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8-bit Microcontrollers

Fastest and lowest-power 8-bit MCUs in the industry.

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EFM8™ Busy Bee

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	TEMP SENSOR	SPI	VREF	COMP.	PACKAGE
EFM8BB10F2G-A-QFN20	2 kB	25	0.25	16	4	3	±2%	12-bit, 15-ch.	1	1	✓	1	✓	2	QFN20
EFM8BB10F4G-A-QFN20	4 kB	25	0.5	16	4	3	±2%	12-bit, 15-ch.	1	1	✓	1	✓	2	QFN20
EFM8BB10F8G-A-QFN20	8 kB	25	0.5	16	4	3	±2%	12-bit, 15-ch.	1	1	✓	1	✓	2	QFN20
EFM8BB10F8G-A-QSOP24	8 kB	25	0.5	18	4	3	±2%	12-bit, 16-ch.	1	1	✓	1	✓	2	QSOP24
EFM8BB10F8G-A-SOIC16	8 kB	25	0.5	13	4	3	±2%	12-bit, 12-ch.	1	1	✓	1	✓	2	SOIC16
EFM8BB21F16G-B-QFN20	16 kB	50	2	16	5	3	±2%	12-bit, 15-ch.	2	1	✓	1	✓	2	QFN20
EFM8BB21F16G-C-QSOP24	16 kB	50	2	21	5	3	±2%	12-bit, 20-ch.	2	1	✓	1	✓	2	QSOP24
EFM8BB22F16G-C-QFN28	16 kB	50	2	22	5	3	±2%	12-bit, 20-ch.	2	1	✓	1	✓	2	QFN28

EFM8 Sleepy Bee

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATION	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	TEMP SENSOR	CAP SENSE	SPI	VREF	COMP.	PACKAGE
EFM8SB10F2G-A-QFN20	2 kB	25	0.25	16	I ² C; SPI; UART	4	3	±2%	12-bit, 9-ch.	1	1	✓	✓	1	✓	1	QFN20
EFM8SB10F4G-A-QFN20	4 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%	12-bit, 9-ch.	1	1	✓	✓	1	✓	1	QFN20
EFM8SB10F8G-A-QFN20	8 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%	12-bit, 9-ch.	1	1	✓	✓	1	✓	1	QFN20
EFM8SB10F8G-A-QFN24	8 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	12-bit, 10-ch.	1	1	✓	✓	1	✓	1	QFN24
EFM8SB10F8G-A-QSOP24	8 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	12-bit, 10-ch.	1	1	✓	✓	1	✓	1	QSOP24
EFM8SB10F8G-CSP16	8 kB	25	0.5	13	I ² C; SPI; UART	4	3	±2%	12-bit, 9ch.	1	1	✓	✓	1	✓	1	CSP16
EFM8SB20F16G-A-QFN24	16 kB	25	4	16	I ² C; 2 x SPI; UART	4	6	±2%	10-bit, 15-ch.	1	1	✓	—	2	✓	2	QFN24
EFM8SB20F32G-A-QFN24	32 kB	25	4	16	I ² C; 2 x SPI; UART	4	6	±2%	10-bit, 15-ch.	1	1	✓	—	2	✓	2	QFN24
EFM8SB20F32G-A-QFN32	32 kB	25	4	24	EMIF; I ² C; 2 x SPI; UART	4	6	±2%	10-bit, 23-ch.	1	1	✓	—	2	✓	2	QFN32
EFM8SB20F32G-A-QFP32	32 kB	25	4	24	EMIF; I ² C; 2 x SPI; UART	4	6	±2%	10-bit, 23-ch.	1	1	✓	—	2	✓	2	QFP32
EFM8SB20F64G-A-QFN24	64 kB	25	4	16	I ² C; 2 x SPI; UART	4	6	±2%	10-bit, 15-ch.	1	1	✓	—	2	✓	2	QFN24
EFM8SB20F64G-A-QFN32	64 kB	25	4	24	EMIF; I ² C; 2 x SPI; UART	4	6	±2%	10-bit, 23-ch.	1	1	✓	—	2	✓	2	QFN32
EFM8SB20F64G-A-QFP32	64 kB	25	4	24	EMIF; I ² C; 2 x SPI; UART	4	6	±2%	10-bit, 23-ch.	1	1	✓	—	2	✓	2	QFP32

EFM8 Universal Bee

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	TEMP SENSOR	SPI	5V REGULATOR	COMP.	PACKAGE
EFM8UB10F16G-C-QFN20	16 kB	48	2	13	HS I ² C Slave; I ² C; SPI; 2 x UART; USB	5	3	±1.5%	12-bit, 11-ch.	2	2	✓	1	✓	2	QFN20
EFM8UB10F16G-C-QFN28	16 kB	48	2	22	HS I ² C Slave; I ² C; SPI; 2 x UART; USB	5	3	±1.5%	12-bit, 20-ch.	2	2	✓	1	✓	2	QFN28
EFM8UB10F8G-C-QFN20	8 kB	48	2	13	HS I ² C Slave; I ² C; SPI; 2 x UART; USB	5	3	±1.5%	12-bit, 11-ch.	2	2	✓	1	✓	2	QFN20
EFM8UB11F16G-C-QSOP24	16 kB	48	2	17	HS I ² C Slave; I ² C; SPI; 2 x UART; USB	5	3	±1.5%	12-bit, 15-ch.	2	2	✓	1	✓	2	QSOP24
EFM8UB20F32G-A-QFN32	32 kB	48	2	25	2 x I ² C; SPI; 2 x UART; USB	6	5	±1.5%	10-bit, 20-ch.	2	2	✓	1	✓	2	QFN32
EFM8UB20F32G-A-QFP32	32 kB	48	2	25	2 x I ² C; SPI; 2 x UART; USB	6	5	±1.5%	10-bit, 20-ch.	2	2	✓	1	✓	2	QFP32
EFM8UB20F32G-A-QFP48	32 kB	48	2	40	EMIF; 2 x I ² C; SPI; 2 x UART; USB	6	5	±1.5%	10-bit, 32-ch.	2	2	✓	1	✓	2	QFP48
EFM8UB20F64G-A-QFN32	64 kB	48	4	25	2 x I ² C; SPI; 2 x UART; USB	6	5	±1.5%	10-bit, 20-ch.	2	2	✓	1	✓	2	QFN32
EFM8UB20F64G-A-QFP32	64 kB	48	4	25	2 x I ² C; SPI; 2 x UART; USB	6	5	±1.5%	10-bit, 20-ch.	2	2	✓	1	✓	2	QFP32
EFM8UB20F64G-A-QFP48	64 kB	48	4	40	EMIF; 2 x I ² C; SPI; 2 x UART; USB	6	5	±1.5%	10-bit, 32-ch.	2	2	✓	1	✓	2	QFP48

Analog Intensive MCUs

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	DAC	TEMP SENSOR	VREF	COMP.	PACKAGE
C8051F000	32 kB	20	0.25	32	I ² C; SPI; UART	4	5	±20%	—	1	1	12-bit, 2-ch.	✓	✓	2	QFP64
C8051F001	32 kB	20	0.25	16	I ² C; SPI; UART	4	5	±20%	—	1	1	12-bit, 2-ch.	✓	✓	2	QFP48
C8051F002	32 kB	20	0.25	8	I ² C; SPI; UART	4	5	±20%	—	1	1	12-bit, 2-ch.	✓	✓	1	QFP32
C8051F005	32 kB	25	2.25	32	I ² C; SPI; UART	4	5	±20%	—	1	1	12-bit, 2-ch.	✓	✓	2	QFP64
C8051F006	32 kB	25	2.25	16	I ² C; SPI; UART	4	5	±20%	—	1	1	12-bit, 2-ch.	✓	✓	2	QFP48
C8051F007	32 kB	25	2.25	8	I ² C; SPI; UART	4	5	±20%	—	1	1	12-bit, 2-ch.	✓	✓	1	QFP32
C8051F010	32 kB	20	0.25	32	I ² C; SPI; UART	4	5	±20%	—	1	1	12-bit, 2-ch.	✓	✓	2	QFP64
C8051F011	32 kB	20	0.25	16	I ² C; SPI; UART	4	5	±20%	—	1	1	12-bit, 2-ch.	✓	✓	2	QFP48
C8051F012	32 kB	20	0.25	8	I ² C; SPI; UART	4	5	±20%	—	1	1	12-bit, 2-ch.	✓	✓	1	QFP32
C8051F015	32 kB	25	2.25	32	I ² C; SPI; UART	4	5	±20%	—	1	1	12-bit, 2-ch.	✓	✓	2	QFP64
C8051F016	32 kB	25	2.25	16	I ² C; SPI; UART	4	5	±20%	—	1	1	12-bit, 2-ch.	✓	✓	2	QFP48
C8051F017	32 kB	25	2.25	8	I ² C; SPI; UART	4	5	±20%	—	1	1	12-bit, 2-ch.	✓	✓	1	QFP32
C8051F018	16 kB	25	1.25	32	I ² C; SPI; UART	4	5	±20%	—	1	1	—	✓	✓	2	QFP64
C8051F019	16 kB	25	1.25	16	I ² C; SPI; UART	4	5	±20%	—	2	1	—	✓	✓	2	QFP48
C8051F020	64 kB	25	4.25	64	EMIF; I ² C; SPI; UART; 2 x UART	5	5	±20%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	2	QFP100
C8051F021	64 kB	25	4.25	32	EMIF; I ² C; SPI; UART; 2 x UART	5	5	±20%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	2	QFP64
C8051F022	64 kB	25	4.25	64	EMIF; I ² C; SPI; UART; 2 x UART	5	5	±20%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	2	QFP100
C8051F023	64 kB	25	4.25	32	EMIF; I ² C; SPI; UART; 2 x UART	5	5	±20%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	2	QFP64
C8051F040	64 kB	25	4.25	64	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	3	QFP100
C8051F041	64 kB	25	4.25	32	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	3	QFP64
C8051F042	64 kB	25	4.25	64	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	3	QFP100
C8051F043	64 kB	25	4.25	32	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	3	QFP64
C8051F044	64 kB	25	4.25	64	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	—	2	1	—	✓	✓	3	QFP100
C8051F045	64 kB	25	4.25	32	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	—	2	1	—	✓	✓	3	QFP64
C8051F046	32 kB	25	4.25	64	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	—	2	1	—	✓	✓	3	QFP100
C8051F047	32 kB	25	4.25	32	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	—	2	1	—	✓	✓	3	QFP64
C8051F060	64 kB	25	4.25	59	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	2	1	12-bit, 2-ch.	✓	✓	3	QFP100
C8051F061	64 kB	25	4.25	24	CAN; I ² C; SPI; UART; 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	2	1	12-bit, 2-ch.	✓	✓	3	QFP64
C8051F062	64 kB	25	4.25	59	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	2	1	12-bit, 2-ch.	✓	✓	3	QFP100
C8051F063	64 kB	25	4.25	24	CAN; I ² C; SPI; UART; 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	2	1	12-bit, 2-ch.	✓	✓	3	QFP64
C8051F064	64 kB	25	4.25	59	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	2	1	—	—	✓	3	QFP100
C8051F065	64 kB	25	4.25	24	I ² C; SPI; UART; 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	2	1	—	—	✓	3	QFP64
C8051F066	32 kB	25	4.25	59	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	2	1	—	—	✓	3	QFP100
C8051F067	32 kB	25	4.25	24	I ² C; SPI; UART; 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	2	1	—	—	✓	3	QFP64
C8051F120	128 kB	100	8	64	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	2	QFP100
C8051F121	128 kB	100	8	32	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	2	QFP64
C8051F122	128 kB	100	8	64	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	2	QFP100
C8051F123	128 kB	100	8	32	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	2	QFP64

