

Product Selector Tables

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EFM32™ Zero Gecko 32-bit MCU

PART NUMBER	CORE	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	DEBUG I/F	сомр.	PACKAGE
EFM32ZG108F32-QFN24	M0+	32 kB	24	4	17	I ² C; USART	2	_	±2%	_	_	SW	1	QFN24
EFM32ZG110F32-QFN24	M0+	32 kB	24	4	17	I ² C; USART	2	_	±2%	12-bit, 1-ch., 1 Msps	_	SW	1	QFN24
EFM32ZG210F32-QFN32	M0+	32 kB	24	4	24	I ² C; USART	2	_	±2%	12-bit, 1-ch., 1 Msps	_	SW	1	QFN32
EFM32ZG222F32-QFP48	M0+	32 kB	24	4	37	I ² C; USART	2	_	±2%	12-bit, 1-ch., 1 Msps	_	SW	1	QFP48
EFM32ZG108F16-QFN24	M0+	16 kB	24	4	17	I ² C; USART	2	_	±2%	_	_	SW	1	QFN24
EFM32ZG110F16-QFN24	M0+	16 kB	24	4	17	I ² C; USART	2	_	±2%	12-bit, 1-ch., 1 Msps	_	SW	1	QFN24
EFM32ZG210F16-QFN32	M0+	16 kB	24	4	24	I ² C; USART	2	_	±2%	12-bit, 1-ch., 1 Msps	_	SW	1	QFN32
EFM32ZG222F16-QFP48	M0+	16 kB	24	4	37	I ² C; USART	2	_	±2%	12-bit, 1-ch., 1 Msps	_	SW	1	QFP48
EFM32ZG108F8-QFN24	M0+	8 kB	24	2	17	I ² C; USART	2	_	±2%	_	_	SW	1	QFN24
EFM32ZG110F8-QFN24	M0+	8 kB	24	2	17	I ² C; USART	2	_	±2%	12-bit, 1-ch., 1 Msps	_	SW	1	QFN24
EFM32ZG210F8-QFN32	M0+	8 kB	24	2	24	I ² C; USART	2	_	±2%	12-bit, 1-ch., 1 Msps	_	SW	1	QFN32
EFM32ZG222F8-QFP48	M0+	8 kB	24	2	37	I ² C; USART	2	_	±2%	12-bit, 1-ch., 1 Msps	_	SW	1	QFP48
EFM32ZG108F4-QFN24	M0+	4 kB	24	2	17	I ² C; USART	2	_	±2%	_	_	SW	1	QFN24
EFM32ZG110F4-QFN24	M0+	4 kB	24	2	17	I ² C; USART	2	_	±2%	12-bit, 1-ch., 1 Msps	_	SW	1	QFN24
EFM32ZG210F4-QFN32	M0+	4 kB	24	2	24	I ² C; USART	2	_	±2%	12-bit, 1-ch., 1 Msps	_	SW	1	QFN32
EFM32ZG222F4-QFP48	M0+	4 kB	24	2	37	I ² C; USART	2	_	±2%	12-bit, 1-ch., 1 Msps	_	SW	1	QFP48

EFM32™ Tiny Gecko 32-bit MCU

PART NUMBER	CORE	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	DEBUG I/F	сомр.	PACKAGE
EFM32TG108F32-QFN24	МЗ	32 kB	32	4	17	I ² C; USART	2	_	±2%	_	12-bit	SW	2	QFN24
EFM32TG110F32-QFN24	M3	32 kB	32	4	17	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN24
EFM32TG210F32-QFN32	M3	32 kB	32	4	24	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN32
EFM32TG222F32-QFP48	М3	32 kB	32	4	37	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP48
EFM32TG225F32-BGA48	М3	32 kB	32	4	37	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	BGA48
EFM32TG230F32-QFN64	М3	32 kB	32	4	56	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN64
EFM32TG232F32-QFP64	М3	32 kB	32	4	53	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP64
EFM32TG822F32-QFP48	М3	32 kB	32	4	37	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP48
EFM32TG825F32-BGA48	М3	32 kB	32	4	37	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	BGA48
EFM32TG840F32-QFN64	М3	32 kB	32	4	56	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN64
EFM32TG842F32-QFP64	М3	32 kB	32	4	53	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP64
EFM32TG108F16-QFN24	M3	16 kB	32	4	17	I ² C; USART	2	_	±2%	_	12-bit	SW	2	QFN24
EFM32TG110F16-QFN24	М3	16 kB	32	4	17	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN24
EFM32TG210F16-QFN32	М3	16 kB	32	4	24	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN32

PART NUMBER	CORE	FLASH MEMORY	MHz	RAM (kB)	DIG.	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	DEBUG I/F	сомр.	PACKAGE
EFM32TG222F16-QFP48	M3	16 kB	32	4	37	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	sw	2	QFP48
EFM32TG225F16-BGA48	МЗ	16 kB	32	4	37	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	BGA48
EFM32TG230F16-QFN64	МЗ	16 kB	32	4	56	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN64
EFM32TG232F16-QFP64	М3	16 kB	32	4	53	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP64
EFM32TG822F16-QFP48	M3	16 kB	32	4	37	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP48
EFM32TG825F16-BGA48	M3	16 kB	32	4	37	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	BGA48
EFM32TG840F16-QFN64	M3	16 kB	32	4	56	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN64
EFM32TG842F16-QFP64	M3	16 kB	32	4	53	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP64
EFM32TG108F8-QFN24	МЗ	8 kB	32	2	17	I ² C; USART	2	_	±2%	_	12-bit	SW	2	QFN24
EFM32TG110F8-QFN24	M3	8 kB	32	2	17	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN24
EFM32TG210F8-QFN32	МЗ	8 kB	32	2	24	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN32
EFM32TG222F8-QFP48	M3	8 kB	32	2	37	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP48
EFM32TG225F8-BGA48	M3	8 kB	32	2	37	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	BGA48
EFM32TG230F8-QFN64	M3	8 kB	32	2	56	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN64
EFM32TG232F8-QFP64	M3	8 kB	32	2	53	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP64
EFM32TG822F8-QFP48	M3	8 kB	32	2	37	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP48
EFM32TG825F8-BGA48	М3	8 kB	32	2	37	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	BGA48
EFM32TG840F8-QFN64	М3	8 kB	32	2	56	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	sw	2	QFN64
EFM32TG842F8-QFP64	М3	8 kB	32	2	53	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP64
EFM32TG108F4-QFN24	M3	4 kB	32	2	17	I ² C; USART	2	_	±2%	_	12-bit	SW	2	QFN24
EFM32TG110F4-QFN24	M3	4 kB	32	2	17	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN24

EFM32[™] Gecko 32-bit MCU

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EFM32G210F128-QFN32	М3	128 kB	32	16	24	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 1-ch.	SW	2	QFN32
EFM32G222F128-QFP48	М3	128 kB	32	16	37	I ² C; 2 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 1-ch.	SW	2	QFP48
EFM32G230F128-QFN64	M3	128 kB	32	16	56	I ² C; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN64
EFM32G232F128-QFP64	М3	128 kB	32	16	53	I ² C; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 1-ch.	SW	2	QFP64
EFM32G280F128-QFP100	M3	128 kB	32	16	86	I ² C; UART; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP100
EFM32G290F128-BGA112	М3	128 kB	32	16	90	I ² C; UART; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	BGA112
EFM32G840F128-QFN64	M3	128 kB	32	16	56	I ² C; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN64
EFM32G842F128-QFP64	М3	128 kB	32	16	53	I ² C; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 1-ch.	SW	2	QFP64
EFM32G880F128-QFP100	M3	128 kB	32	16	86	I ² C; UART; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP100
EFM32G890F128-BGA112	М3	128 kB	32	16	90	I ² C; UART; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	BGA112
EFM32G200F64-QFN32	М3	64 kB	32	16	24	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 1-ch.	SW	2	QFN32
EFM32G222F64-QFP48	M3	64 kB	32	16	37	I ² C; 2 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 1-ch.	SW	2	QFP48

PART NUMBER	CORE	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	DEBUG I/F	сомр.	PACKAGE
EFM32G230F64-QFN64	M3	64 kB	32	16	56	I ² C; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN64
EFM32G232F64-QFP64	МЗ	64 kB	32	16	53	I ² C; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 1-ch.	SW	2	QFP64
EFM32G280F64-QFP100	M3	64 kB	32	16	86	I ² C; UART; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP100
EFM32G290F64-BGA112	M3	64 kB	32	16	90	I ² C; UART; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	BGA112
EFM32G840F64-QFN64	M3	64 kB	32	16	56	I ² C; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN64
EFM32G842F64-QFP64	M3	64 kB	32	16	53	I ² C; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 1-ch.	sw	2	QFP64
EFM32G880F64-QFP100	M3	64 kB	32	16	86	I ² C; UART; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP100
EFM32G890F64-BGA112	M3	64 kB	32	16	90	I ² C; UART; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	BGA112
EFM32G200F32-QFN32	M3	32 kB	32	8	24	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 1-ch.	SW	2	QFN32
EFM32G222F32-QFP48	M3	32 kB	32	8	37	I ² C; 2 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 1-ch.	sw	2	QFP48
EFM32G230F32-QFN64	M3	32 kB	32	8	56	I ² C; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN64
EFM32G232F32-QFP64	M3	32 kB	32	8	53	I ² C; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 1-ch.	SW	2	QFP64
EFM32G280F32-QFP100	M3	32 kB	32	8	86	I ² C; UART; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP100
EFM32G290F32-BGA112	M3	32 kB	32	8	90	I ² C; UART; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	BGA112
EFM32G840F32-QFN64	M3	32 kB	32	8	56	I ² C; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFN64
EFM32G842F32-QFP64	M3	32 kB	32	8	53	I ² C; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 1-ch.	SW	2	QFP64
EFM32G880F32-QFP100	M3	32 kB	32	8	86	I ² C; UART; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	QFP100
EFM32G890F32-BGA112	МЗ	32 kB	32	8	90	I ² C; UART; 3 x USART	3	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	SW	2	BGA112
EFM32G200F16-QFN32	M3	16 kB	32	8	24	I ² C; 2 x USART	2	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 1-ch.	SW	2	QFN32

