
841-MC9S08AC48CFGE	MC9S08AC48CFGE	LQFP 44	48K	2K	I2C, SCI, SPI	20	4, 2, 2	5.5	34	8-ch. / 10-bit	3.78	3.55	2.56	2.22
841-MC9S08AC48CFJE	MC9S08AC48CFJE	LQFP 32	48000	2000	I2C, SCI, SPI	20	2, 2	5.5	22	6-ch. / 10-bit	5.03	3.52	3.46	3.22
841-MC9S08AC48CPUE	MC9S08AC48CPUE	LQFP 64	48000	2000	I2C, SCI, SPI	20	6, 2, 2	5.5	54	16-ch. / 10-bit	4.90	3.43	3.36	3.13
841-MC9S08AC60CFDE	MC9S08AC60CFDE	QFN 48 EP	60000	2000	I2C, SCI, SPI	20	4, 2, 2	5.5	38	8-ch. / 10-bit	4.40	2.81	2.77	2.67
841-MC9S08AC60CFGE	MC9S08AC60CFGE	LQFP 44	60000	2000	I2C, SCI, SPI	20	4, 2, 2	5.5	34	8-ch. / 10-bit	3.91	3.68	3.20	2.30
841-MC9S08AC60CFJE	MC9S08AC60CFJE	LQFP 32	60000	2000	I2C, SCI, SPI	20	2, 2	5.5	22	6-ch. / 10-bit	5.08	4.78	3.29	2.98
841-MC9S08AC60CFUE	MC9S08AC60CFUE	QFP 64	60000	2000	I2C, SCI, SPI	20	6, 2, 2	5.5	54	16-ch. / 10-bit	4.27	4.11	3.31	2.57
841-MC9S08AC60CPUE	MC9S08AC60CPUE	LQFP 64	60000	2000	I2C, SCI, SPI	20	6, 2, 2	5.5	54	16-ch. / 10-bit	4.27	4.02	3.17	2.51
841-MC9S08AC60MPUE	MC9S08AC60MPUE	LQFP 64	60K	2K	I2C, SCI, SPI	20	6, 2, 2	5.5	54	10-bit / 16-ch	6.40	4.09	4.04	3.86
841-MC9S08AC96CFGE	MC9S08AC96CFGE	LQFP 44	96K	6K	I2C, SCI, SPI	20	-	5	38	8-ch. / 10-bit	5.07	4.50	4.17	3.48
841-MC9S08AC96CFUE	MC9S08AC96CFUE	QFP 64	96K	6K	I2C, SCI, SPI	20	-	5	54	16-ch. / 10-bit	5.44	4.83	4.48	3.73
841-MC9S08AC96CLKE	MC9S08AC96CLKE	LQFP 80	96K	6K	I2C, SCI, SPI	20	-	5	70	16-ch. / 10-bit	5.61	4.99	4.62	3.85
841-MC9S08AC128CFGE	MC9S08AC128CFGE	LQFP 44	128000	8000	I2C, SCI, SPI	20	6, 6, 2	5	34	16-ch. / 10-bit	5.15	4.85	4.39	3.03
841-MC9S08AC128CFUE	MC9S08AC128CFUE	QFP 64	128000	8000	I2C, SCI, SPI	20	6, 6, 2	5	54	16-ch. / 10-bit	5.52	5.20	4.81	3.25
841-MC9S08AC128CLKE	MC9S08AC128CLKE	LQFP 80	128000	8000	I2C, SCI, SPI	20	6, 6, 2	5	69	16-ch. / 10-bit	5.71	5.37	4.85	3.35