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	DAC	TEMP SENSOR	VREF	COMP.	PACKAGE
C8051F124	128 kB	50	8	64	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	2	QFP100
C8051F125	128 kB	50	8	32	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	2	QFP64
C8051F126	128 kB	50	8	64	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	2	QFP100
C8051F127	128 kB	50	8	32	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	8-bit, 8-ch., 500 ksp/s	2	1	12-bit, 2-ch.	✓	✓	2	QFP64
C8051F130	128 kB	100	8	64	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	—	2	1	—	✓	✓	2	QFP100
C8051F131	128 kB	100	8	32	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	—	2	1	—	✓	✓	2	QFP64
C8051F132	64 kB	100	8	64	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	—	2	1	—	✓	✓	2	QFP100
C8051F133	64 kB	100	8	32	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	—	2	1	—	✓	✓	2	QFP64
C8051F350	8 kB	50	0.75	17	I ² C; SPI; UART	4	3	±2%	—	1	1	8-bit, 2-ch.	✓	✓	1	QFP32
C8051F351	8 kB	50	0.75	17	I ² C; SPI; UART	4	3	±2%	—	1	1	8-bit, 2-ch.	✓	✓	1	
C8051F352	8 kB	50	0.75	17	I ² C; SPI; UART	4	3	±2%	—	1	1	8-bit, 2-ch.	✓	✓	1	QFP32
C8051F353	8 kB	50	0.75	17	I ² C; SPI; UART	4	3	±2%	—	1	1	8-bit, 2-ch.	✓	✓	1	
C8051F360	32 kB	100	1.25	39	EMIF; I ² C; SPI; UART	4	6	±2%	—	1	1	10-bit, 1-ch.	✓	✓	2	QFP48
C8051F361	32 kB	100	1.25	29	I ² C; SPI; UART	4	6	±2%	—	1	1	10-bit, 1-ch.	✓	✓	2	QFP32
C8051F362	32 kB	100	1.25	25	I ² C; SPI; UART	4	6	±2%	—	1	1	10-bit, 1-ch.	✓	✓	2	QFN28
C8051F363	32 kB	100	1.25	39	EMIF; I ² C; SPI; UART	4	6	±2%	—	1	1	—	—	—	2	QFP48
C8051F364	32 kB	100	1.25	29	I ² C; SPI; UART	4	6	±2%	—	1	1	—	—	—	2	QFP32
C8051F365	32 kB	100	1.25	25	I ² C; SPI; UART	4	6	±2%	—	1	1	—	—	—	2	QFN28
C8051F366	32 kB	50	1.25	29	I ² C; SPI; UART	4	6	±2%	—	1	1	10-bit, 1-ch.	✓	✓	2	QFP32
C8051F367	32 kB	50	1.25	25	I ² C; SPI; UART	4	6	±2%	—	1	1	10-bit, 1-ch.	✓	✓	2	QFN28
C8051F368	16 kB	50	1.25	29	I ² C; SPI; UART	4	6	±2%	—	1	1	10-bit, 1-ch.	✓	✓	2	QFP32
C8051F369	16 kB	50	1.25	25	I ² C; SPI; UART	4	6	±2%	—	1	1	10-bit, 1-ch.	✓	✓	2	QFN28
C8051F370-A-GM	16 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	—	1	2	10-bit, 2-ch.	✓	✓	2	QFN24
C8051F371-A-GM	16 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	—	1	2	—	—	—	2	QFN24
C8051F374-A-GM	8 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	—	1	2	10-bit, 2-ch.	✓	✓	1	QFN24
C8051F375-A-GM	8 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	—	1	2	—	—	—	1	QFN24
C8051F390-A-GM	16 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	—	1	2	10-bit, 2-ch.	✓	✓	1	QFN24
C8051F391-A-GM	16 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	—	1	2	—	—	—	1	QFN24
C8051F392-A-GM	16 kB	50	1	17	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	—	1	2	10-bit, 2-ch.	✓	✓	1	QFN20
C8051F393-A-GM	16 kB	50	1	17	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	—	1	2	—	—	—	1	QFN20
C8051F394-A-GM	8 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	—	1	2	10-bit, 2-ch.	✓	✓	1	QFN24
C8051F395-A-GM	8 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	—	1	2	—	—	—	1	QFN24
C8051F396-A-GM	8 kB	50	1	17	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	—	1	2	10-bit, 2-ch.	✓	✓	1	QFN20
C8051F397-A-GM	8 kB	50	1	17	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	—	1	2	—	—	—	1	QFN20
C8051F398-A-GM	4 kB	50	1	17	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	—	1	2	10-bit, 2-ch.	✓	✓	1	QFN20
C8051F399-A-GM	4 kB	50	1	17	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	—	1	2	—	—	—	1	QFN20
C8051F410	32 kB	50	2.25	24	I ² C; SPI; UART	4	6	±2%	—	1	1	12-bit, 2-ch.	✓	✓	2	QFP32
C8051F411	32 kB	50	2.25	20	I ² C; SPI; UART	4	6	±2%	—	1	1	12-bit, 2-ch.	✓	✓	2	QFN28

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	DAC	TEMP SENSOR	VREF	COMP.	PACKAGE
C8051F412	16 kB	50	2.25	24	I ² C; SPI; UART	4	6	±2%	—	1	1	12-bit, 2-ch.	✓	✓	2	QFP32
C8051F413	16 kB	50	2.25	20	I ² C; SPI; UART	4	6	±2%	—	1	1	12-bit, 2-ch.	✓	✓	2	QFN28

Automotive and Industrial Qualified MCUs

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATION	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	TEMP SENSOR	VREF	COMP.	PACKAGE
C8051F500-AM	64 kB	50	4.25	40	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN48
C8051F500-AQ	64 kB	50	4.25	40	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFP48
C8051F500-IM	64 kB	50	4.25	40	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN48
C8051F500-IQ	64 kB	50	4.25	40	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFP48
C8051F501-AM	64 kB	50	4.25	40	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN48
C8051F501-AQ	64 kB	50	4.25	40	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFP48
C8051F501-IM	64 kB	50	4.25	40	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN48
C8051F501-IQ	64 kB	50	4.25	40	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFP48
C8051F502-AM	64 kB	50	4.25	25	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F502-AQ	64 kB	50	4.25	25	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F502-IM	64 kB	50	4.25	25	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F502-IQ	64 kB	50	4.25	25	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F503-AM	64 kB	50	4.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F503-AQ	64 kB	50	4.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F503-IM	64 kB	50	4.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F503-IQ	64 kB	50	4.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F504-AM	32 kB	50	4.25	40	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN48
C8051F504-AQ	32 kB	50	4.25	40	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFP48
C8051F504-IM	32 kB	50	4.25	40	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN48
C8051F504-IQ	32 kB	50	4.25	40	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFP48
C8051F505-AM	32 kB	50	4.25	40	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN48
C8051F505-AQ	32 kB	50	4.25	40	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFP48
C8051F505-IM	32 kB	50	4.25	40	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN48
C8051F505-IQ	32 kB	50	4.25	40	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFP48
C8051F506-AM	32 kB	50	4.25	25	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F506-AQ	32 kB	50	4.25	25	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F506-IM	32 kB	50	4.25	25	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F506-IQ	32 kB	50	4.25	25	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F507-AM	32 kB	50	4.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F507-AQ	32 kB	50	4.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F507-IM	32 kB	50	4.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F507-IQ	32 kB	50	4.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F508-AM	64 kB	50	4.25	33	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATION	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	TEMP SENSOR	VREF	COMP.	PACKAGE
C8051F508-IM	64 kB	50	4.25	33	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F509-AM	64 kB	50	4.25	33	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F509-IM	64 kB	50	4.25	33	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F510-AM	32 kB	50	4.25	33	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F510-IM	32 kB	50	4.25	33	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F511-AM	32 kB	50	4.25	33	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F511-IM	32 kB	50	4.25	33	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F520-C-AM	8 kB	25	0.25	6	LIN; SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	1	0	✓	✓	1	DFN10
C8051F520-C-IM	8 kB	25	0.25	6	LIN; SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	1	0	✓	✓	1	DFN10
C8051F521-C-AM	8 kB	25	0.25	6	SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	1	0	✓	✓	1	DFN10
C8051F521-C-IM	8 kB	25	0.25	6	SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	1	0	✓	✓	1	DFN10
C8051F523-C-AM	4 kB	25	0.25	6	LIN; SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	1	0	✓	✓	1	DFN10
C8051F523-C-IM	4 kB	25	0.25	6	LIN; SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	1	0	✓	✓	1	DFN10
C8051F524-C-AM	4 kB	25	0.25	6	SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	1	0	✓	✓	1	DFN10
C8051F524-C-IM	4 kB	25	0.25	6	SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	1	0	✓	✓	1	DFN10
C8051F526-C-AM	2 kB	25	0.25	6	LIN; SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	1	0	✓	✓	1	DFN10
C8051F526-C-IM	2 kB	25	0.25	6	LIN; SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	1	0	✓	✓	1	DFN10
C8051F527-C-AM	2 kB	25	0.25	6	SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	1	0	✓	✓	1	DFN10
C8051F527-C-IM	2 kB	25	0.25	6	SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	1	0	✓	✓	1	DFN10
C8051F530-C-AM	8 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	QFN20
C8051F530-C-AT	8 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	TSSOP20
C8051F530-C-IM	8 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	QFN20
C8051F530-C-IT	8 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	TSSOP20
C8051F531-C-AM	8 kB	25	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	QFN20
C8051F531-C-AT	8 kB	25	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	TSSOP20
C8051F531-C-IM	8 kB	25	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	QFN20
C8051F531-C-IT	8 kB	25	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	TSSOP20
C8051F533-C-AM	4 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	QFN20
C8051F533-C-AT	4 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	TSSOP20
C8051F533-C-IM	4 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	QFN20
C8051F533-C-IT	4 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	TSSOP20
C8051F534-C-AM	4 kB	25	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	QFN20
C8051F534-C-AT	4 kB	25	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	TSSOP20
C8051F534-C-IM	4 kB	25	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	QFN20
C8051F534-C-IT	4 kB	25	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	TSSOP20
C8051F536-C-AM	2 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	QFN20
C8051F536-C-AT	2 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	TSSOP20
C8051F536-C-IM	2 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	QFN20