EFM32[™] Leopard Gecko 32-bit MCU

PART NUMBER	CORE	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	DEBUG I/F	сомр.	PACKAGE
EFM32LG230F256-QFN64	М3	256 kB	48	32	56	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32LG232F256-QFP64	М3	256 kB	48	32	53	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32LG280F256-QFP100	МЗ	256 kB	48	32	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32LG290F256-BGA112	МЗ	256 kB	48	32	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32LG295F256-BGA120	МЗ	256 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32LG330F256-QFN64	М3	256 kB	48	32	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32LG332F256-QFP64	М3	256 kB	48	32	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32LG380F256-QFP100	МЗ	256 kB	48	32	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32LG390F256-BGA112	МЗ	256 kB	48	32	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32LG395F256-BGA120	МЗ	256 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32LG840F256-QFN64	М3	256 kB	48	32	56	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64

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EFM32LG842F256-QFP64	МЗ	256 kB	48	32	53	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32LG880F256-QFP100	МЗ	256 kB	48	32	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32LG890F256-BGA112	МЗ	256 kB	48	32	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32LG895F256-BGA120	МЗ	256 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32LG940F256-QFN64	М3	256 kB	48	32	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFN64
EFM32LG942F256-QFP64	М3	256 kB	48	32	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32LG980F256-QFP100	МЗ	256 kB	48	32	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32LG990F256-BGA112	МЗ	256 kB	48	32	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32LG995F256-BGA120	МЗ	256 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32LG230F128-QFN64	МЗ	128 kB	48	32	56	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32LG232F128-QFP64	М3	128 kB	48	32	53	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32LG280F128-QFP100	МЗ	128 kB	48	32	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32LG290F128-BGA112	МЗ	128 kB	48	32	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32LG295F128-BGA120	М3	128 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32LG330F128-QFN64	МЗ	128 kB	48	32	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32LG332F128-QFP64	М3	128 kB	48	32	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32LG380F128-QFP100	М3	128 kB	48	32	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32LG390F128-BGA112	M3	128 kB	48	32	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32LG395F128-BGA120	М3	128 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32LG840F128-QFN64	М3	128 kB	48	32	56	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32LG842F128-QFP64	М3	128 kB	48	32	53	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32LG880F128-QFP100	МЗ	128 kB	48	32	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32LG890F128-BGA112	М3	128 kB	48	32	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32LG895F128-BGA120	МЗ	128 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32LG940F128-QFN64	М3	128 kB	48	32	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFN64
EFM32LG942F128-QFP64	М3	128 kB	48	32	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32LG980F128-QFP100	М3	128 kB	48	32	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32LG990F128-BGA112	М3	128 kB	48	32	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32LG995F128-BGA120	М3	128 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32LG230F64-QFN64	M3	64 kB	48	32	56	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32LG232F64-QFP64	М3	64 kB	48	32	53	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32LG280F64-QFP100	М3	64 kB	48	32	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100

PART NUMBER	CORE	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	DEBUG I/F	сомр.	PACKAGE
EFM32LG290F64-BGA112	M3	64 kB	48	32	90	2 x l ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32LG295F64-BGA120	M3	64 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32LG330F64-QFN64	M3	64 kB	48	32	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32LG332F64-QFP64	M3	64 kB	48	32	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32LG380F64-QFP100	M3	64 kB	48	32	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32LG390F64-BGA112	M3	64 kB	48	32	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32LG395F64-BGA120	M3	64 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32LG840F64-QFN64	M3	64 kB	48	32	56	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32LG842F64-QFP64	M3	64 kB	48	32	53	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32LG880F64-QFP100	M3	64 kB	48	32	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32LG890F64-BGA112	M3	64 kB	48	32	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32LG895F64-BGA120	M3	64 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32LG940F64-QFN64	M3	64 kB	48	32	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFN64
EFM32LG942F64-QFP64	M3	64 kB	48	32	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32LG980F64-QFP100	M3	64 kB	48	32	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32LG990F64-BGA112	M3	64 kB	48	32	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32LG995F64-BGA120	M3	64 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120

EFM32™ Giant Gecko 32-bit MCU

PART NUMBER	CORE	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	DEBUG I/F	сомр.	PACKAGE
EFM32GG230F1024-QFN64	M3	1024 kB	48	128	56	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32GG232F1024-QFP64	МЗ	1024 kB	48	128	53	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32GG280F1024-QFP100	МЗ	1024 kB	48	128	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32GG290F1024-BGA112	МЗ	1024 kB	48	128	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32GG295F1024-BGA120	МЗ	1024 kB	48	128	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32GG330F1024-QFN64	М3	1024 kB	48	128	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32GG332F1024-QFP64	МЗ	1024 kB	48	128	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32GG380F1024-QFP100	МЗ	1024 kB	48	128	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32GG390F1024-BGA112	МЗ	1024 kB	48	128	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32GG395F1024-BGA120	М3	1024 kB	48	128	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32GG840F1024-QFN64	МЗ	1024 kB	48	128	56	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32GG842F1024-QFP64	М3	1024 kB	48	128	53	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32GG880F1024-QFP100	МЗ	1024 kB	48	128	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32GG890F1024-BGA112	МЗ	1024 kB	48	128	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32GG895F1024-BGA120	M3	1024 kB	48	128	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120

PART NUMBER	CORE	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	DEBUG I/F	сомр.	PACKAGE
EFM32GG940F1024-QFN64	МЗ	1024 kB	48	128	53	2 x I ² C; 3 x USART; USB	4	-	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFN64
EFM32GG942F1024-QFP64	МЗ	1024 kB	48	128	50	2 x I ² C; 3 x USART; USB	4	-	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32GG980F1024-QFP100	M3	1024 kB	48	128	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32GG990F1024-BGA112	M3	1024 kB	48	128	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32GG995F1024-BGA120	M3	1024 kB	48	128	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32GG230F512-QFN64	МЗ	512 kB	48	128	56	2 x I ² C; 3 x USART	4	-	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32GG232F512-QFP64	МЗ	512 kB	48	128	53	2 x I ² C; 3 x USART	4	-	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32GG280F512-QFP100	МЗ	512 kB	48	128	86	2 x I ² C; 2 x UART; 3 x USART	4	-	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32GG290F512-BGA112	M3	512 kB	48	128	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32GG295F512-BGA120	МЗ	512 kB	48	128	93	2 x I ² C; 2 x UART; 3 x USART	4	-	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32GG330F512-QFN64	M3	512 kB	48	128	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32GG332F512-QFP64	M3	512 kB	48	128	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32GG380F512-QFP100	M3	512 kB	48	128	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32GG390F512-BGA112	M3	512 kB	48	128	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32GG395F512-BGA120	M3	512 kB	48	128	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32GG840F512-QFN64	МЗ	512 kB	48	128	56	2 x I ² C; 3 x USART	4	-	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32GG842F512-QFP64	M3	512 kB	48	128	53	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32GG880F512-QFP100	M3	512 kB	48	128	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32GG890F512-BGA112	M3	512 kB	48	128	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32GG895F512-BGA120	M3	512 kB	48	128	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32GG940F512-QFN64	M3	512 kB	48	128	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFN64
EFM32GG942F512-QFP64	M3	512 kB	48	128	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32GG980F512-QFP100	M3	512 kB	48	128	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32GG990F512-BGA112	M3	512 kB	48	128	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32GG995F512-BGA120	M3	512 kB	48	128	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	-	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120

EFM32™ Wonder Gecko 32-bit MCU

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PART NUMBER	CORE	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	DEBUG I/F	сомр.	PACKAGE
EFM32WG230F256-QFN64	M4	256 kB	48	32	56	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32WG232F256-QFP64	M4	256 kB	48	32	53	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32WG280F256-QFP100	M4	256 kB	48	32	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32WG290F256-BGA112	M4	256 kB	48	32	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32WG295F256-BGA120	M4	256 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32WG330F256-QFN64	M4	256 kB	48	32	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32WG332F256-QFP64	M4	256 kB	48	32	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64

PART NUMBER	CORE	FLASH MEMORY	MHz	RAM (kB)	DIG.	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	DEBUG I/F	сомр.	PACKAGE
EFM32WG380F256-QFP100	M4	256 kB	48	32	83	2 x I ² C; 2 x UART; 3 x USART; USB	4		±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32WG390F256-BGA112	M4	256 kB	48	32	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32WG395F256-BGA120	M4	256 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32WG840F256-QFN64	M4	256 kB	48	32	56	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32WG842F256-QFP64	M4	256 kB	48	32	53	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32WG880F256-QFP100	M4	256 kB	48	32	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32WG890F256-BGA112	M4	256 kB	48	32	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32WG895F256-BGA120	M4	256 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32WG940F256-QFN64	M4	256 kB	48	32	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFN64
EFM32WG942F256-QFP64	M4	256 kB	48	32	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32WG980F256-QFP100	M4	256 kB	48	32	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32WG990F256-BGA112	M4	256 kB	48	32	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32WG995F256-BGA120	M4	256 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32WG230F128-QFN64	M4	128 kB	48	32	56	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32WG232F128-QFP64	M4	128 kB	48	32	53	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32WG280F128-QFP100	M4	128 kB	48	32	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32WG290F128-BGA112	M4	128 kB	48	32	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32WG295F128-BGA120	M4	128 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32WG330F128-QFN64	M4	128 kB	48	32	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32WG332F128-QFP64	M4	128 kB	48	32	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32WG380F128-QFP100	M4	128 kB	48	32	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32WG390F128-BGA112	M4	128 kB	48	32	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32WG395F128-BGA120	M4	128 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32WG840F128-QFN64	M4	128 kB	48	32	56	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32WG842F128-QFP64	M4	128 kB	48	32	53	2 x I ² C; 3 x USAT	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32WG880F128-QFP100	M4	128 kB	48	32	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32WG890F128-BGA112	M4	128 kB	48	32	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32WG895F128-BGA120	M4	128 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32WG940F128-QFN64	M4	128 kB	48	32	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFN64
EFM32WG942F128-QFP64	M4	128 kB	48	32	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32WG980F128-QFP100	M4	128 kB	48	32	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32WG990F128-BGA112	M4	128 kB	48	32	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32WG995F128-BGA120	M4	128 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32WG230F64-QFN64	M4	64 kB	48	32	56	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64