FLEXIS AG FAMILY - MCF51AG 32-BIT V1 COLD-FIRE® MCU'S

PRODUCT NEW

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	Freescale Part No.	Package	Internal Flash (Bytes)	Internal RAM (Bytes)	Serial Interface Type	Bus Freq. (MHz)	Timer Channels	Supply Voltage (Max.)	I/O Pins	ADC	1	25	50	100
841-MCF51AG128CLF	MCF51AG128CLF	LQFP-48	128k	16k	SCI, SPI	25	14	5.5	39	12 ch. / 12-bit	6.89	5.01	4.86	4.72
841-MCF51AG128CLH	MCF51AG128CLH	LQFP-64	128k	16k	I2C, SCI, SPI	25	14	5.5	53	19 ch. / 12-bit	7.38	6.28	5.79	5.58
841-MCF51AG128CLK	MCF51AG128CLK	LQFP-80	128k	16k	I2C, SCI, SPI	25	14	5.5	69	24 ch. / 12-bit	7.78	6.61	6.10	5.88
841-MCF51AG128CQH	MCF51AG128CQH	QFP-64	128k	16k	I2C, SCI, SPI	25	14	5.5	53	19 ch. / 12-bit	7.49	6.37	5.87	5.66
841-MCF51AG128VLF	MCF51AG128VLF	LQFP-48	128k	16k	-	25	-	5.5	39	-	7.24	6.15	5.67	5.47
841-MCF51AG128VLH	MCF51AG128VLH	LQFP-64	128k	16k	I2C, SCI, SPI	25	14	5.5	53	19 ch. / 12-bit	7.76	6.60	6.08	5.86
841-MCF51AG128VLK	MCF51AG128VLK	LQFP-80	128k	16k	I2C, SCI, SPI	25	14	5.5	69	24 ch. / 12-bit	8.18	6.95	6.41	6.17
841-MCF51AG128VQH	MCF51AG128VQH	QFP-64	128k	16k	I2C, SCI, SPI	25	14	5.5	53	19 ch. / 12-bit	7.84	6.67	6.15	5.92
841-MCF51AG96CLF	MCF51AG96CLF	LQFP-48	96k	16k	-	25	-	5.5	39	-	6.66	5.66	5.22	5.03
841-MCF51AG96CLH	MCF51AG96CLH	LQFP-64	96k	16k	I2C, SCI, SPI	25	14	5.5	53	19 ch. / 12-bit	7.01	5.96	5.49	5.29
841-MCF51AG96CLK	MCF51AG96CLK	LQFP-80	96k	16k	I2C, SCI, SPI	25	14	5.5	69	19 ch. / 12-bit	7.36	6.26	5.77	5.56
841-MCF51AG96CQH	MCF51AG96CQH	QFP-64	96k	16k	I2C, SCI, SPI	25	14	5.5	53	19 ch. / 12-bit	7.09	6.03	5.56	5.36
841-MCF51AG96VLF	MCF51AG96VLF	LQFP-48	96k	16k	-	25	-	5.5	39	-	7.01	5.96	5.49	5.29
841-MCF51AG96VLH	MCF51AG96VLH	LQFP-64	96k	16k	I2C, SCI, SPI	25	14	5.5	53	19 ch. / 12-bit	7.34	6.24	5.75	5.55
841-MCF51AG96VLK	MCF51AG96VLK	LQFP-80	96k	16k	I2C, SCI, SPI	25	14	5.5	69	24 ch. / 12-bit	7.74	6.58	6.06	5.84
841-MCF51AG96VQH	MCF51AG96VQH	QFP-64	96k	16k	I2C, SCI, SPI	25	14	5.5	53	19 ch. / 12-bit	7.47	6.35	5.85	5.64

FLEXIS JE FAMILY

PRODUCT NEW

For quantities of 250 and up, call for quote.

MCF51JE 32-Bit V1 Coldfire® USB MCU's											1	25	50	100
841-MCF51JE128CLK	MCF51JE128CLK	LQFP-80	128k	32k	SPI, SCI, I2C, USB	25	8	3.6	47	12 ch. / 12-bit	9.81	8.72	8.08	6.73
841-MCF51JE256CML	MCF51JE256CML	MAPBGA-104	256k	32k	SPI, SCI, I2C, USB	25	8	3.6	69	12 ch. / 12-bit	8.04	6.46	6.27	6.09
S08JE 8-Bit USB MCU's											1	25	50	100
841-MC9S08JE128CLH	MC9S08JE128CLH	LQFP-64	128	12	SCI, SPI, I2C	20	6	3.8	33	12 ch. / 12-bit	5.83	4.55	4.41	4.29
841-MC9S08JE128CLK	MC9S08JE128CLK	LQFP-80	128	12	SCI, SPI, I2C	20	8	3.8	46	12 ch. / 12-bit	5.93	4.31	4.19	4.07

FLEXIS JM FAMILY

The S08JM family extends Freescale's 8-bit embedded USB controller family with up to 60 Kbytes of Flash memory, a full speed USB 2.0 device controller and a 12-channel, 12-bit analog-to-digital converter. The S08JM family also has several system protection features, such as low voltage detect and a Computer Operating Property (COP) module. The S08JM family devices, are supported by the Freescale USB-LITE Stack by CMX, providing a direct migration path to high performing USB microcontrollers

For quantities of 250 and up, call for quote.