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATION	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	TEMP SENSOR	VREF	COMP.	PACKAGE
C8051F536-C-IT	2 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	TSSOP20
C8051F537-C-AM	2 kB	25	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	QFN20
C8051F537-C-AT	2 kB	25	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	TSSOP20
C8051F537-C-IM	2 kB	25	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	QFN20
C8051F537-C-IT	2 kB	25	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	1	0	✓	✓	1	TSSOP20
C8051F540-AM	16 kB	50	1.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFN32
C8051F540-AQ	16 kB	50	1.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFP32
C8051F540-IM	16 kB	50	1.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFN32
C8051F540-IQ	16 kB	50	1.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFP32
C8051F541-AM	16 kB	50	1.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFN32
C8051F541-AQ	16 kB	50	1.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFP32
C8051F541-IM	16 kB	50	1.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFN32
C8051F541-IQ	16 kB	50	1.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFP32
C8051F542-AM	16 kB	50	1.25	18	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	0	✓	✓	2	QFN24
C8051F542-IM	16 kB	50	1.25	18	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	0	✓	✓	2	QFN24
C8051F543-AM	16 kB	50	1.25	18	I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	0	✓	✓	2	QFN24
C8051F543-IM	16 kB	50	1.25	18	I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	0	✓	✓	2	QFN24
C8051F544-AM	8 kB	50	1.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFN32
C8051F544-AQ	8 kB	50	1.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFP32
C8051F544-IM	8 kB	50	1.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	0	✓	✓	2	QFN32
C8051F544-IQ	8 kB	50	1.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFP32
C8051F545-AM	8 kB	50	1.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFN32
C8051F545-AQ	8 kB	50	1.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFP32
C8051F545-IM	8 kB	50	1.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFN32
C8051F545-IQ	8 kB	50	1.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	0	✓	✓	2	QFP32
C8051F546-AM	8 kB	50	1.25	18	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	0	✓	✓	2	QFN24
C8051F546-IM	8 kB	50	1.25	18	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	0	✓	✓	2	QFN24
C8051F547-AM	8 kB	50	1.25	18	I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	0	✓	✓	2	QFN24
C8051F547-IM	8 kB	50	1.25	18	I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	0	✓	✓	2	QFN24
C8051F550-AM	32 kB	50	2.25	18	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F550-IM	32 kB	50	2.25	18	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F551-AM	32 kB	50	2.25	18	CAN; I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F551-IM	32 kB	50	2.25	18	CAN; I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F552-AM	32 kB	50	2.25	18	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F552-IM	32 kB	50	2.25	18	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F553-AM	32 kB	50	2.25	18	I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F553-IM	32 kB	50	2.25	18	I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F554-AM	16 kB	50	2.25	18	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATION	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	TEMP SENSOR	VREF	COMP.	PACKAGE
C8051F554-IM	16 kB	50	2.25	18	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F555-AM	16 kB	50	2.25	18	CAN; I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F555-IM	16 kB	50	2.25	18	CAN; I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F556-AM	16 kB	50	2.25	18	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F556-IM	16 kB	50	2.25	18	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F557-AM	16 kB	50	2.25	18	I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F557-IM	16 kB	50	2.25	18	I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	1	1	✓	✓	2	QFN24
C8051F560-AM	32 kB	50	2.25	25	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F560-AQ	32 kB	50	2.25	25	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F560-IM	32 kB	50	2.25	25	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F560-IQ	32 kB	50	2.25	25	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F561-AM	32 kB	50	2.25	25	CAN; I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F561-AQ	32 kB	50	2.25	25	CAN; I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F561-IM	32 kB	50	2.25	25	CAN; I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F561-IQ	32 kB	50	2.25	25	CAN; I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F562-AM	32 kB	50	2.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F562-AQ	32 kB	50	2.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F562-IM	32 kB	50	2.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F562-IQ	32 kB	50	2.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F563-AM	32 kB	50	2.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F563-AQ	32 kB	50	2.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F563-IM	32 kB	50	2.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F563-IQ	32 kB	50	2.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F564-AM	16 kB	50	2.25	25	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F564-AQ	16 kB	50	2.25	25	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F564-IM	16 kB	50	2.25	25	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F564-IQ	16 kB	50	2.25	25	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F565-AM	16 kB	50	2.25	25	CAN; I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F565-AQ	16 kB	50	2.25	25	CAN; I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F565-IM	16 kB	50	2.25	25	CAN; I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F565-IQ	16 kB	50	2.25	25	CAN; I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F566-AM	16 kB	50	2.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F566-AQ	16 kB	50	2.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F566-IM	16 kB	50	2.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F566-IQ	16 kB	50	2.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F567-AM	16 kB	50	2.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32
C8051F567-AQ	16 kB	50	2.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F567-IM	16 kB	50	2.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFN32

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATION	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	TEMP SENSOR	VREF	COMP.	PACKAGE
C8051F567-IQ	16 kB	50	2.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	1	1	✓	✓	2	QFP32
C8051F568-AM	32 kB	50	2.25	33	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F568-IM	32 kB	50	2.25	33	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F569-AM	32 kB	50	2.25	33	CAN; EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F569-IM	32 kB	50	2.25	33	CAN; EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F570-AM	32 kB	50	2.25	33	EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F570-IM	32 kB	50	2.25	33	EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F571-AM	32 kB	50	2.25	33	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F571-IM	32 kB	50	2.25	33	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F572-AM	16 kB	50	2.25	33	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F572-IM	16 kB	50	2.25	33	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F573-AM	16 kB	50	2.25	33	CAN; EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F573-IM	16 kB	50	2.25	33	CAN; EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F574-AM	16 kB	50	2.25	33	EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F574-IM	16 kB	50	2.25	33	EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F575-AM	16 kB	50	2.25	33	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F575-IM	16 kB	50	2.25	33	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	1	1	✓	✓	2	QFN40
C8051F580-AM	128 kB	50	8	40	CAN; EMIF; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN48
C8051F580-AQ	128 kB	50	8	40	CAN; EMIF; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFP48
C8051F580-IM	128 kB	50	8	40	CAN; EMIF; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN48
C8051F580-IQ	128 kB	50	8	40	CAN; EMIF; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFP48
C8051F581-AM	128 kB	50	8	40	EMIF; I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN48
C8051F581-AQ	128 kB	50	8	40	EMIF; I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFP48
C8051F581-IM	128 kB	50	8	40	EMIF; I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN48
C8051F581-IQ	128 kB	50	8	40	EMIF; I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFP48
C8051F582-AM	128 kB	50	8	25	CAN; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFN32
C8051F582-AQ	128 kB	50	8	25	CAN; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFP32
C8051F582-IM	128 kB	50	8	25	CAN; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFN32
C8051F582-IQ	128 kB	50	8	25	CAN; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFP32
C8051F583-AM	128 kB	50	8	25	I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFN32
C8051F583-AQ	128 kB	50	8	25	I ² C; SPI; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFP32
C8051F583-IM	128 kB	50	8	25	I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFN32
C8051F583-IQ	128 kB	50	8	25	I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFP32
C8051F584-AM	96 kB	50	8	40	CAN; EMIF; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN48
C8051F584-AQ	96 kB	50	8	40	CAN; EMIF; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFP48
C8051F584-IM	96 kB	50	8	40	CAN; EMIF; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN48
C8051F584-IQ	96 kB	50	8	40	CAN; EMIF; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFP48
C8051F585-AM	96 kB	50	8	40	EMIF; I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN48

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATION	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	TEMP SENSOR	VREF	COMP.	PACKAGE
C8051F585-AQ	96 kB	50	8	40	EMIF; I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFP48
C8051F585-IM	96 kB	50	8	40	EMIF; I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN48
C8051F585-IQ	96 kB	50	8	40	EMIF; I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFP48
C8051F586-AM	96 kB	50	8	25	CAN; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFN32
C8051F586-AQ	96 kB	50	8	25	CAN; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFP32
C8051F586-IM	96 kB	50	8	25	CAN; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFN32
C8051F586-IQ	96 kB	50	8	25	CAN; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFP32
C8051F587-AM	96 kB	50	8	25	I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFN32
C8051F587-AQ	96 kB	50	8	25	I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFP32
C8051F587-IM	96 kB	50	8	25	I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFN32
C8051F587-IQ	96 kB	50	8	25	I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	2	1	✓	✓	3	QFP32
C8051F588-AM	128 kB	50	8	33	CAN; EMIF; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN40
C8051F588-IM	128 kB	50	8	33	CAN; EMIF; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN40
C8051F589-AM	128 kB	50	8	33	EMIF; I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN40
C8051F589-IM	128 kB	50	8	33	EMIF; I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN40
C8051F590-AM	96 kB	50	8	33	CAN; EMIF; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN40
C8051F590-IM	96 kB	50	8	33	CAN; EMIF; I ² C; LIN; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN40
C8051F591-AM	96 kB	50	8	33	EMIF; I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN40
C8051F591-IM	96 kB	50	8	33	EMIF; I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps	2	1	✓	✓	3	QFN40