PART NUMBER	CORE	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	DEBUG I/F	сомр.	PACKAGE
EFM32WG232F64-QFP64	M4	64 kB	48	32	53	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32WG280F64-QFP100	M4	64 kB	48	32	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32WG290F64-BGA112	M4	64 kB	48	32	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32WG295F64-BGA120	M4	64 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32WG330F64-QFN64	M4	64 kB	48	32	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32WG332F64-QFP64	M4	64 kB	48	32	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32WG380F64-QFP100	M4	64 kB	48	32	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32WG390F64-BGA112	M4	64 kB	48	32	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32WG395F64-BGA120	M4	64 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32WG840F64-QFN64	M4	64 kB	48	32	56	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFN64
EFM32WG842F64-QFP64	M4	64 kB	48	32	53	2 x I ² C; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP64
EFM32WG880F64-QFP100	M4	64 kB	48	32	86	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32WG890F64-BGA112	M4	64 kB	48	32	90	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32WG895F64-BGA120	M4	64 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120
EFM32WG940F64-QFN64	M4	64 kB	48	32	53	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFN64
EFM32WG942F64-QFP64	M4	64 kB	48	32	50	2 x I ² C; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	1	QFP64
EFM32WG980F64-QFP100	M4	64 kB	48	32	83	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	QFP100
EFM32WG990F64-BGA112	M4	64 kB	48	32	87	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA112
EFM32WG995F64-BGA120	M4	64 kB	48	32	93	2 x I ² C; 2 x UART; 3 x USART; USB	4	_	±2%	12-bit, 1-ch., 1 Msps	12-bit, 2 ch.	ETM; SW	2	BGA120

Precision32[™] Analog-Intensive 32-bit MCU

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	сомм.	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	ADC 2	DAC	TOUCH CH.	TEMP SENSOR	VREF	сомр.	PACKAGE
SiM3C164	256 kB	80	32 kB	28		5	10	±1.5%	12-bit, 7-ch.	12-bit, 11-ch.	10-bit, 2-ch.	12	•	•	2	QFN40
SiM3C166	256 kB	80	32 kB	50		5	10	±1.5%	12-bit, 13-ch.	12-bit, 15-ch.	10-bit, 2-ch.	15	•	•	2	QFN64/TQFP64
SiM3C167	256 kB	80	32 kB	65		5	10	±1.5%	12-bit, 16-ch.	12-bit, 16-ch.	10-bit, 2-ch.	16	•	•	2	LGA92/TQFP80
SiM3C154	128 kB	80	32 kB	28	2 x I ² C,	5	10	±1.5%	12-bit, 7-ch.	12-bit, 11-ch.	10-bit, 2-ch.	12	•	•	2	QFN40
SiM3C156	128 kB	80	32 kB	50	I ² S, 3 x SPI, 2 x UART,	5	10	±1.5%	12-bit, 13-ch.	12-bit, 15-ch.	10-bit, 2-ch.	15	•		2	QFN64/TQFP64
SiM3C157	128 kB	80	32 kB	65	2 x USART, USB	5	10	±1.5%	12-bit, 16-ch.	12-bit, 16-ch.	10-bit, 2-ch.	16	•	•	2	LGA92/TQFP80
SiM3C144	64 kB	80	16 kB	28		5	10	±1.5%	12-bit, 7-ch.	12-bit, 11-ch.	10-bit, 2-ch.	12	•	•	2	QFN40
SiM3C146	64 kB	80	16 kB	50		5	10	±1.5%	12-bit, 13-ch.	12-bit, 15-ch.	10-bit, 2-ch.	15	•	•	2	QFN64/TQFP64
SiM3C134	32 kB	80	8 kB	28		5	10	±1.5%	12-bit, 7-ch.	12-bit, 11-ch.	10-bit, 2-ch.	12	•	•	2	QFN40
SiM3C136	32 kB	80	8 kB	50		5	10	±1.5%	12-bit, 13-ch.	12-bit, 15-ch.	10-bit, 2-ch.	15	•	•	2	QFN64/TQFP64

Precision32[™] Low Power 32-bit MCUs

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	сомм.	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	TOUCH CH.	TEMP SENSOR	VREF	сомр.	PACKAGE
SiM3L164	256 kB	50	32 kB	28		3	1x6	±2%	12-bit, 20-ch.	10-bit	_	•	•	2	QFN40
SiM3L166	256 kB	50	32 kB	51		3	1x6	±2%	12-bit, 23-ch.	10-bit	_	•	•	2	QFN64/TQFP64
SiM3L167	256 kB	50	32 kB	62/64		3	1x6	±2%	12-bit, 24-ch.	10-bit	_	•	•	2	QFP80/BGA80
SiM3L154	128 kB	50	16 kB	28	I ² C.	3	1x6	±2%	12-bit, 20-ch.	10-bit	_		•	2	QFN40
SiM3L156	128 kB	50	16 kB	51	2 x SPI,	3	1x6	±2%	12-bit, 23-ch.	10-bit	_	•	•	2	QFN64/TQFP64
SiM3L157	128 kB	50	16 kB	62/64	2 x UART	3	1x6	±2%	12-bit, 24-ch.	10-bit	_		•	2	QFP80/BGA80
SiM3L144	64 kB	50	8 kB	28		3	1x6	±2%	12-bit, 20-ch.	10-bit	_	•	•	2	QFN40
SiM3L146	64 kB	50	8 kB	51		3	1x6	±2%	12-bit, 23-ch.	10-bit	_		•	2	QFN64/TQFP64
SiM3L134	32 kB	50	8 kB	28		3	1x6	±2%	12-bit, 20-ch.	10-bit	_			2	QFN40
SiM3L136	32 kB	50	8 kB	47		3	1x6	±2%	12-bit, 23-ch.	10-bit	_	•	•	2	QFN64/TQFP64

Precision32[™] USB 32-bit MCUs

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	сомм.	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	ADC 2	DAC	TOUCH CH.	TEMP SEN- SOR	VREF	сомр.	PACKAGE
SiM3U164	256 kB	80	32 kB	28		5	10	±1.5%	12-bit, 7-ch.	12-bit, 11-ch.	10-bit, 2-ch.	12			2	QFN40
SiM3U166	256 kB	80	32 kB	50		5	10	±1.5%	12-bit, 13-ch.	12-bit, 15-ch.	10-bit, 2-ch.	15			2	QFN64/TQFP64
SiM3U167	256 kB	80	32 kB	65		5	10	±1.5%	12-bit, 16-ch.	12-bit, 16-ch.	10-bit, 2-ch.	16			2	LGA92/TQFP80
SiM3U154	128 kB	80	32 kB	28	2 x I ² C, I ² S, 3 x SPI,	5	10	±1.5%	12-bit, 7-ch.	12-bit, 11-ch.	10-bit, 2-ch.	12			2	QFN40
SiM3U156	128 kB	80	32 kB	50	2 x UART, 2 x USART, USB	5	10	±1.5%	12-bit, 13-ch.	12-bit, 15-ch.	10-bit, 2-ch.	15			2	QFN64/TQFP64
SiM3U157	128 kB	80	32 kB	65		5	10	±1.5%	12-bit, 16-ch.	12-bit, 16-ch.	10-bit, 2-ch.	16			2	LGA92/TQFP80
SiM3U144	64 kB	80	16 kB	28		5	10	±1.5%	12-bit, 7-ch.	12-bit, 11-ch.	10-bit, 2-ch.	12			2	QFN40
SiM3U146	64 kB	80	16 kB	50		5	10	±1.5%	12-bit, 13-ch.	12-bit, 15-ch.	10-bit, 2-ch.	15			2	QFN64/TQFP64
SiM3U134	32 kB	80	8 kB	28	2 x I ² C, I ² S,	5	10	±1.5%	12-bit, 7-ch.	12-bit, 11-ch.	10-bit, 2-ch.	12			2	QFN40
SiM3U136	32 kB	80	8 kB	50	3 x SPI, 2 x UART, 2 x USART, USB	5	10	±1.5%	12-bit, 13-ch.	12-bit, 15-ch.	10-bit, 2-ch.	15			2	QFN64/TQFP64

8-bit Microcontroller Products

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Capacitive Touch Controller MCUs