S08JM 8-Bit USB MCU's											1	25	50	100
841-MC9S08JM8CGT	MC9S08JM8CGT	QFN 48 EP	8K	1K	SPI, I2C, SCI, USB	24	4, 2	5.5	37	12-bit / 8-ch	3.57	3.17	2.94	2.45
841-MC9S08JM8CLC	MC9S08JM8CLC	LQFP 32	8K	1K	SPI, I2C, SCI, USB	24	2	5.5	21	12-bit / 4-ch	3.32	2.95	2.73	2.28
841-MC9S08JM8CLD	MC9S08JM8CLD	LQFP 44	8K	1K	SPI, I2C, SCI, USB	24	4, 2	5.5	33	12-bit / 8-ch	3.44	3.05	2.83	2.36
841-MC9S08JM16CGT	MC9S08JM16CGT	QFN 48 EP	16K	1K	SCI, SPI, I2C, USB	24	4, 2	5.5	37	12-bit / 8-ch	4.52	3.04	2.96	2.86
841-MC9S08JM16CLC	MC9S08JM16CLC	LQFP 32	16K	1K	SPI, I2C, SCI, USB	24	2	5.5	21	12-bit / 4-ch	3.42	3.04	2.81	2.34
841-MC9S08JM16CLD	MC9S08JM16CLD	LQFP 44	16K	1K	SPI, I2C, SCI, USB	24	4, 2	5.5	33	12-bit / 8-ch	3.46	3.24	3.00	2.50
841-MC9S08JM32CGT	MC9S08JM32CGT	QFN 48	32768	3K	SPI, I2C, SCI, USB 2.0	24	4, 2	5.5	37	12-bit / 12-ch	3.78	3.38	3.10	2.22
841-MC9S08JM32CLD	MC9S08JM32CLD	LQFP 44	32768	3K	SPI, I2C, SCI, USB 2.0	24	4, 2	5.5	33	12-bit / 12-ch	3.74	3.52	3.26	2.20
841-MC9S08JM32CLH	MC9S08JM32CLH	LQFP 64	32768	3K	SPI, I2C, SCI, USB 2.0	24	6, 2	5.5	51	12-bit / 12-ch	3.89	3.66	2.98	2.28
841-MC9S08JM32CQH	MC9S08JM32CQH	QFP 64	32768	3K	SPI, I2C, SCI, USB 2.0	24	6, 2	5.5	51	12-bit / 12-ch	3.89	3.66	2.98	2.28
841-MC9S08JM60CGT	MC9S08JM60CGT	QFN 48	60912	4K	SPI, I2C, SCI, USB 2.0	24	4, 2	5.5	37	12-bit / 12-ch	5.28	4.97	4.60	3.11
841-MC9S08JM60CLD	MC9S08JM60CLD	LQFP 44	60912	4K	SPI, I2C, SCI, USB 2.0	24	4, 2	5.5	33	12-bit / 12-ch	5.17	4.87	4.51	3.04
841-MC9S08JM60CLH	MC9S08JM60CLH	LQFP 64	60912	4K	SPI, I2C, SCI, USB 2.0	24	6, 2	5.5	51	12-bit / 12-ch	5.45	5.13	4.75	3.20
841-MC9S08JM60CQH	MC9S08JM60CQH	QFP 64	60912	4K	SPI, I2C, SCI, USB 2.0	24	6, 2	5.5	51	12-bit / 12-ch	5.45	5.13	4.75	3.20
MCF51JM 32-Bit V1 Coldfire® USB MCU's											1	25	50	100
841-MCF51JM32VLD	MCF51JM32VLD	LQFP 44	32K	16K	SCI, SPI, I2C, USB	25	4, 2	5.5	33	12-bit / 12-ch	4.10	3.64	3.37	2.81
841-MCF51JM64VLD	MCF51JM64VLD	LQFP 44	64000	8000	SCI, SPI, I2C, USB, CAN	24	4, 2	5.5	33	8-ch / 12-bit	5.76	5.42	4.41	3.39
841-MCF51JM64VLH	MCF51JM64VLH	LQFP 64	64000	8000	SCI, SPI, I2C, USB, CAN	24	6, 2	5.5	51	12-ch / 12-bit	5.91	5.56	4.52	3.47
841-MCF51JM64VLK	MCF51JM64VLK	LQFP 80	64000	8000	SCI, SPI, I2C, USB, CAN	24	6, 2	5.5	66	12-ch / 12-bit	6.09	5.73	4.65	3.58
841-MCF51JM64VQH	MCF51JM64VQH	QFP 64	64000	8000	SCI, SPI, I2C, USB, CAN	24	6, 2	5.5	51	12-ch / 12-bit	5.91	5.56	4.52	3.47
841-MCF51JM128EVLD	MCF51JM128EVLD	LQFP 80	128000	16000	SCI, SPI, I2C, USB, CAN	24	6, 2	5.5	66	12-ch / 12-bit	7.73	7.27	5.90	4.54
841-MCF51JM128VLD	MCF51JM128VLD	LQFP 44	128000	16000	SCI, SPI, I2C, USB, CAN	24	4,							