General Purpose MCUs

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	SPI	TEMP SENSOR	VREF	CO MP.	PACKAGE
C8051F206	8 kB	25	1.25	32	SPI; UART	3	—	±20%	12-bit, 32-ch., 100 ksps	1	0	1	—	—	2	QFP48
C8051F220	8 kB	25	0.25	32	SPI; UART	3	—	±20%	8-bit, 32-ch., 100 ksps	1	0	1	—	—	2	QFP48
C8051F221	8 kB	25	0.25	22	SPI; UART	3	—	±20%	8-bit, 22-ch., 100 ksps	1	0	1	—	—	2	QFP32
C8051F226	8 kB	25	1.25	32	SPI; UART	3	—	±20%	8-bit, 32-ch., 100 ksps	1	0	1	—	—	2	QFP48
C8051F230	8 kB	25	0.25	32	SPI; UART	3	—	±20%	—	1	0	1	—	—	2	QFP48
C8051F231	8 kB	25	0.25	22	SPI; UART	3	—	±20%	—	1	0	1	—	—	2	QFP32
C8051F236	8 kB	25	1.25	32	SPI; UART	3	—	±20%	—	1	0	1	—	—	2	QFP48
C8051F300-GM	8 kB	25	0.25	8	I ² C; UART	3	3	±2%	8-bit, 8-ch., 500 ksps	1	1	0	✓	—	1	QFN11
C8051F300-GS	8 kB	25	0.25	8	I ² C; UART	3	3	±2%	8-bit, 8-ch., 500 ksps	1	1	0	✓	—	1	SOIC14
C8051F301-GM	8 kB	25	0.25	8	I ² C; UART	3	3	±2%	—	1	1	0	—	—	1	QFN11
C8051F301-GS	8 kB	25	0.25	8	I ² C; UART	3	3	±2%	—	1	1	0	—	—	1	SOIC14
C8051F302-GM	8 kB	25	0.25	8	I ² C; UART	3	3	±20%	8-bit, 8-ch., 500 ksps	1	1	0	✓	—	1	QFN11
C8051F302-GS	8 kB	25	0.25	8	I ² C; UART	3	3	±20%	8-bit, 8-ch., 500 ksps	1	1	0	✓	—	1	SOIC14
C8051F303-GM	8 kB	25	0.25	8	I ² C; UART	3	3	±20%	—	1	1	0	—	—	1	QFN11
C8051F303-GS	8 kB	25	0.25	8	I ² C; UART	3	3	±20%	—	1	1	0	—	—	1	SOIC14
C8051F304-GM	4 kB	25	0.25	8	I ² C; UART	3	3	±20%	—	1	1	0	—	—	1	QFN11

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	SPI	TEMP SENSOR	VREF	CO MP.	PACKAGE
C8051F304-GS	4 kB	25	0.25	8	I ² C; UART	3	3	±20%	—	1	1	0	—	—	1	SOIC14
C8051F305-GM	2 kB	25	0.25	8	I ² C; UART	3	3	±20%	—	1	1	0	—	—	1	QFN11
C8051F305-GS	2 kB	25	0.25	8	I ² C; UART	3	3	±20%	—	1	1	0	—	—	1	SOIC14
C8051F310	16 kB	25	1.25	29	I ² C; SPI; UART	4	5	±2%	10-bit, 21-ch., 200 ksp/s	1	1	1	✓	—	2	QFP32
C8051F311	16 kB	25	1.25	25	I ² C; SPI; UART	4	5	±2%	10-bit, 17-ch., 200 ksp/s	1	1	1	✓	—	2	QFN28
C8051F312	8 kB	25	1.25	29	I ² C; SPI; UART	4	5	±2%	10-bit, 21-ch., 200 ksp/s	1	1	1	✓	—	2	QFP32
C8051F313	8 kB	25	1.25	25	I ² C; SPI; UART	4	5	±2%	10-bit, 17-ch., 200 ksp/s	1	1	1	✓	—	2	QFN28
C8051F314	8 kB	25	1.25	29	I ² C; SPI; UART	4	5	±2%	—	1	1	1	—	—	2	QFP32
C8051F315	8 kB	25	1.25	25	I ² C; SPI; UART	4	5	±2%	—	1	1	1	—	—	2	QFN28
C8051F316	16 kB	25	1.25	21	I ² C; SPI; UART	4	5	±2%	10-bit, 13-ch., 200 ksp/s	1	1	1	✓	—	2	QFN24
C8051F317	16 kB	25	1.25	21	I ² C; SPI; UART	4	5	±2%	—	1	1	1	—	—	2	QFN24
C8051F320	16 kB	25	2.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 17-ch., 200 ksp/s	1	1	1	✓	✓	2	QFP32
C8051F321	16 kB	25	2.25	21	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 13-ch., 200 ksp/s	1	1	1	✓	✓	2	QFN28
C8051F326	16 kB	25	1.5	15	UART; USB	2	—	±1.5%	—	1	0	0	—	—	—	QFN28
C8051F327	16 kB	25	1.5	15	UART; USB	2	—	±1.5%	—	1	0	0	—	—	—	QFN28
C8051F330-GM	8 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 200 ksp/s	1	1	1	✓	✓	1	QFN20
C8051F330-GP	8 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 200 ksp/s	1	1	1	✓	✓	1	DIP20
C8051F331	8 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN20
C8051F332	4 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 200 ksp/s	1	1	1	✓	✓	1	QFN20
C8051F333	4 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN20
C8051F334	2 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 200 ksp/s	1	1	1	✓	✓	1	QFN20
C8051F335	2 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN20
C8051F336	16 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 200 ksp/s	1	1	1	✓	✓	1	QFN20
C8051F337	16 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN20
C8051F338	16 kB	25	0.75	21	I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 200 ksp/s	1	1	1	✓	✓	1	QFN24
C8051F339	16 kB	25	0.75	21	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN24
C8051F340-GQ	64 kB	50	4.25	40	EMIF; I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 20-ch., 200 ksp/s	2	1	1	✓	✓	2	QFP48
C8051F341-GQ	32 kB	50	2.25	40	EMIF; I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 20-ch., 200 ksp/s	2	1	1	✓	✓	2	QFP48
C8051F342-GM	64 kB	50	4.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksp/s	1	1	1	✓	✓	2	QFN32
C8051F342-GQ	64 kB	50	4.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksp/s	1	1	1	✓	✓	2	QFP32
C8051F343-GM	32 kB	50	2.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksp/s	1	1	1	✓	✓	2	QFN32
C8051F343-GQ	32 kB	50	2.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksp/s	1	1	1	✓	✓	2	QFP32
C8051F344-GQ	64 kB	25	4.25	40	EMIF; I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 20-ch., 200 ksp/s	2	1	1	✓	✓	2	QFP48
C8051F345-GQ	32 kB	25	2.25	40	EMIF; I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 20-ch., 200 ksp/s	2	1	1	✓	✓	2	QFP48
C8051F346-GM	64 kB	25	4.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksp/s	1	1	1	✓	✓	2	QFN32
C8051F346-GQ	64 kB	25	4.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksp/s	1	1	1	✓	✓	2	QFP32
C8051F347-GM	32 kB	25	2.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksp/s	1	1	1	✓	✓	2	QFN32
C8051F347-GQ	32 kB	25	2.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksp/s	1	1	1	✓	✓	2	QFP32

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	SPI	TEMP SENSOR	VREF	CO MP.	PACKAGE
C8051F348-GQ	32 kB	25	2.25	40	EMIF; I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	—	2	1	1	—	—	2	QFP48
C8051F349-GM	32 kB	25	2.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	—	1	1	1	—	—	2	QFN32
C8051F349-GQ	32 kB	25	2.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	—	1	1	1	—	—	2	QFP32
C8051F34A-GM	64 kB	50	4.25	25	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksp/s	2	1	1	✓	✓	2	QFN32
C8051F34A-GQ	64 kB	50	4.25	25	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksp/s	2	1	1	✓	✓	2	QFP32
C8051F34B-GM	32 kB	50	2.25	25	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksp/s	2	1	1	✓	✓	2	QFN32
C8051F34B-GQ	32 kB	50	2.25	25	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksp/s	2	1	1	✓	✓	2	QFP32
C8051F34C-GQ	64 kB	50	5.25	40	EMIF; I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	—	2	1	1	—	—	2	QFP48
C8051F34D-GQ	64 kB	50	5.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	—	1	1	1	—	—	2	QFP32
C8051F380-GQ	64 kB	50	4.25	40	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	10-bit, 32-ch., 500 ksp/s	2	2	1	✓	✓	2	QFP48
C8051F381-GM	64 kB	50	4.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	10-bit, 21-ch., 500 ksp/s	2	2	1	✓	✓	2	QFN32
C8051F381-GQ	64 kB	50	4.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	10-bit, 21-ch., 500 ksp/s	2	2	1	✓	✓	2	QFP32
C8051F382-GQ	32 kB	50	2.25	40	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	10-bit, 32-ch., 500 ksp/s	2	2	1	✓	✓	2	QFP48
C8051F383-GM	32 kB	50	2.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	10-bit, 21-ch., 500 ksp/s	2	2	1	✓	✓	2	QFN32
C8051F383-GQ	32 kB	50	2.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	10-bit, 21-ch., 500 ksp/s	2	2	1	✓	✓	2	QFP32
C8051F384-GQ	64 kB	50	4.25	40	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	—	2	2	1	—	—	2	QFP48
C8051F385-GM	64 kB	50	4.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	—	2	2	1	—	—	2	QFN32
C8051F385-GQ	64 kB	50	4.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	—	2	2	1	—	—	2	QFP32
C8051F386-GQ	32 kB	50	2.25	40	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	—	2	2	1	—	—	2	QFP48
C8051F387-GM	32 kB	50	2.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	—	2	2	1	—	—	2	QFN32
C8051F387-GQ	32 kB	50	2.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	—	2	2	1	—	—	2	QFP32
C8051F388-GQ	64 kB	50	4.25	40	I ² C; 2 x I ² C; SPI; UART; 2 x UART	6	5	±1.5%	10-bit, 32-ch., 500 ksp/s	2	2	1	✓	✓	2	QFP48
C8051F389-GM	64 kB	50	4.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART	6	5	±1.5%	10-bit, 21-ch., 500 ksp/s	2	2	1	✓	✓	2	QFN32
C8051F389-GQ	64 kB	50	4.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART	6	5	±1.5%	10-bit, 21-ch., 500 ksp/s	2	2	1	✓	✓	2	QFP32
C8051F38A-GQ	32 kB	50	2.25	40	I ² C; 2 x I ² C; SPI; UART; 2 x UART	6	5	±1.5%	10-bit, 32-ch., 500 ksp/s	2	2	1	✓	✓	2	QFP48
C8051F38B-GM	32 kB	50	2.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART	6	5	±1.5%	10-bit, 21-ch., 500 ksp/s	2	2	1	✓	✓	2	QFN32
C8051F38B-GQ	32 kB	50	2.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART	6	5	±1.5%	10-bit, 21-ch., 500 ksp/s	2	2	1	✓	✓	2	QFP32
C8051F38C-GM	16 kB	50	2.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	10-bit, 21-ch., 500 ksp/s	2	2	1	✓	✓	2	QFN32
C8051F38C-GQ	16 kB	50	2.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	10-bit, 21-ch., 500 ksp/s	2	2	1	✓	✓	2	QFP32
C8051F700-GQ	15 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QFP64
C8051F701-GQ	15 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFP64
C8051F702-GQ	16 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QFP64
C8051F703-GQ	16 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFP64
C8051F704-GM	15 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	QFN48
C8051F704-GQ	15 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	QFP48
C8051F705-GM	15 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN48
C8051F705-GQ	15 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFP48