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	TOUCH CH.	TEMP SENSOR	VREF	сомр.	PACKAGE	DEV KIT
C8051F760	32 kB	25	8	_	I ² C; SPI; UART	_	_	_	10-bit, 9-ch., 300 ksps	_	_	_	_	QFN48	_
C8051F761	32 kB	25	8	_	I ² C; SPI; UART	_	_	_	10-bit, 9-ch., 300 ksps	_	_	_	_	QFN32	_
C8051F762	32 kB	25	8	_	I ² C; SPI; UART	_	_	_	10-bit, 9-ch., 300 ksps	_	_	_	_	QFN24	_
C8051F765	32 kB	25	8	_	I ² C; SPI; UART	_	_	_	10-bit, 9-ch., 300 ksps	_	_	_	_	QFN48	_
C8051F766	32 kB	25	8	_	I ² C; SPI; UART	_	_	_	10-bit, 9-ch., 300 ksps	_	_	_	_	QFN32	_
C8051F767	32 kB	25	8	_	I ² C; SPI; UART	_	_	_	10-bit, 9-ch., 300 ksps	_	_	_	_	QFN24	_
C8051F702	16 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 500 ksps	38	•		1	QFP64	C8051F700DK
C8051F703	16 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	_	38	_	_	1	QFP64	C8051F700DK

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	TOUCH CH.	TEMP SENSOR	VREF	COMP.	PACKAGE	DEV KIT
C8051F706	16 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	10-bit, 12-ch., 500 ksps	27			1	QFN48/ QFP48	C8051F700DK
C8051F707	16 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	_	27	_	_	1	QFN48/ QFP48	C8051F700DK
C8051F716	16 kB	25	0.5	29	I ² C; SPI; UART	4	3	±2%	10-bit, 3-ch., 500 ksps	26	•		1	QFN32	C8051F700DK
C8051F717	16 kB	25	0.5	20	I ² C; SPI; UART	4	3	±2%	_	18	_	_	1	QFN24	C8051F700DK
C8051F800	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksps	16	•		1	QFN20/ QSOP24	C8051F800DK
C8051F801	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksps	8	•		1	QFN20/ QSOP24	C8051F800DK
C8051F802	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksps	_	•		1	QFN20/ QSOP24	C8051F800DK
C8051F803	16 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksps	12	•	•	1	SOIC16	C8051F800DK
C8051F804	16 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksps	8	•		1	SOIC16	C8051F800DK
C8051F806	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	_	16	_	_	1	QFN20/ QSOP24	C8051F800DK
C8051F807	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	_	8	_	_	1	QFN20/ QSOP24	C8051F800DK
C8051F808	16 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	_	_	_	_	1	QFN20/ QSOP24	C8051F800DK
C8051F809	16 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	_	12	_	_	1	SOIC16	C8051F800DK
C8051F810	16 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	_	8		_	1	SOIC16	C8051F800DK
C8051F811	16 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	_	_	_	_	1	SOIC16	C8051F800DK
C8051F805	16 kB	28	0.5	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksps	_	•	•	1	SOIC16	C8051F800DK
C8051F700	15 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 500 ksps	38	•		1	QFP64	C8051F700DK
C8051F701	15 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	_	38	_	_	1	QFP64	C8051F700DK
C8051F704	15 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	10-bit, 12-ch., 500 ksps	27	٠	•	1	QFN48/ QFP48	C8051F700DK
C8051F705	15 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	_	27	_	_	1	QFN48/ QFP48	C8051F700DK
C8051F708	8 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 500 ksps	38	٠	٠	1	QFP64	C8051F700DK
C8051F709	8 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	_	38		_	1	QFP64	C8051F700DK
C8051F710	8 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 500 ksps	38	٠	•	1	QFP64	C8051F700DK
C8051F711	8 kB	25	0.5	54	EMIF; I ² C; SPI; UART	4	3	±2%	_	39		_	1	QFP64	C8051F700DK
C8051F712	8 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	10-bit, 12-ch., 500 ksps	27	•	•	1	QFN48/ QFP48	C8051F700DK
C8051F713	8 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	_	27	_	_	1	QFN48/ QFP48	C8051F700DK
C8051F714	8 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	10-bit, 12-ch., 500 ksps	27	•	•	1	QFN48/ QFP48	C8051F700DK
C8051F715	8 kB	25	0.5	39	I ² C; SPI; UART	4	3	±2%	_	27	_	_	1	QFN48/ QFP48	C8051F700DK
C8051F812	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksps	16	•	•	1	QFN20/ QSOP24	C8051F800DK
C8051F813	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksps	8	•	٠	1	QSOP24	C8051F800DK
C8051F814	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksps	_	•	•	1	QFN20/ QSOP24	C8051F800DK
C8051F815	8 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksps	12	•	•	1	SOIC16	C8051F800DK
C8051F816	8 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksps	8	•	•	1	SOIC16	C8051F800DK
C8051F817	8 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksps	_	٠	٠	1	SOIC16	C8051F800DK
C8051F818	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	_	16	_	_	1	QFN20/ QSOP24	C8051F800DK
C8051F819	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	_	8	_	_	1	QFN20/ QSOP24	C8051F800DK
C8051F820	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	_	_	_	_	1	QFN20/ QSOP24	C8051F800DK

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG.	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	TOUCH CH.	TEMP SENSOR	VREF	сомр.	PACKAGE	DEV KIT
C8051F821	8 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	_	12	_	_	1	SOIC16	C8051F800DK
C8051F822	8 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	_	8	_	_	1	SOIC16	C8051F800DK
C8051F823	8 kB	25	0.5	13	I ² C; SPI; UART	3	3	±2%	_	_	_	_	1	SOIC16	C8051F800DK
C8051F990	8 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%	12-bit, 9-ch., 75 ksps	13	•		1	QFN20	C8051F996DK
C8051F991	8 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%	_	13	_	_	1	QFN20	C8051F996DK
C8051F996	8 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	12-bit, 10-ch., 75 ksps	14	•	•	1	QFN24/ QSOP24	C8051F996DK
C8051F997	8 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	_	14	_	_	1	QFN24/ QSOP24	C8051F996DK
C8051F813	8 kB	25	0.5	17	I ² C; SPI; UART	3	3	±2%	10-bit, 16-ch., 500 ksps	8	•	•	1	QSOP24	C8051F800DK
C8051F824	8 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksps	12	•	•	1	SOIC16	C8051F800DK
C8051F825	8 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksps	8	•		1	SOIC16	C8051F800DK
C8051F826	8 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksps	_	•		1	SOIC16	C8051F800DK
C8051F827	8 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	_	12	_	_	1	SOIC16	C8051F800DK
C8051F828	8 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	_	8	_	_	1	SOIC16	C8051F800DK
C8051F829	8 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	_	_	_	_	1	SOIC16	C8051F800DK
C8051F830	4 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksps	12	•	•	1	SOIC16	C8051F800DK
C8051F831	4 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksps	8	•		1	SOIC16	C8051F800DK
C8051F832	4 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	10-bit, 12-ch., 500 ksps	_	•	•	1	SOIC16	C8051F800DK
C8051F833	4 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	_	12	_	_	1	SOIC16	C8051F800DK
C8051F834	4 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	_	8	_	_	1	SOIC16	C8051F800DK
C8051F835	4 kB	25	0.25	13	I ² C; SPI; UART	3	3	±2%	_	_	_	_	1	SOIC16	C8051F800DK

Small Form Factor MCUs

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	сомм.	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	TEMP SENSOR	VREF	сомр.	OTHER	PACKAGE	OTP- EPROM VERSION	DEV KIT
C8051F360	32 kB	100	1.25	39	EMIF; I ² C; SPI; UART	4	6	±2%	10-bit, 21-ch., 200 ksps	10-bit, 1-ch.			2	16x16 MAC	TQFP48		C8051F360DK
C8051F361	32 kB	100	1.25	27	I ² C; SPI; UART	4	6	±2%	10-bit, 21-ch., 200 ksps	10-bit, 1-ch.			2	16x16 MAC	LQFP32		C8051F360DK
C8051F362	32 kB	100	1.25	24	I ² C; SPI; UART	4	6	±2%	10-bit, 17-ch., 200 ksps	10-bit, 1-ch.			2	16x16 MAC	QFN28		C8051F360DK
C8051F363	32 kB	100	1.25	39	EMIF; I ² C; SPI; UART	4	6	±2%	_	_	_	_	2	16x16 MAC	TQFP48		C8051F360DK
C8051F364	32 kB	100	1.25	29	I ² C; SPI; UART	4	6	±2%	_	_	_	_	2	16x16 MAC	LQFP32		C8051F360DK
C8051F365	32 kB	100	1.25	25	I ² C; SPI; UART	4	6	±2%	_	_	_	_	2	16x16 MAC	QFN28		C8051F360DK
C8051F366	32 kB	50	1.25	29	I ² C; SPI; UART	4	6	±2%	10-bit, 21-ch., 200 ksps	10-bit, 1-ch.			2	16x16 MAC	LQFP32		C8051F360DK
C8051F367	32 kB	50	1.25	25	I ² C; SPI; UART	4	6	±2%	10-bit, 17-ch., 200 ksps	10-bit, 1-ch.			2	16x16 MAC	QFN28		C8051F360DK
C8051F410	32 kB	50	2.25	24	I ² C; SPI; UART	4	6	±2%	12-bit, 24-ch., 200 ksps	12-bit, 2-ch.			2	RTC; VREG	LQFP32		C8051F410DK
C8051F411	32 kB	50	2.25	20	I ² C; SPI; UART	4	6	±2%	12-bit, 20-ch., 200 ksps	12-bit, 2-ch.			2	RTC; VREG	QFN28		C8051F410DK
C8051F368	16 kB	50	1.25	29	I ² C; SPI; UART	4	6	±2%	10-bit, 21-ch., 200 ksps	10-bit, 1-ch.			2	16x16 MAC	LQFP32		C8051F360DK
C8051F369	16 kB	50	1.25	25	I ² C; SPI; UART	4	6	±2%	10-bit, 17-ch., 200 ksps	10-bit, 1-ch.			2	16x16 MAC	QFN28		C8051F360DK
C8051F370	16 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	10-bit, 16-ch., 500 ksps	10-bit, 2-ch.			2	LFO; VREG	QFN24		C8051F370DK
C8051F371	16 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	_	_	_	_	2	LFO; VREG	QFN24		C8051F370DK

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	сомм.	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	TEMP SENSOR	VREF	сомр.	OTHER	PACKAGE	OTP- EPROM VERSION	DEV KIT
C8051F390	16 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	10-bit, 16-ch., 500 ksps	10-bit, 2-ch.			1	LFO; VREG	QFN24		C8051F390DK
C8051F391	16 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	_	_	_	_	1	LFO; VREG	QFN24		C8051F390DK
C8051F392	16 kB	50	1	17	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	10-bit, 16-ch., 500 ksps	10-bit, 2-ch.	•		1	LFO; VREG	QFN20		C8051F390DK
C8051F393	16 kB	50	1	17	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	_	_	_	_	1	LFO; VREG	QFN20		C8051F390DK
C8051F412	16 kB	50	2.25	24	I ² C; SPI; UART	4	6	±2%	12-bit, 24-ch., 200 ksps	12-bit, 2-ch.	•		2	RTC; VREG	LQFP32		C8051F410DK
C8051F413	16 kB	50	2.25	20	I ² C; SPI; UART	4	6	±2%	12-bit, 20-ch., 200 ksps	12-bit, 2-ch.			2	RTC; VREG	QFN28		C8051F410DK
C8051F310	16 kB	25	1.25	29	I ² C; SPI; UART	4	5	±2%	10-bit, 21-ch., 200 ksps	_		_	2	_	LQFP32	T610	C8051F310DK
C8051F311	16 kB	25	1.25	25	I ² C; SPI; UART	4	5	±2%	10-bit, 17-ch., 200 ksps	_		_	2	_	QFN28	T611	C8051F310DK
C8051F316	16 kB	25	1.25	21	I ² C; SPI; UART	4	5	±2%	10-bit, 13- ch.,200 ksps	_		_	2	_	QFN24	T616	C8051F310DK
C8051F317	16 kB	25	1.25	21	I ² C; SPI; UART	4	5	±2%	_	_	_	-	2	_	QFN24	T617	C8051F310DK
C8051F336	16 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 200 ksps	10-bit, 1-ch.	•		1	LFO	QFN20		C8051F336DK
C8051F337	16 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	_	_			1	LFO	QFN20		C8051F336DK
C8051F338	16 kB	25	0.75	21	I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 200 ksps	10-bit, 1-ch.	•		1	LFO	QFN24		C8051F336DK
C8051F339	16 kB	25	0.75	21	I ² C; SPI; UART	4	3	±2%	_	_	_	_	1	LFO	QFN24		C8051F336DK
C8051F206	8 kB	25	1.25	32	SPI; UART	3	_	±20%	12-bit, 32-ch., 100 ksps	_	_	-	2	_	TQFP48		C8051F206DK
C8051F220	8 kB	25	0.25	32	SPI; UART	3	_	±20%	8-bit, 32-ch., 100 ksps	_	_	_	2	_	TQFP48		C8051F226DK
C8051F221	8 kB	25	0.25	22	SPI; UART	3	_	±20%	8-bit, 22-ch., 100 ksps	_	_	_	2	_	LQFP32		C8051F226DK
C8051F226	8 kB	25	1.25	32	SPI; UART	3	_	±20%	8-bit, 32-ch., 100 ksps	_	_	_	2	_	TQFP48		C8051F226DK
C8051F230	8 kB	25	0.25	32	SPI; UART	3	_	±20%	_	_	_	_	2	_	TQFP48		C8051F226DK
C8051F231	8 kB	25	0.25	22	SPI; UART	3	_	±20%	_	_	_	_	2	_	LQFP32		C8051F226DK
C8051F236	8 kB	25	1.25	32	SPI; UART	3	_	±20%	_	_	_	_	2	_	TQFP48		C8051F226DK
C8051F300	8 kB	25	0.25	8	I ² C; UART	3	3	±2%	8-bit, 8-ch., 500 ksps	_		-	1	_	QFN11/ SOIC14	T600	C8051F300DK
C8051F301	8 kB	25	0.25	8	I ² C; UART	3	3	±2%	_	_	_	_	1	_	QFN11/ SOIC14	T601	C8051F300DK
C8051F302	8 kB	25	0.25	8	I ² C; UART	3	3	±20%	8-bit, 8-ch., 500 ksps	_	•	-	1	_	QFN11/ SOIC14	T600	C8051F300DK
C8051F303	8 kB	25	0.25	8	I ² C; UART	3	3	±20%	_	_	_	-	1	_	QFN11/ SOIC14	T601	C8051F300DK
C8051F312	8 kB	25	1.25	29	I ² C; SPI; UART	4	5	±2%	10-bit, 21-ch., 200 ksps	_	•	_	2	_	LQFP32	T612	C8051F310DK
C8051F313	8 kB	25	1.25	25	I ² C; SPI; UART	4	5	±2%	10-bit, 17-ch., 200 ksps	-	•	-	2	-	QFN28	T613	C8051F310DK
C8051F314	8 kB	25	1.25	29	I ² C; SPI; UART	4	5	±2%	_	_	-	_	2	-	LQFP32	T614	C8051F310DK
C8051F315	8 kB	25	1.25	25	I ² C; SPI; UART	4	5	±2%	_	-	-	_	2	_	QFN28	T615	C8051F310DK
C8051F330	8 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 200 ksps	10-bit, 1-ch.			1	LFO	QFN20/ DIP20	T630	C8051F330DK
C8051F331	8 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	_	-	-	-	1	LFO	QFN20	T631	C8051F330DK
C8051F850	8 kB	25	0.50	16	I ² C; SPI; UART	4	3	±2%	12-bit, 15-ch., 200 ksps	_	•		2	LFO	QFN20/ QSOP24		C8051F850DK
C8051F853	8 kB	25	0.50	16	I ² C; SPI; UART	4	3	±2%	_	_	_	-	2	LFO	QFN20/ QSOP24		C8051F850DK

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	сомм.	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	TEMP SENSOR	VREF	сомр.	OTHER	PACKAGE	OTP- EPROM VERSION	DEV KIT
C8051F860	8 kB	25	0.50	13	I ² C; SPI; UART	4	3	±2%	12-bit, 12-ch., 200 ksps	_			2	LFO	SOIC16		C8051F850DK
C8051F863	8 kB	25	0.50	13	I ² C; SPI; UART	4	3	±2%	_	_	_	_	2	LFO	SOIC16		C8051F850DK
C8051F374	8 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	10-bit, 16-ch., 500 ksps	10-bit, 2-ch.			1	LFO; VREG	QFN24		C8051F370DK
C8051F375	8 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	_	_	_	_	1	LFO; VREG	QFN24		C8051F370DK
C8051F394	8 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	10-bit, 16-ch., 500 ksps	10-bit, 2-ch.			1	LFO; VREG	QFN24		C8051F390DK
C8051F395	8 kB	50	1	21	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	_	_	_	_	1	LFO; VREG	QFN24		C8051F390DK
C8051F396	8 kB	50	1	17	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	10-bit, 16-ch., 500 ksps	10-bit, 2-ch.			1	LFO; VREG	QFN20		C8051F390DK
C8051F397	8 kB	50	1	17	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	_	_	_	_	1	LFO; VREG	QFN20		C8051F390DK
C8051F304	4 kB	25	0.25	8	I ² C; UART	3	3	±20%	_	_	_	_	1	_	QFN11/ SOIC14	T603	C8051F300DK
C8051F332	4 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 200 ksps	_		•	1	LFO	QFN20	T632	C8051F330DK
C8051F333	4 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	_	_	_	_	1	LFO	QFN20	T633	C8051F330DK
C8051F851	4 kB	25	0.50	16	I ² C; SPI; UART	4	3	±2%	12-bit, 15-ch., 200 ksps	_			2	LFO	QFN20/ QSOP24		C8051F850DK
C8051F854	4 kB	25	0.50	16	I ² C; SPI; UART	4	3	±2%	_	_	_	_	2	LFO	QFN20/ QSOP24		C8051F850DK
C8051F861	4 kB	25	0.50	13	I ² C; SPI; UART	4	3	±2%	12-bit, 12-ch., 200 ksps	_			2	LFO	SOIC16		C8051F850DK
C8051F864	4 kB	25	0.50	13	I ² C; SPI; UART	4	3	±2%	_	_	_	_	2	LFO	SOIC16		C8051F850DK
C8051F398	4 kB	50	1	17	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	10-bit, 16-ch., 500 ksps	10-bit, 2-ch.			1	LFO; VREG	QFN20		C8051F390DK
C8051F399	4 kB	50	1	17	I ² C; 2 x I ² C; SPI; UART	6	3	±2%	_	_	_	_	1	LFO; VREG	QFN20		C8051F390DK
C8051F305	2 kB	25	0.25	8	I ² C; UART	3	3	±20%	_	_	_	—о	1	_	QFN11/ SOIC14	T605	C8051F300DK
C8051F334	2 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	10-bit, 16-ch., 200 ksps	_			1	LFO	QFN20	T634	C8051F330DK
C8051F335	2 kB	25	0.75	17	I ² C; SPI; UART	4	3	±2%	_	_	-	-	1	LFO	QFN20	T635	C8051F330DK
C8051F852	2 kB	25	0.25	16	I ² C; SPI; UART	4	3	±2%	12-bit, 15-ch., 200 ksps	_			2	LFO	QFN20/ QSOP24		C8051F850DK
C8051F855	2 kB	25	0.25	16	I ² C; SPI; UART	4	3	±2%	_	-	-	-	2	LFO	QFN20/ QSOP24		C8051F850DK
C8051F862	2 kB	25	0.25	13	I ² C; SPI; UART	4	3	±2%	12-bit, 12-ch., 200 ksps	_			2	LFO	SOIC16		C8051F850DK
C8051F865	2 kB	25	0.25	13	I ² C; SPI; UART	4	3	±2%	_	-	-	-	2	LFO	SOIC16		C8051F850DK