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	SPI	TEMP SENSOR	VREF	CO MP.	PACKAGE
C8051F706-GM	16 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	QFN48
C8051F706-GQ	16 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	QFP48
C8051F707-GM	16 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN48
C8051F707-GQ	16 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFP48
C8051F708-GQ	8 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QFP64
C8051F709-GQ	8 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFP64
C8051F710-GQ	8 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QFP64
C8051F711-GQ	8 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFP64
C8051F712-GM	8 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	QFN48
C8051F712-GQ	8 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	QFP48
C8051F713-GM	8 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN48
C8051F713-GQ	8 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFP48
C8051F714-GM	8 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	QFN48
C8051F714-GQ	8 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	QFP48
C8051F715-GM	8 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN48
C8051F715-GQ	8 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFP48
C8051F716-GM	16 kB	25	0.5	29	I ² C; SPI; UART	4	3	±2%	10-bit, 3-ch., 500 ksp/s	1	1	1	✓	✓	1	QFN32
C8051F717-GM	16 kB	25	0.5	20	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN24
C8051F800-GM	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QFN20
C8051F800-GU	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QSOP24
C8051F801-GM	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QFN20
C8051F801-GU	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QSOP24
C8051F802-GM	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QFN20
C8051F802-GU	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QSOP24
C8051F803-GS	16 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	SOIC16
C8051F804-GS	16 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	SOIC16
C8051F805-GS	16 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	SOIC16
C8051F806-GM	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	QFN20
C8051F806-GU	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	QSOP24
C8051F807-GM	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	QFN20
C8051F807-GU	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	QSOP24
C8051F808-GM	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	QFN20
C8051F808-GU	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	QSOP24
C8051F809-GS	16 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	SOIC16
C8051F810-GS	16 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	SOIC16
C8051F811-GS	16 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	SOIC16
C8051F812-GM	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QFN20
C8051F812-GU	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QSOP24

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	SPI	TEMP SENSOR	VREF	CO MP.	PACKAGE
C8051F813-GM	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QFN20
C8051F813-GU	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QSOP24
C8051F814-GM	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QFN20
C8051F814-GU	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksp/s	1	1	1	✓	✓	1	QSOP24
C8051F815-GS	8 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	SOIC16
C8051F816-GS	8 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	SOIC16
C8051F817-GS	8 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	SOIC16
C8051F818-GM	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	QFN20
C8051F818-GU	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	QSOP24
C8051F819-GM	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	QFN20
C8051F819-GU	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	QSOP24
C8051F820-GM	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	QFN20
C8051F820-GU	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	QSOP24
C8051F821-GS	8 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	SOIC16
C8051F822-GS	8 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	SOIC16
C8051F823-GS	8 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	SOIC16
C8051F824-GS	8 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	SOIC16
C8051F825-GS	8 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	SOIC16
C8051F826-GS	8 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	SOIC16
C8051F827-GS	8 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	SOIC16
C8051F828-GS	8 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	SOIC16
C8051F829-GS	8 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	SOIC16
C8051F830-GS	4 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	SOIC16
C8051F831-GS	4 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	SOIC16
C8051F832-GS	4 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksp/s	1	1	1	✓	✓	1	SOIC16
C8051F833-GS	4 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	SOIC16
C8051F834-GS	4 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	SOIC16
C8051F835-GS	4 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	—	1	1	1	—	—	1	SOIC16
C8051F850-C-GM	8 kB	25	0.50	16	I ² C; SPI; UART	4	3	±2%	12-bit, 15-ch., 200 ksp/s	1	1	1	✓	✓	2	QFN20
C8051F850-C-GU	8 kB	25	0.50	18	I ² C; SPI; UART	4	3	±2%	12-bit, 16-ch., 200 ksp/s	1	1	1	✓	✓	2	QSOP24
C8051F851-C-GM	4 kB	25	0.50	16	I ² C; SPI; UART	4	3	±2%	12-bit, 15-ch., 200 ksp/s	1	1	1	✓	✓	2	QFN20
C8051F851-C-GU	4 kB	25	0.50	18	I ² C; SPI; UART	4	3	±2%	12-bit, 16-ch., 200 ksp/s	1	1	1	✓	✓	2	QSOP24
C8051F852-C-GM	2 kB	25	0.25	16	I ² C; SPI; UART	4	3	±2%	12-bit, 15-ch., 200 ksp/s	1	1	1	✓	✓	2	QFN20
C8051F852-C-GU	2 kB	25	0.25	18	I ² C; SPI; UART	4	3	±2%	12-bit, 16-ch., 200 ksp/s	1	1	1	✓	✓	2	QSOP24
C8051F853-C-GM	8 kB	25	0.50	16	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	2	QFN20
C8051F853-C-GU	8 kB	25	0.50	18	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	2	QSOP24
C8051F854-C-GM	4 kB	25	0.50	16	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	2	QFN20
C8051F854-C-GU	4 kB	25	0.50	18	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	2	QSOP24

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	SPI	TEMP SENSOR	VREF	CO MP.	PACKAGE
C8051F855-C-GM	2 kB	25	0.25	16	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	2	QFN20
C8051F855-C-GU	2 kB	25	0.25	18	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	2	QSOP24
C8051F860-C-GS	8 kB	25	0.50	13	I ² C; SPI; UART	4	3	±2%	12-bit, 12-ch., 200 ksp/s	1	1	1	✓	✓	2	SOIC16
C8051F861-C-GS	4 kB	25	0.50	13	I ² C; SPI; UART	4	3	±2%	12-bit, 12-ch., 200 ksp/s	1	1	1	✓	✓	2	SOIC16
C8051F862-C-GS	2 kB	25	0.25	13	I ² C; SPI; UART	4	3	±2%	12-bit, 12-ch., 200 ksp/s	1	1	1	✓	✓	2	SOIC16
C8051F863-C-GS	8 kB	25	0.50	13	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	2	SOIC16
C8051F864-C-GS	4 kB	25	0.50	13	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	2	SOIC16
C8051F865-C-GS	2 kB	25	0.25	13	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	2	SOIC16
C8051T600-GM	8 kB OTP	25	0.25	8	I ² C; UART	3	3	±2%	10-bit, 8-ch., 500 ksp/s	1	1	0	✓	—	1	QFN11
C8051T600-GS	8 kB OTP	25	0.25	8	I ² C; UART	3	3	±2%	10-bit, 8-ch., 500 ksp/s	1	1	0	✓	—	1	SOIC14
C8051T601-GM	8 kB OTP	25	0.25	8	I ² C; UART	3	3	±2%	—	1	1	0	—	—	1	QFN11
C8051T601-GS	8 kB OTP	25	0.25	8	I ² C; UART	3	3	±2%	—	1	1	0	—	—	1	SOIC14
C8051T602-GM	4 kB OTP	25	0.25	8	I ² C; UART	3	3	±2%	10-bit, 8-ch., 500 ksp/s	1	1	0	✓	—	1	QFN11
C8051T602-GS	4 kB OTP	25	0.25	8	I ² C; UART	3	3	±2%	10-bit, 8-ch., 500 ksp/s	1	1	0	✓	—	1	SOIC14
C8051T603-GM	4 kB OTP	25	0.25	8	I ² C; UART	3	3	±2%	—	1	1	0	—	—	1	QFN11
C8051T603-GS	4 kB OTP	25	0.25	8	I ² C; UART	3	3	±2%	—	1	1	0	—	—	1	SOIC14
C8051T604-GM	2 kB OTP	25	0.25	8	I ² C; UART	3	3	±2%	10-bit, 8-ch., 500 ksp/s	1	1	0	✓	—	1	QFN11
C8051T604-GS	2 kB OTP	25	0.25	8	I ² C; UART	3	3	±2%	10-bit, 8-ch., 500 ksp/s	1	1	0	✓	—	1	SOIC14
C8051T605-GM	2 kB OTP	25	0.25	8	I ² C; UART	3	3	±2%	—	1	1	0	—	—	1	QFN11
C8051T605-GS	2 kB OTP	25	0.25	8	I ² C; UART	3	3	±2%	—	1	1	0	—	—	1	SOIC14
C8051T606-GM	1.5 kB OTP	25	0.125	6	I ² C; UART	3	3	±2%	—	1	1	0	—	—	1	QFN11
C8051T606-GT	1.5 kB OTP	25	0.125	6	I ² C; UART	3	3	±2%	—	1	1	0	—	—	1	MSOP10
C8051T606-ZM	1.5 kB OTP	25	0.125	6	I ² C; UART	3	3	±2%	—	1	1	0	—	—	1	QFN10
C8051T610-GQ	16 kB OTP	25	1.25	29	I ² C; SPI; UART	4	5	±2%	10-bit, 21-ch., 500 ksp/s	1	1	1	✓	—	2	QFP32
C8051T611-GM	16 kB OTP	25	1.25	25	I ² C; SPI; UART	4	5	±2%	10-bit, 17-ch., 500 ksp/s	1	1	1	✓	—	2	QFN28
C8051T612-GQ	8 kB OTP	25	1.25	29	I ² C; SPI; UART	4	5	±2%	10-bit, 21-ch., 500 ksp/s	1	1	1	✓	—	2	QFP32
C8051T613-GM	8 kB OTP	25	1.25	25	I ² C; SPI; UART	4	5	±2%	10-bit, 17-ch., 500 ksp/s	1	1	1	✓	—	2	QFN28
C8051T614-GQ	8 kB OTP	25	1.25	29	I ² C; SPI; UART	4	5	±2%	—	1	1	1	—	—	2	QFP32
C8051T615-GM	8 kB OTP	25	1.25	25	I ² C; SPI; UART	4	5	±2%	—	1	1	1	—	—	2	QFN28
C8051T616-GM	16 kB OTP	25	1.25	21	I ² C; SPI; UART	4	5	±2%	10-bit, 13-ch., 500 ksp/s	1	1	1	✓	—	2	QFN24
C8051T617-GM	16 kB OTP	25	1.25	21	I ² C; SPI; UART	4	5	±2%	—	1	1	1	—	—	2	QFN24
C8051T320-GQ	16 kB	48	1.25	25	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 16-ch., 500 ksp/s	2	1	1	✓	✓	2	QFP48
C8051T321-GM	16 kB	48	1.25	21	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 16-ch., 500 ksp/s	2	1	1	✓	✓	2	QFN28
C8051T322-GQ	16 kB	48	1.25	25	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	—	2	1	1	—	—	2	QFP32
C8051T323-GM	16 kB	48	1.25	21	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	—	2	1	1	—	—	2	QFN28
C8051T326-GM	16 kB	48	1.25	15	UART; USB	4	5	±1.5%	—	1	0	0	—	—	—	QFN28
C8051T327-GM	16 kB	48	1.25	15	UART; USB	4	5	±1.5%	—	1	0	0	—	—	—	QFN28
C8051T620-GM	16 kB	48	1.25	24	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 20-ch., 500 ksp/s	2	1	1	✓	✓	2	QFN32