Industrial and Automotive Qualified MCUs

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)		INT. OSC	ADC	TEMP SENSOR	VREF	сомр.	OTHER	PACKAGE	DEV KIT
C8051F580	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		•	3	-40 to 125 °C	QFN48/ QFP48	C8051F580DK
C8051F581	128 kB	50	8	40	EMIF; I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 32-ch., 200 ksps		•	3	-40 to 125 °C	QFN48/ QFP48	C8051F580DK
C8051F582	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		•	3	-40 to 125 °C	QFN32/ QFP32	C8051F580DK
C8051F583	128 kB	50	8	25	I ² C; SPI; UART; 2 x UART	6	12	±0.5%	12-bit, 25-ch., 200 ksps	•	•	3	-40 to 125 °C	QFN32/ QFP32	C8051F580DK

Confidence 120 kg	PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG.	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	TEMP SENSOR	VREF	сомр.	OTHER	PACKAGE	DEV KIT
CROSSTERION	C8051F588		50			LIN; SPI; UART;							3	-40 to 125 °C	QFN40	C8051F580DK
CROSSTESS 98 NB 50 6 40 LIN SPILLART 0 12 40.5% 200.000 1.2 40.5% 200.0000 1.2 40.5% 200.000 1.2 40.5% 200.0000 200.0000 200.0000	C8051F589	128 kB	50	8	33		6	12	±0.5%				3	-40 to 125 °C	QFN40	C8051F580DK
CROSTIFSON STATE	C8051F584	96 kB	50	8	40	LIN; SPI; UART;	6	12	±0.5%				3	-40 to 125 °C		C8051F580DK
CROSTFORD 68 NO 69	C8051F585	96 kB	50	8	40		6	12	±0.5%	12-bit, 32-ch., 200 ksps			3	-40 to 125 °C		C8051F580DK
Carrier Carr	C8051F586	96 kB	50	8	25	SPI; UART;	6	12	±0.5%				3	-40 to 125 °C		C8051F580DK
CODITION 0 94 MB 90	C8051F587	96 kB	50	8	25	I ² C; SPI; UART; 2 x UART	6	12	±0.5%				3	-40 to 125 °C		C8051F580DK
CROSTFSON 861 88	C8051F590	96 kB	50	8	33	LIN; SPI; UART;	6	12	±0.5%		٠		3	-40 to 125 °C	QFN40	C8051F580DK
CROSTFSON 64 NB 50 4.25 ND LEMPT 12 6 8.05 ND 200 Kaps	C8051F591	96 kB	50	8	33		6	12	±0.5%				3	-40 to 125 °C	QFN40	C8051F580DK
CROST-FOOD GA NB SO ALS SO CANE	C8051F500	64 kB	50	4.25	40		4	6	±0.5%				2	-40 to 125 °C		C8051F500DK
CROSTFSON G4 AB 50 4.25 25 1°C, SPI; UART 4 6 40.5% 12-bit 20-bit 20 6 6 6 20 6 6 6 20 6 6 20 6 6 20 6 6 20 6 2	C8051F501	64 kB	50	4.25	40		4	6	±0.5%				2	-40 to 125 °C		C8051F500DK
CROSIFSOR 64 kB 50 4.25 33 CAN-EMF-PC; LART 4 6 40.5% 12-bit 32-ch;	C8051F502	64 kB	50	4.25	25		4	6	±0.5%				2	-40 to 125 °C		C8051F500DK
C8051F500 64 k8 50 4.25 33 EMF_(*C; SP)*; UART 4 6 20.5% 12-bit 32-ch. C8051F500 64 k8 50 4.25 40 CAN-EMIF; (*C; SP)*; UART 4 6 20.5% 12-bit 32-ch. C8051F506 32 k8 50 4.25 40 EMF_(*C; SP)*; UART 4 6 40.5% 12-bit 32-ch. C8051F506 32 k8 50 4.25 40 EMF_(*C; SP)*; UART 4 6 40.5% 12-bit 32-ch. C8051F506 32 k8 50 4.25 52 CAN-EC, LIN-SP)*; UART 4 6 40.5% 12-bit 32-ch. C8051F507 32 k8 50 4.25 33 CAN-EMIF; (*C; SP)*; UART 4 6 40.5% 12-bit 32-ch. C8051F507 32 k8 50 4.25 33 CAN-EMIF; (*C; SP)*; UART 4 6 40.5% 12-bit 32-ch. C8051F507 32 k8 50 4.25 33 CAN-EMIF; (*C; SP)*; UART 4 6 40.5% 12-bit 32-ch. C8051F507 32 k8 50 4.25 33 CAN-EMIF; (*C; SP)*; UART 4 6 40.5% 12-bit 32-ch. C8051F507 32 k8 50 4.25 33 CAN-EMIF; (*C; SP)*; UART 4 6 40.5% 12-bit 32-ch. C8051F507 32 k8 50 4.25 33 CAN-EMIF; (*C; SP)*; UART 4 6 40.5% 12-bit 32-ch. C8051F507 32 k8 50 4.25 33 CAN-EMIF; (*C; SP)*; UART 4 6 40.5% 12-bit 32-ch. C8051F507 32 k8 50 4.25 33 CAN-EMIF; (*C; SP)*; UART 4 6 40.5% 12-bit 32-ch. C8051F507 32 k8 50 4.25 33 CAN-EMIF; (*C; SP)*; UART 4 6 40.5% 12-bit 32-ch. C8051F507 32 k8 50 4.25 33 CAN-EMIF; (*C; SP)*; UART 4 6 40.5% 12-bit 36-ch. C8051F507 32 k8 50 4.25 33 CAN-EMIF; (*C; SP)*; UART 4 6 40.5% 12-bit 36-ch. C8051F507 32 k8 50 4.25 31 CAN-(*C; SP)*; UART 4 6 40.5% 12-bit 36-ch. C8051F507 32 k8 50 4.25 18 CAN-(*C; SP)*; UART 4 6 40.5% 12-bit 16-ch. C8051F507 32 k8 50 4.25 18 CAN-(*C; SP)*; UART 4 6 40.5% 12-bit 16-ch. C8051F507 32 k8 50 4.25 25 CAN-(*C; SP)*; UART 4 6 40.5% 12-bit 16-ch. C8051F507 32 k8 50 4.25 25 CAN-(*C; SP)*; UART 4 6 40.5% 12-bit 16-ch. C8051F507 32 k8 50 4.25 25 CAN-(*C; SP)*; UART 4 6 40.5% 12-bit 16-ch. C8051F500 32 k8 50 4.25 25 CAN-(*C; SP)*; UART 4 6 40.5% 12-bit 16-ch. C8051F507 32 k8 50 4.25 25 CAN-(*C; SP)*; UART 4 6 40.5% 12-bit 36-ch. C8051F507 32 k8 50 4.25 25 CAN-(*C; SP)*; UART 4 6 40.5% 12-bit 36-ch. C8051F500 32 k8 50 4.25 25 CAN-(*C; SP)*; UART 4 6 40.5% 12-bit 36-ch. C8051F507 32 k8 50 4.25 33 CAN-EMIF; (*C; SP)*; UART 4 6 40.5% 12-bit 36-ch. C8051F507 32 k8 50 4.	C8051F503	64 kB	50	4.25	25	I ² C; SPI; UART	4	6	±0.5%				2	-40 to 125 °C		C8051F500DK
C8051F500 32 kB 50 4.25 40 CAN; EMIF; PC; SPI; UART 4 6 40.5% 12-bit, 32-cth, 200 ksps	C8051F508	64 kB	50	4.25	33	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps			2	-40 to 125 °C	QFN40	C8051F500DK
C8051F500 32 kB 50 4.25 40 EMIF, PC, SPI; UART 4 6 20.5% 12-bit, 32-ch., 20 ksps	C8051F509	64 kB	50	4.25	33		4	6	±0.5%				2	-40 to 125 °C	QFN40	C8051F500DK
C8051F506 32 kB 50 4.25 25 CAN; FC; LIN; 4 6 20.5% 12-bit; 25-ch., 200 ksps	C8051F504	32 kB	50	4.25	40	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%				2	-40 to 125 °C		C8051F500DK
C8051F500 32 kB 50 4.25 25 FC; SPI; UART 4 6 ±0.5% 12-bit, 25-ch., 200 ksps	C8051F505	32 kB	50	4.25	40		4	6	±0.5%				2	-40 to 125 °C		C8051F500DK
C8051F507 32 kB 50 4.25 33 CAN; EMIF; PC; LIN; SPI; UART 4 6 ±0.5% 12-bit, 32-ch., 200 ksps 2 -40 to 125 °C QFN40 C8051F50DIX C8051F511 32 kB 50 4.25 33 EMIF; PC; SPI; UART 4 6 ±0.5% 12-bit, 32-ch., 200 ksps 2 -40 to 125 °C QFN40 C8051F50DIX C8051F550 32 kB 50 2.25 18 CAN; PC; LIN; SPI; UART 4 6 ±0.5% 12-bit, 18-ch., 200 ksps 2 -40 to 125 °C QFN24 C8051F50DIX C8051F551 32 kB 50 2.25 18 CAN; PC; LIN; SPI; UART 4 6 ±0.5% 12-bit, 18-ch., 200 ksps 2 -40 to 125 °C QFN24 C8051F50DIX C8051F552 32 kB 50 2.25 18 PC; LIN; SPI; UART 4 6 ±0.5% 12-bit, 18-ch., 200 ksps 2 -40 to 125 °C QFN24 C8051F560DIX C8051F553 32 kB 50 2.25 18 PC; LIN; SPI; UART 4 6 ±0.5% 12-bit, 18-ch., 200 ksps 2 -40 to 125 °C QFN24 C8051F560DIX C8051F550 32 kB 50 2.25 18 PC; SPI; UART 4 6 ±0.5% 12-bit, 18-ch., 200 ksps 2 -40 to 125 °C QFN24 C8051F560DIX C8051F560 32 kB 50 2.25 25 CAN; PC; LIN; SPI; UART 4 6 ±0.5% 12-bit, 25-ch., 200 ksps 2 -40 to 125 °C QFN24 C8051F560DIX C8051F560 32 kB 50 2.25 25 CAN; PC; LIN; SPI; UART 4 6 ±0.5% 12-bit, 25-ch., 200 ksps 2 -40 to 125 °C QFN32/ C8051F560DIX C8051F560 32 kB 50 2.25 25 PC; LIN; SPI; UART 4 6 ±0.5% 12-bit, 25-ch., 200 ksps 2 -40 to 125 °C QFN32/ C8051F560DIX C8051F560 32 kB 50 2.25 25 PC; LIN; SPI; UART 4 6 ±0.5% 12-bit, 25-ch., 200 ksps 2 -40 to 125 °C QFN32/ C8051F560DIX C8051F560 32 kB 50 2.25 33 CAN; EMIF; PC; LIN; SPI; UART 4 6 ±0.5% 12-bit, 25-ch., 200 ksps 2 -40 to 125 °C QFN32/ C8051F560DIX C8051F560 32 kB 50 2.25 33 CAN; EMIF; PC; LIN; SPI; UART 4 6 ±0.5% 12-bit, 25-ch., 200 ksps 2 -40 to 125 °C QFN32/ C8051F560DIX C8051F560 32 kB 50 2.25 33 CAN; EMIF; PC; LIN; SPI; UART 4 6 ±0.5% 12-bit, 25-ch., 200 ksps 2 -40 to 125 °C QFN32/ C8051F560DIX C8051F560 32 kB 50 2.25 33 CAN; EMIF; PC; LIN; SPI; UART 4 6 ±0.5% 12-bit, 32-ch., 200 ksps 2 -40 to 125 °C QFN32/ C8051F560DIX C8051F560 32 kB 50 2.25 33 EMIF; PC; LIN; SPI; UART 4 6 ±0.5% 12-bit, 32-ch., 200 ksps 2 -40 to 125 °C Q	C8051F506	32 kB	50	4.25	25		4	6	±0.5%				2	-40 to 125 °C		C8051F500DK
C8051F501 32 kB 50 4.25 33 EMIF; PC; SPI; UART 4 6 ±0.5% 12-bit, 18-ch., 200 ksps	C8051F507	32 kB	50	4.25	25	I ² C; SPI; UART	4	6	±0.5%				2	-40 to 125 °C		C8051F500DK
C8051F550 32 kB 50 2.25 18 CAN; IPC; LIN; LIN; LIART 4 6 ±0.5% 12-bit, 18-ch., 200 ksps	C8051F510	32 kB	50	4.25	33		4	6	±0.5%				2	-40 to 125 °C	QFN40	C8051F500DK
C8051F550	C8051F511	32 kB	50	4.25	33		4	6	±0.5%				2	-40 to 125 °C	QFN40	C8051F500DK
C8051F552 32 kB 50 2.25 18	C8051F550	32 kB	50	2.25	18		4	6	±0.5%				2	-40 to 125 °C	QFN24	C8051F560DK
C8051F563 32 kB 50 2.25 25 CAN; I ² C; SPI; UART 4 6 ±0.5% 12-bit, 18-ch., 200 ksps	C8051F551	32 kB	50	2.25	18		4	6	±0.5%				2	-40 to 125 °C	QFN24	C8051F560DK
C8051F560 32 kB 50 2.25 25 CAN;	C8051F552	32 kB	50	2.25	18		4	6	±0.5%				2	-40 to 125 °C	QFN24	C8051F560DK
C8051F561 32 kB 50 2.25 25 CAN; I*C; SPI; UART 4 6 ±0.5% 12-bit, 25-ch., 200 ksps • • • 2 40 to 125 °C QFN32/ QFP32 C8051F560DK C8051F562 32 kB 50 2.25 25 I*C; SPI; UART 4 6 ±0.5% 12-bit, 25-ch., 200 ksps • • • 2 40 to 125 °C QFN32/ QFP32 C8051F560DK C8051F563 32 kB 50 2.25 25 I*C; SPI; UART 4 6 ±0.5% 12-bit, 25-ch., 200 ksps • • • 2 40 to 125 °C QFN32/ QFP32 C8051F560DK C8051F568 32 kB 50 2.25 33 CAN; EMIF; I*C; LIN; SPI; UART 4 6 ±0.5% 12-bit, 32-ch., 200 ksps • • • 2 40 to 125 °C QFN32/ QFP32 C8051F560DK C8051F569 32 kB 50 2.25 33 CAN; EMIF; I*C; A 6 ±0.5% 12-bit, 32-ch., 200 ksps • • • 2 40 to 125 °C QFN40 C8051F560DK C8051F569 32 kB 50 2.25 33 CAN; EMIF; I*C; A 6 ±0.5% 12-bit, 32-ch., 200 ksps • • • 2 40 to 125 °C QFN40 C8051F560DK C8051F570 32 kB 50 2.25 33 EMIF; I*C; LIN; A 6 ±0.5% 12-bit, 32-ch., 200 ksps • • • 2 40 to 125 °C QFN40 C8051F560DK C8051F571 32 kB 50 2.25 33 EMIF; I*C; SPI; UART 4 6 ±0.5% 12-bit, 32-ch., 200 ksps • • • 2 40 to 125 °C QFN40 C8051F560DK	C8051F553	32 kB	50	2.25	18	I ² C; SPI; UART	4	6	±0.5%				2	-40 to 125 °C	QFN24	C8051F560DK
C8051F562 32 kB 50 2.25 25	C8051F560	32 kB	50	2.25	25	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%				2	-40 to 125 °C	QFN32/ QFP32	C8051F560DK
C8051F563 32 kB 50 2.25 25	C8051F561	32 kB	50	2.25	25	CAN; I ² C; SPI; UART	4	6	±0.5%				2	-40 to 125 °C		C8051F560DK
C8051F568 32 kB 50 2.25 33 CAN; EMIF; I ² C; LIN; C8051F571 32 kB 50 2.25 33 EMIF; I ² C; SPI; UART 4 6 ±0.5% 12-bit, 32-ch., 200 ksps • • • • • • • • • • • • • • • • • •	C8051F562	32 kB	50	2.25	25		4	6	±0.5%	12-bit, 25-ch., 200 ksps		•	2	-40 to 125 °C	QFN32/ QFP32	C8051F560DK
C8051F569 32 kB 50 2.25 33 CAN; EMIF; I ² C; SPI; UART 4 6 ±0.5% 12-bit, 32-ch., 200 ksps • • • 2 -40 to 125 °C QFN40 C8051F560DK C8051F570 32 kB 50 2.25 33 EMIF; I ² C; LIN; SPI; UART 4 6 ±0.5% 12-bit, 32-ch., 200 ksps • • • 2 -40 to 125 °C QFN40 C8051F560DK C8051F571 32 kB 50 2.25 33 EMIF; I ² C; SPI; UART 4 6 ±0.5% 12-bit, 32-ch., 200 ksps • • • 2 -40 to 125 °C QFN40 C8051F560DK	C8051F563	32 kB	50	2.25	25	I ² C; SPI; UART	4	6	±0.5%				2	-40 to 125 °C	QFN32/ QFP32	C8051F560DK
C8051F570 32 kB 50 2.25 33 SPI; UART 4 6 ±0.5% 200 ksps • • 2 -40 to 125 °C QFN40 C8051F560DK C8051F571 32 kB 50 2.25 33 EMIF; I ² C; LIN; A 6 ±0.5% 12-bit, 32-ch., 200 ksps • • • 2 -40 to 125 °C QFN40 C8051F560DK C8051F571 32 kB 50 2.25 33 EMIF; I ² C; SPI; UART 4 6 ±0.5% 12-bit, 32-ch., 200 ksps • • • 2 -40 to 125 °C QFN40 C8051F560DK	C8051F568	32 kB	50	2.25	33	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	-40 to 125 °C	QFN40	C8051F560DK
C8051F571 32 kB 50 2.25 33 EMIF; I ² C; SPI; 4 6 ±0.5% 12-bit, 32-ch., 200 ksps • • • 2 -40 to 125 °C QFN40 C8051F560DK	C8051F569	32 kB	50	2.25	33	CAN; EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•		2	-40 to 125 °C	QFN40	C8051F560DK
CONSTRUCTION OF A SECOND CONSTRUCTION OF A SEC	C8051F570	32 kB	50	2.25	33	EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps			2	-40 to 125 °C	QFN40	C8051F560DK
C8051F554	C8051F571	32 kB	50	2.25	33		4	6	±0.5%		•		2	-40 to 125 °C	QFN40	C8051F560DK
	C8051F554	16 kB	50	2.25	18	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%				2	-40 to 125 °C	QFN24	C8051F560DK