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	SPI	TEMP SENSOR	VREF	CO MP.	PACKAGE
C8051T621-GM	16 kB	48	1.25	24	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	—	2	1	1	—	—	2	QFN32
C8051T622-GM	16 kB	48	1.25	16	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	—	2	1	1	—	—	—	QFN24
C8051T623-GM	8 kB	48	1.25	16	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	—	2	1	1	—	—	—	QFN24
C8051T626	64 kB	48	3.328	24	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 21-ch., 500 ksps	2	1	1	✓	✓	2	QFN32
C8051T627	32 kB	48	3.328	24	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 21-ch., 500 ksps	2	1	1	✓	✓	2	QFN32
C8051T630-GM	8 kB OTP	25	0.75	17	I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 500 ksps	1	1	1	✓	✓	1	QFN20
C8051T631-GM	8 kB OTP	25	0.75	17	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN20
C8051T632-GM	4 kB OTP	25	0.75	17	I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 500 ksps	1	1	1	✓	✓	1	QFN20
C8051T633-GM	4 kB OTP	25	0.75	17	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN20
C8051T634-GM	2 kB OTP	25	0.75	17	I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 500 ksps	1	1	1	✓	✓	1	QFN20
C8051T635-GM	2 kB OTP	25	0.75	17	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN20

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PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	UART	I ² C	SPI	TEMP SENSOR	VREF	CO MP.	PACKAGE
C8051F901-GM	8 kB	25	0.75	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 15-ch., 300 ksps	1	1	2	✓	✓	2	QFN24
C8051F901-GU	8 kB	25	0.75	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 15-ch., 300 ksps	1	1	2	✓	✓	2	QSOP24
C8051F902-GM	8 kB	25	0.75	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 15-ch., 75 ksps	1	1	2	✓	✓	2	QFN24
C8051F902-GU	8 kB	25	0.75	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 15-ch., 75 ksps	1	1	2	✓	✓	2	QSOP24
C8051F911-GM	16 kB	25	0.75	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 15-ch., 300 ksps	1	1	2	✓	✓	2	QFN24
C8051F911-GU	16 kB	25	0.75	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 15-ch., 300 ksps	1	1	2	✓	✓	2	QSOP24
C8051F912-GM	16 kB	25	0.75	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 15-ch., 75 ksps	1	1	2	✓	✓	2	QFN24
C8051F912-GU	16 kB	25	0.75	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 15-ch., 75 ksps	1	1	2	✓	✓	2	QSOP24
C8051F920-GM	32 kB	25	4.25	24	EMIF; I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 23-ch., 300 ksps	1	1	2	✓	✓	2	QFN32
C8051F920-GQ	32 kB	25	4.25	24	EMIF; I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 23-ch., 300 ksps	1	1	2	✓	✓	2	QFP32
C8051F921-GM	32 kB	25	4.25	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 15-ch., 300 ksps	1	1	2	✓	✓	2	QFN24
C8051F930-GM	64 kB	25	4.25	24	EMIF; I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 23-ch., 300 ksps	1	1	2	✓	✓	2	QFN32
C8051F930-GQ	64 kB	25	4.25	24	EMIF; I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 23-ch., 300 ksps	1	1	2	✓	✓	2	QFP32
C8051F931-GM	64 kB	25	4.25	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 15-ch., 300 ksps	1	1	2	✓	✓	2	QFN24
C8051F960-B-GM	128 kB	25	8	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	2	✓	✓	2	QFN76
C8051F960-B-GQ	128 kB	25	8	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	2	✓	✓	2	QFP80
C8051F961-B-GM	128 kB	25	8	34	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	2	✓	✓	2	QFN40
C8051F962-B-GM	128 kB	25	8	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	2	✓	✓	2	QFN76
C8051F962-B-GQ	128 kB	25	8	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	2	✓	✓	2	QFP80
C8051F963-B-GM	128 kB	25	8	34	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	2	✓	✓	2	QFN40
C8051F964-B-GM	64 kB	25	8	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	2	✓	✓	2	QFN76
C8051F964-B-GQ	64 kB	25	8	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	2	✓	✓	2	QFP80
C8051F965-B-GM	64 kB	25	8	34	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	2	✓	✓	2	QFN40
C8051F966-B-GM	32 kB	25	8	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	2	✓	✓	2	QFN76

PART NUMBER	FLASH MEMORY	MHZ	RAM (KB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/PCA	INT. OSC	ADC	UART	I ² C	SPI	TEMP SENSOR	VREF	CO MP.	PACKAGE
C8051F966-B-GQ	32 kB	25	8	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	2	✓	✓	2	QFP80
C8051F967-B-GM	32 kB	25	8	34	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	2	✓	✓	2	QFN40
C8051F968-B-GM	16 kB	25	4.25	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	2	✓	✓	2	QFN76
C8051F968-B-GQ	16 kB	25	4.25	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	2	✓	✓	2	QFP80
C8051F969-B-GM	16 kB	25	4.25	34	I ² C; HS I ² C Slave; SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	1	1	1	✓	✓	2	QFN40
C8051F970-A-GM	32 kB	25	8	43	I ² C; HS I ² C Slave; SPI; UART	4	3	±2%	10-bit, 43-ch., 300 ksps	1	1	1	✓	✓	—	QFN48
C8051F971-A-GM	32 kB	25	8	28	I ² C; HS I ² C Slave; SPI; UART	4	3	±2%	10-bit, 28-ch., 300 ksps	1	1	1	✓	✓	—	QFN32
C8051F972-A-GM	32 kB	25	8	19	I ² C; HS I ² C Slave; SPI; UART	4	3	±2%	10-bit, 19-ch., 300 ksps	1	1	1	✓	✓	—	QFN24
C8051F973-A-GM	16 kB	25	4	43	I ² C; HS I ² C Slave; SPI; UART	4	3	±2%	10-bit, 43-ch., 300 ksps	1	1	1	✓	✓	—	QFN48
C8051F974-A-GM	16 kB	25	4	28	I ² C; HS I ² C Slave; SPI; UART	4	3	±2%	10-bit, 28-ch., 300 ksps	1	1	1	✓	✓	—	QFN32
C8051F975-A-GM	16 kB	25	4	19	I ² C; HS I ² C Slave; SPI; UART	4	3	±2%	10-bit, 19-ch., 300 ksps	1	1	1	✓	✓	—	QFN24
C8051F980-GM	8 kB	25	0.5	16	UART	4	3	±2%	12-bit, 9-ch., 75 ksps	1	0	0	✓	✓	1	QFN20
C8051F981-GM	8 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN20
C8051F982-GM	4 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%	10-bit, 9-ch., 300 ksps	1	1	1	✓	✓	1	QFN20
C8051F983-GM	4 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN20
C8051F985-GM	2 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN20
C8051F986-GM	8 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	12-bit, 10-ch., 75 ksps	1	1	1	✓	✓	1	QFN24
C8051F986-GU	8 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	12-bit, 10-ch., 75 ksps	1	1	1	✓	✓	1	QSOP24
C8051F987-GM	8 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN24
C8051F987-GU	8 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QSOP24
C8051F988-GM	4 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	10-bit, 10-ch., 300 ksps	1	1	1	✓	✓	1	QFN24
C8051F988-GU	4 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	10-bit, 10-ch., 300 ksps	1	1	1	✓	✓	1	QSOP24
C8051F989-GM	4 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN24
C8051F989-GU	4 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QSOP24
C8051F990-GM	8 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%	12-bit, 9-ch., 75 ksps	1	1	1	✓	✓	1	QFN20
C8051F991-GM	8 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN20
C8051F996-GM	8 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	12-bit, 10-ch., 75 ksps	1	1	1	✓	✓	1	QFN24
C8051F996-GU	8 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	12-bit, 10-ch., 75 ksps	1	1	1	✓	✓	1	QSOP24
C8051F997-GM	8 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QFN24
C8051F997-GU	8 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	—	1	1	1	—	—	1	QSOP24

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EFM32™ Zero Gecko

PART NUMBER (X = FLASH SIZE)	PACKAGE TYPE	ARM CORTEX CPU	FLASH (KB)	RAM (KB)	GPIO (PINS)	USB	LCD	USART			I ² C	TIMER (PWM)	LETIMER	RTC	PCNT	WATCHDOG	ADC (PINS)	DAC (PINS)	ACMP (PINS)	OPAMP	AES	EBI	TFT	LESENSE
								SPI I2S	UART	LEUART														
EFM32ZG108FX - QFN24	QFN24	M0+	4/8/16/32	2/4	17	—	—	1	—	1	1	2 (6)	—	1	1	1	—	—	1 (2)	—	—	—	—	—
EFM32ZG110FX - QFN24	QFN24	M0+	4/8/16/32	2/4	17	—	—	1	—	1	1	2 (6)	—	1	1	1	1 (2)	—	1 (2)	—	✓	—	—	—
EFM32ZG210FX - QFN32	QFN32	M0+	4/8/16/32	2/4	24	—	—	1	—	1	1	2 (6)	—	1	1	1	1 (4)	—	1 (2)	—	✓	—	—	—
EFM32ZG222FX - QFP48	QFP48	M0+	4/8/16/32	2/4	37	—	—	1	—	1	1	2 (6)	—	1	1	1	1 (4)	—	1 (5)	—	✓	—	—	—

EFM32 Happy Gecko

PART NUMBER (X = FLASH SIZE)	PACKAGE TYPE	ARM CORTEX CPU	FLASH (KB)	RAM (KB)	GPIO (PINS)	USB	LCD	USART			I ² C	TIMER (PWM)	LETIMER	RTC	PCNT	WATCHDOG	ADC (PINS)	DAC (PINS)	ACMP (PINS)	OPAMP	AES	EBI	TFT	LESENSE
								SPI I2S	UART	LEUART														
EFM32HG108FX - QFN24	QFN24	M0+	32/64	4/8	17	—	—	2	—	1	1	3 (9)	—	1	1	1	—	—	1 (2)	—	—	—	—	—
EFM32HG110FX - QFN24	QFN24	M0+	32/64	4/8	17	—	—	2	—	1	1	3 (9)	—	1	1	1	1 (2)	—	1 (2)	—	✓	—	—	—
EFM32HG210FX - QFN32	QFN32	M0+	32/64	4/8	24	—	—	2	—	1	1	3 (9)	—	1	1	1	1 (4)	—	1 (2)	—	✓	—	—	—
EFM32HG222FX - QFP48	QFP48	M0+	32/64	4/8	37	—	—	2	—	1	1	3 (9)	—	1	1	1	1 (4)	—	1 (5)	—	✓	—	—	—
EFM32HG308FX - QFN24	QFN24	M0+	32/64	8	15	✓	—	2	—	1	1	3 (9)	—	1	1	1	—	—	1 (2)	—	—	—	—	—
EFM32HG309FX - QFN24	QFN24	M0+	32/64	8	15	✓	—	2	—	1	1	3 (9)	—	1	1	1	1 (2)	—	1 (2)	—	✓	—	—	—
EFM32HG310FX - QFN32	QFN32	M0+	32/64	8	22	✓	—	2	—	1	1	3 (9)	—	1	1	1	1 (3)	—	1 (2)	—	✓	—	—	—
EFM32HG321FX - QFP48	QFP48	M0+	32/64	8	35	✓	—	2	—	1	1	3 (9)	—	1	1	1	1 (4)	—	1 (5)	—	—	—	—	—
EFM32HG322FX - QFP48	QFP48	M0+	32/64	8	35	✓	—	2	—	1	1	3 (9)	—	1	1	1	1 (4)	—	1 (5)	—	✓	—	—	—
EFM32HG350FX - CSP36	CSP36	M0+	32/64	8	22	✓	—	2	—	1	1	3 (9)	—	1	1	1	1 (3)	—	1 (2)	—	✓	—	—	—

EFM32 Tiny Gecko

PART NUMBER (X = FLASH SIZE)	PACKAGE TYPE	ARM CORTEX CPU	FLASH (KB)	RAM (KB)	GPIO (PINS)	USB	LCD	USART			I ² C	TIMER (PWM)	LETIMER	RTC	PCNT	WATCHDOG	ADC (PINS)	DAC (PINS)	ACMP (PINS)	OPAMP	AES	EBI	TFT	LESENSE
								SPI I2S	UART	LEUART														
EFM32TG108FX - QFN24	QFN24	M3	4/8/16/32	2/4	17	—	—	1	—	1	1	2 (6)	1	1	1	1	—	—	2 (4)	—	—	—	—	✓*
EFM32TG110FX - QFN24	QFN24	M3	4/8/16/32	2/4	17	—	—	2	—	1	1	2 (6)	1	1	1	1	1 (2)	2 (1)	2 (4)	3	✓	—	—	✓
EFM32TG210FX - QFN32	QFN32	M3	8/16/32	2/4	24	—	—	2	—	1	1	2 (6)	1	1	1	1	1 (4)	2 (1)	2 (5)	3	✓	—	—	✓
EFM32TG222FX - QFP48	QFP48	M3	8/16/32	2/4	37	—	—	2	—	1	1	2 (6)	1	1	1	1	1 (4)	2 (1)	2 (12)	3	✓	—	—	✓
EFM32TG225FX - BGA48	BGA48	M3	8/16/32	2/4	37	—	—	2	—	1	1	2 (6)	1	1	1	1	1 (4)	2 (1)	2 (12)	3	✓	—	—	✓
EFM32TG230FX - QFN64	QFN64	M3	8/16/32	2/4	56	—	—	2	—	1	1	2 (6)	1	1	1	1	1 (8)	2 (2)	2 (16)	3	✓	—	—	✓
EFM32TG232FX - QFP64	QFP64	M3	8/16/32	2/4	53	—	—	2	—	1	1	2 (6)	1	1	1	1	1 (8)	2 (1)	2 (16)	3	✓	—	—	✓
EFM32TG822FX - QFP48	QFP48	M3	8/16/32	2/4	37	—	8x11	2	—	1	1	2 (6)	1	1	1	1	1 (4)	2 (1)	2 (4)	3	✓	—	—	✓
EFM32TG825FX - BGA48	BGA48	M3	8/16/32	2/4	37	—	8x11	2	—	1	1	2 (6)	1	1	1	1	1 (4)	2 (1)	2 (4)	3	✓	—	—	✓
EFM32TG840FX - QFN64	QFN64	M3	8/16/32	2/4	56	—	8x20	2	—	1	1	2 (6)	1	1	1	1	1 (8)	2 (2)	2 (8)	3	✓	—	—	✓
EFM32TG842FX - QFP64	QFP64	M3	8/16/32	2/4	53	—	8x18	2	—	1	1	2 (6)	1	1	1	1	1 (8)	2 (1)	2 (8)	3	✓	—	—	✓

*Reduced LESENSE functionality without DAC | **Reduced LCD Controller functionality combined with EBI (External Bus Interface)

EFM32 Gecko

PART NUMBER (X = FLASH SIZE)	PACKAGE TYPE	ARM CORTEX CPU	FLASH (KB)	RAM (KB)	GPIO (PINS)	USB	LCD	USART			I ² C	TIMER			ADC (PINS)	DAC (PINS)	ACMP (PINS)	OPAMP	AES	EBI	TFT	LESENSE
								SPI I2S	UART	LEUART		PWM	LETIMER	RTC								
EFM32G200FX - QFN32	QFN32	M3	16/32/64	8/16	24	—	—	2	—	1	1	2 (6)	1	1	1	1 (4)	1 (1)	2 (5)	—	—	—	—
EFM32G210FX - QFN32	QFN32	M3	128	16	24	—	—	2	—	1	1	2 (6)	1	1	1	1 (4)	1 (1)	2 (5)	—	✓	—	—
EFM32G222FX - QFP48	QFP48	M3	32/64/128	8/16	37	—	—	2	—	1	1	3 (9)	1	1	2	1 (4)	1 (1)	2 (12)	—	✓	—	—
EFM32G230FX - QFN64	QFN64	M3	32/64/128	8/16	56	—	—	3	—	2	1	3 (9)	1	1	3	1 (8)	2 (2)	2 (16)	—	✓	—	—
EFM32G232FX - QFP64	QFP64	M3	32/64/128	8/16	53	—	—	3	—	2	1	3 (9)	1	1	3	1 (8)	1 (1)	2 (16)	—	✓	—	—
EFM32G280FX - QFP100	QFP100	M3	32/64/128	8/16	86	—	—	3	1	2	1	3 (9)	1	1	3	1 (8)	2 (2)	2 (16)	—	✓	✓	—
EFM32G290FX - BGA112	BGA112	M3	32/64/128	8/16	90	—	—	3	1	2	1	3 (9)	1	1	3	1 (8)	2 (2)	2 (16)	—	✓	✓	—
EFM32G840FX - QFN64	QFN64	M3	32/64/128	8/16	56	—	4x24	3	—	2	1	3 (9)	1	1	3	1 (8)	2 (2)	2 (8)	—	✓	—	—
EFM32G842FX - QFP64	QFP64	M3	32/64/128	8/16	53	—	4x22	3	—	2	1	3 (9)	1	1	3	1 (8)	1 (1)	2 (8)	—	✓	—	—
EFM32G880FX - QFP100	QFP100	M3	32/64/128	8/16	86	—	4x40	3	1	2	1	3 (9)	1	1	3	1 (8)	2 (2)	2 (16)	—	✓	✓**	—
EFM32G890FX - BGA112	BGA112	M3	32/64/128	8/16	90	—	4x40	3	1	2	1	3 (9)	1	1	3	1 (8)	2 (2)	2 (16)	—	✓	✓**	—

EFM32 Leopard Gecko

PART NUMBER (X = FLASH SIZE)	PACKAGE TYPE	ARM CORTEX CPU	FLASH (KB)	RAM (KB)	GPIO (PINS)	USB	LCD	USART			I ² C	TIMER			ADC (PINS)	DAC (PINS)	ACMP (PINS)	OPAMP	AES	EBI	TFT	LESENSE	
								SPI I2S	UART	LEUART		PWM	LETIMER	RTC									PCNT
EFM32LG230FX - QFN64	QFN64	M3	64/128/256	32	56	—	—	3	—	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (16)	3	✓	—	—	✓
EFM32LG232FX - QFP64	QFP64	M3	64/128/256	32	53	—	—	3	—	2	2	4 (11)	1	1	3	1 (8)	2 (2)	2 (16)	3	✓	—	—	✓
EFM32LG280FX - QFP100	QFP100	M3	64/128/256	32	86	—	—	3	2	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (16)	3	✓	✓	✓	✓
EFM32LG290FX - BGA112	BGA112	M3	64/128/256	32	90	—	—	3	2	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (16)	3	✓	✓	✓	✓
EFM32LG295FX - BGA120	BGA120	M3	64/128/256	32	93	—	—	3	2	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (16)	3	✓	✓	✓	✓
EFM32LG330FX - QFN64	QFN64	M3	64/128/256	32	53	✓	—	3	—	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (12)	3	✓	—	—	✓
EFM32LG332FX - QFP64	QFP64	M3	64/128/256	32	50	✓	—	3	—	2	2	4 (11)	1	1	3	1 (8)	2 (2)	1 (4)	3	✓	—	—	✓
EFM32LG380FX - QFP100	QFP100	M3	64/128/256	32	83	✓	—	3	2	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (12)	3	✓	✓	✓	✓
EFM32LG360FX - CSP81	CSP81	M3	64/128/256	32	65	✓	—	3	2	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (16)	3	✓	—	—	✓
EFM32LG390FX - BGA112	BGA112	M3	64/128/256	32	87	✓	—	3	2	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (12)	3	✓	✓	✓	✓
EFM32LG395FX - BGA120	BGA120	M3	64/128/256	32	93	✓	—	3	2	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (16)	3	✓	✓	✓	✓
EFM32LG840FX - QFN64	QFN64	M3	64/128/256	32	56	—	8x20	3	—	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (8)	3	✓	—	—	✓
EFM32LG842FX - QFP64	QFP64	M3	64/128/256	32	53	—	8x18	3	—	2	2	4 (11)	1	1	3	1 (8)	2 (2)	2 (8)	3	✓	—	—	✓
EFM32LG880FX - QFP100	QFP100	M3	64/128/256	32	86	—	8x36	3	2	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (16)	3	✓	✓**	✓	✓
EFM32LG890FX - BGA112	BGA112	M3	64/128/256	32	90	—	8x36	3	2	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (16)	3	✓	✓**	✓	✓
EFM32LG895FX - BGA120	BGA120	M3	64/128/256	32	93	—	8x36	3	2	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (16)	3	✓	✓**	✓	✓
EFM32LG940FX - QFN64	QFN64	M3	64/128/256	32	53	✓	8x18	3	—	2	2	4 (12)	1	1	3	1 (8)	2 (2)	1 (4)	3	✓	—	—	✓
EFM32LG942FX - QFP64	QFP64	M3	64/128/256	32	50	✓	8x16	3	—	2	2	4 (11)	1	1	3	1 (8)	2 (2)	1 (4)	3	✓	—	—	✓
EFM32LG980FX - QFP100	QFP100	M3	64/128/256	32	83	✓	8x34	3	2	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (12)	3	✓	✓**	✓	✓
EFM32LG990FX - BGA112	BGA112	M3	64/128/256	32	87	✓	8x34	3	2	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (12)	3	✓	✓**	✓	✓
EFM32LG995FX - BGA120	BGA120	M3	64/128/256	32	93	✓	8x36	3	2	2	2	4 (12)	1	1	3	1 (8)	2 (2)	2 (16)	3	✓	✓**	✓	✓

*Reduced LESENSE functionality without DAC | **Reduced LCD Controller functionality combined with EBI (External Bus Interface)

EFM32 Giant Gecko

PART NUMBER (X = FLASH SIZE)	PACKAGE TYPE	ARM CORTEX CPU	FLASH (KB)	RAM (KB)	GPIO (PINS)	USB	LCD	USART			I ² C	TIMER				ADC (PINS)	DAC (PINS)	ACMP (PINS)	OPAMP	AES	EBI	TFT	LESENSE	
								SPI I2S	UART	LEUART		PWM	LETIMER	RTC	PCNT									WATCHDOG
EFM32GG230FX - QFN64	QFN64	M3	512/1024	128	56	—	—	3	—	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	—	—	✓
EFM32GG232FX - QFP64	QFP64	M3	512/1024	128	53	—	—	3	—	2	2	4 (11)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	—	—	✓
EFM32GG280FX - QFP100	QFP100	M3	512/1024	128	86	—	—	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓	✓	✓
EFM32GG290FX - BGA112	BGA112	M3	512/1024	128	90	—	—	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓	✓	✓
EFM32GG295FX - BGA120	BGA120	M3	512/1024	128	93	—	—	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓	✓	✓
EFM32GG330FX - QFN64	QFN64	M3	512/1024	128	53	✓	—	3	—	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	✓	—	—	✓
EFM32GG332FX - QFP64	QFP64	M3	512/1024	128	50	✓	—	3	—	2	2	4 (11)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	✓	—	—	✓
EFM32GG380FX - QFP100	QFP100	M3	512/1024	128	83	✓	—	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	✓	✓	✓	✓
EFM32GG390FX - BGA112	BGA112	M3	512/1024	128	87	✓	—	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	✓	✓	✓	✓
EFM32GG395FX - BGA120	BGA120	M3	512/1024	128	93	✓	—	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓	✓	✓
EFM32GG840FX - QFN64	QFN64	M3	512/1024	128	56	—	8x20	3	—	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (8)	3	✓	—	—	✓
EFM32GG842FX - QFP64	QFP64	M3	512/1024	128	53	—	8x18	3	—	2	2	4 (11)	1	1	3	1	1 (8)	2 (2)	2 (8)	3	✓	—	—	✓
EFM32GG880FX - QFP100	QFP100	M3	512/1024	128	86	—	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓**	✓	✓
EFM32GG890FX - BGA112	BGA112	M3	512/1024	128	90	—	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓**	✓	✓
EFM32GG895FX - BGA120	BGA120	M3	512/1024	128	93	—	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓**	✓	✓
EFM32GG940FX - QFN64	QFN64	M3	512/1024	128	53	✓	8x18	3	—	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	✓	—	—	✓
EFM32GG942FX - QFP64	QFP64	M3	512/1024	128	50	✓	8x16	3	—	2	2	4 (11)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	✓	—	—	✓
EFM32GG980FX - QFP100	QFP100	M3	512/1024	128	83	✓	8x34	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	✓	✓**	✓	✓
EFM32GG990FX - BGA112	BGA112	M3	512/1024	128	87	✓	8x34	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	✓	✓**	✓	✓
EFM32GG995FX - BGA120	BGA120	M3	512/1024	128	93	✓	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓**	✓	✓

EFM32 Wonder Gecko (Floating Point Unit / DSP)

PART NUMBER (X = FLASH SIZE)	PACKAGE TYPE	ARM CORTEX CPU	FLASH (KB)	RAM (KB)	GPIO (PINS)	USB	LCD	USART			I ² C	TIMER				ADC (PINS)	DAC (PINS)	ACMP (PINS)	OPAMP	AES	EBI	TFT	LESENSE	
								SPI I2S	UART	LEUART		PWM	LETIMER	RTC	PCNT									WATCHDOG
EFM32WG230FX - QFN64	QFN64	M4	64/128/256	32	56	—	—	3	—	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	—	—	✓
EFM32WG232FX - QFP64	QFP64	M4	64/128/256	32	53	—	—	3	—	2	2	4 (11)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	—	—	✓
EFM32WG280FX - QFP100	QFP100	M4	64/128/256	32	86	—	—	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓	✓	✓
EFM32WG290FX - BGA112	BGA112	M4	64/128/256	32	90	—	—	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓	✓	✓
EFM32WG295FX - BGA120	BGA120	M4	64/128/256	32	93	—	—	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓	✓	✓
EFM32WG330FX - QFN64	QFN64	M4	64/128/256	32	53	✓	—	3	—	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	✓	—	—	✓
EFM32WG332FX - QFP64	QFP64	M4	64/128/256	32	50	✓	—	3	—	2	2	4 (11)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	✓	—	—	✓
EFM32WG360FXG - CSP81	CSP81	M4	64/128/256	32	65	✓	—	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	—	—	✓
EFM32WG380FX - QFP100	QFP100	M4	64/128/256	32	83	✓	—	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	✓	✓	✓	✓
EFM32WG390FX - BGA112	BGA112	M4	64/128/256	32	87	✓	—	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	✓	✓	✓	✓
EFM32WG395FX - BGA120	BGA120	M4	64/128/256	32	93	✓	—	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓	✓	✓
EFM32WG840FX - QFN64	QFN64	M4	64/128/256	32	56	—	8x20	3	—	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (8)	3	✓	—	—	✓

*Reduced LESENSE functionality without DAC | **Reduced LCD Controller functionality combined with EBI (External Bus Interface)

PART NUMBER (X = FLASH SIZE)	PACKAGE TYPE	ARM CORTEX CPU	FLASH (KB)	RAM (KB)	GPIO (PINS)	USB		LCD	USART			FC	TIMER				ADC (PINS)	DAC (PINS)	ACMP (PINS)	OPAMP	AES	EBI	TFT	LESENSE
						USB	LCD		SPI	I2S	UART		LEUART	PWM	LETIMER	RTC								
EFM32WG842FX - QFP64	QFP64	M4	64/128/256	32	53	—	8x18	3	—	2	2	4 (11)	1	1	3	1	1 (8)	2 (2)	2 (8)	3	✓	—	—	✓
EFM32WG880FX - QFP100	QFP100	M4	64/128/256	32	86	—	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓**	✓	✓
EFM32WG890FX - BGA112	BGA112	M4	64/128/256	32	90	—	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓**	✓	✓
EFM32WG895FX - BGA120	BGA120	M4	64/128/256	32	93	—	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓**	✓	✓
EFM32WG940FX - QFN64	QFN64	M4	64/128/256	32	53	✓	8x18	3	—	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	✓	—	—	✓
EFM32WG942FX - QFP64	QFP64	M4	64/128/256	32	50	✓	8x16	3	—	2	2	4 (11)	1	1	3	1	1 (8)	2 (2)	1 (4)	3	✓	—	—	✓
EFM32WG980FX - QFP100	QFP100	M4	64/128/256	32	83	✓	8x34	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	✓	✓**	✓	✓
EFM32WG990FX - BGA112	BGA112	M4	64/128/256	32	87	✓	8x34	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (12)	3	✓	✓**	✓	✓
EFM32WG995FX - BGA120	BGA120	M4	64/128/256	32	93	✓	8x36	3	2	2	2	4 (12)	1	1	3	1	1 (8)	2 (2)	2 (16)	3	✓	✓**	✓	✓

*Reduced LESENSE functionality without DAC | **Reduced LCD Controller functionality combined with EBI (External Bus Interface)