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG.	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	TEMP SENSOR	VREF	сомр.	OTHER	PACKAGE	DEV KIT
C8051F555	16 kB	50	2.25	18	CAN; I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps			2	-40 to 125 °C	QFN24	C8051F560DK
C8051F556	16 kB	50	2.25	18	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps			2	-40 to 125 °C	QFN24	C8051F560DK
C8051F557	16 kB	50	2.25	18	I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps			2	-40 to 125 °C	QFN24	C8051F560DK
C8051F564	16 kB	50	2.25	25	CAN; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps			2	-40 to 125 °C	QFN32/ QFP32	C8051F560DK
C8051F565	16 kB	50	2.25	25	CAN; I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps			2	-40 to 125 °C	QFN32/ QFP32	C8051F560DK
C8051F566	16 kB	50	2.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps			2	-40 to 125 °C	QFN32/ QFP32	C8051F560DK
C8051F567	16 kB	50	2.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps			2	-40 to 125 °C	QFN32/ QFP32	C8051F560DK
C8051F572	16 kB	50	2.25	33	CAN; EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•		2	-40 to 125 °C	QFN40	C8051F560DK
C8051F573	16 kB	50	2.25	33	CAN; EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps			2	-40 to 125 °C	QFN40	C8051F560DK
C8051F574	16 kB	50	2.25	33	EMIF; I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•		2	-40 to 125 °C	QFN40	C8051F560DK
C8051F575	16 kB	50	2.25	33	EMIF; I ² C; SPI; UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps			2	-40 to 125 °C	QFN40	C8051F560DK
C8051F540	16 kB	50	1.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•		2	-40 to 125 °C	QFN32/ QFP32	C8051F540DK
C8051F541	16 kB	50	1.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps			2	-40 to 125 °C	QFN32/ QFP32	C8051F540DK
C8051F542	16 kB	50	1.25	18	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	•		2	-40 to 125 °C	QFN24	C8051F540DK
C8051F543	16 kB	50	1.25	18	I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps			2	-40 to 125 °C	QFN24	C8051F540DK
C8051F544	8 kB	50	1.25	25	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•		2	-40 to 125 °C	QFN32/ QFP32	C8051F540DK
C8051F545	8 kB	50	1.25	25	I ² C; SPI; UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps			2	-40 to 125 °C	QFN32/ QFP32	C8051F540DK
C8051F546	8 kB	50	1.25	18	I ² C; LIN; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	•		2	-40 to 125 °C	QFN24	C8051F540DK
C8051F547	8 kB	50	1.25	18	I ² C; SPI; UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps			2	-40 to 125 °C	QFN24	C8051F540DK
C8051F531	8 kB	26	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	•		1	-40 to 125 °C	QFN20	C8051F530ADK
C8051F520	8 kB	25	0.25	6	LIN; SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps			1	-40 to 125 °C	DFN10	C8051F530ADK
C8051F521	8 kB	25	0.25	6	SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps			1	-40 to 125 °C	DFN10	C8051F530ADK
C8051F530	8 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps			1	-40 to 125 °C	QFN20/ TSSOP20	C8051F530ADK
C8051F531	8 kB	26	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps			1	-40 to 125 °C	QFN20	C8051F530ADK
C8051F523	4 kB	25	0.25	6	LIN; SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps			1	-40 to 125 °C	DFN10	C8051F530ADK
C8051F524	4 kB	25	0.25	6	SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps			1	-40 to 125 °C	DFN10	C8051F530ADK
C8051F533	4 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps			1	-40 to 125 °C	QFN20/ TSSOP20	C8051F530ADK
C8051F534	4 kB	25	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps			1	-40 to 125 °C	QFN20/ TSSOP20	C8051F530ADK
C8051F526	2 kB	25	0.25	6	LIN; SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps			1	-40 to 125 °C	DFN10	C8051F530ADK
C8051F527	2 kB	25	0.25	6	SPI; UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps			1	-40 to 125 °C	DFN10	C8051F530ADK
C8051F536	2 kB	25	0.25	16	LIN; SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps			1	-40 to 125 °C	QFN20/ TSSOP20	C8051F530ADK
C8051F537	2 kB	25	0.25	16	SPI; UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	•		1	-40 to 125 °C	QFN20/ TSSOP20	C8051F530ADK

High Performance Analog-Intensive MCUs

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG.	COMMUNICATIONS	TIMEDO		INT. OSC	ADC	ADC2	DAC	TEMP SENSOR	VREF	сомр.	PACKAGE	DEV KIT
C8051F120	128 kB	100	8	64	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	12-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•		2	TQFP100	C8051F120DK
C8051F121	128 kB	100	8	32	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	12-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.			2	TQFP64	C8051F120DK
C8051F122	128 kB	100	8	64	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.			2	TQFP100	C8051F120DK
C8051F123	128 kB	100	8	32	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.			2	TQFP64	C8051F120DK
C8051F130	128 kB	100	8	64	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps	_	_			2	TQFP100	C8051F120DK
C8051F131	128 kB	100	8	32	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps	_	_			2	TQFP64	C8051F120DK
C8051F124	128 kB	50	8	64	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	12-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.			2	TQFP100	C8051F120DK
C8051F125	128 kB	50	8	32	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	12-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.			2	TQFP64	C8051F120DK
C8051F126	128 kB	50	8	64	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2	TQFP100	C8051F120DK
C8051F127	128 kB	50	8	32	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2	TQFP64	C8051F120DK
C8051F132	64 kB	100	8	64	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps	_	_	•	•	2	TQFP100	C8051F120DK
C8051F133	64 kB	100	8	32	EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps	_	_	•	•	2	TQFP64	C8051F120DK
C8051F020	64 kB	25	4.25	64	EMIF; I ² C; SPI; UART; 2 x UART	5	5	±20%	12-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2	TQFP100	C8051F020DK
C8051F021	64 kB	25	4.25	32	EMIF; I ² C; SPI; UART; 2 x UART	5	5	±20%	12-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2	TQFP64	C8051F020DK
C8051F022	64 kB	25	4.25	64	EMIF; I ² C; SPI; UART; 2 x UART	5	5	±20%	10-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2	TQFP100	C8051F020DK
C8051F023	64 kB	25	4.25	32	EMIF; I ² C; SPI; UART; 2 x UART	5	5	±20%	10-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.		•	2	TQFP64	C8051F020DK
C8051F040	64 kB	25	4.25	64	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	12-bit, 13-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	٠	3	TQFP100	C8051F040DK
C8051F041	64 kB	25	4.25	32	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	12-bit, 13-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	3	TQFP64	C8051F040DK
C8051F042	64 kB	25	4.25	64	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	10-bit, 13-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	٠	3	TQFP100	C8051F040DK
C8051F043	64 kB	25	4.25	32	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	10-bit, 13-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	3	TQFP64	C8051F040DK
C8051F044	64 kB	25	4.25	64	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	10-bit, 13-ch., 100 ksps	_	_	•	•	3	TQFP100	C8051F040DK
C8051F045	64 kB	25	4.25	32	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	10-bit, 13-ch., 100 ksps	_	_	•	٠	3	TQFP64	C8051F040DK
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	16-bit, 1-ch., 1 Msps	12-bit, 2-ch.	•	•	3	TQFP100	C8051F060DK
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	16-bit, 1-ch., 1 Msps	12-bit, 2-ch.	•	•	3	TQFP64	C8051F060DK
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	16-bit, 1-ch., 1 Msps	12-bit, 2-ch.	•	•	3	TQFP100	C8051F060DK
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	16-bit, 1-ch., 1 Msps	12-bit, 2-ch.	•	•	3	TQFP64	C8051F060DK
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	16-bit, 1-ch., 1 Msps	_	_	•	3	TQFP100	C8051F060DK
C8051F065	64 kB	25	4.25	24	I ² C; SPI; UART; 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1-ch., 1 Msps	_	_		3	TQFP64	C8051F060DK
C8051F046	32 kB	25	4.25	64	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	10-bit, 13-ch., 100 ksps	_	_			3	TQFP100	C8051F040DK

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	ADC2	DAC	TEMP SENSOR	VREF	сомр.	PACKAGE	DEV KIT
C8051F047	32 kB	25	4.25	32	CAN; EMIF; I ² C; SPI; UART; 2 x UART	5	6	±2%	10-bit, 13-ch., 100 ksps	_	_	•	•	3	TQFP64	C8051F040DK
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	16-bit, 1-ch., 1 Msps	_	_		3	TQFP100	C8051F060DK
C8051F067	32 kB	25	4.25	24	I ² C; SPI; UART; 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1-ch., 1 Msps	_	_		3	TQFP64	C8051F060DK
C8051F005	32 kB	25	2.25	32	I ² C; SPI; UART	4	5	±20%	12-bit, 8-ch., 100 ksps	_	12-bit, 2-ch.	•		2	TQFP64	C8051F005DK
C8051F006	32 kB	25	2.25	16	I ² C; SPI; UART	4	5	±20%	12-bit, 8-ch., 100 ksps	_	12-bit, 2-ch.			2	TQFP48	C8051F005DK
C8051F007	32 kB	25	2.25	8	I ² C; SPI; UART	4	5	±20%	12-bit, 4-ch., 100 ksps	_	12-bit, 2-ch.			1	LQFP32	C8051F005DK
C8051F015	32 kB	25	2.25	32	I ² C; SPI; UART	4	5	±20%	10-bit, 8-ch., 100 ksps	_	12-bit, 2-ch.	•		2	TQFP64	C8051F005DK
C8051F016	32 kB	25	2.25	16	I ² C; SPI; UART	4	5	±20%	10-bit, 8-ch., 100 ksps	_	12-bit, 2-ch.	•		2	TQFP48	C8051F005DK
C8051F017	32 kB	25	2.25	8	I ² C; SPI; UART	4	5	±20%	10-bit, 4-ch., 100 ksps	_	12-bit, 2-ch.	•		1	LQFP32	C8051F005DK
C8051F000	32 kB	20	0.25	32	I ² C; SPI; UART	4	5	±20%	12-bit, 8-ch., 100 ksps	_	12-bit, 2-ch.	•		2	TQFP64	C8051F005DK
C8051F001	32 kB	20	0.25	16	I ² C; SPI; UART	4	5	±20%	12-bit, 8-ch., 100 ksps	_	12-bit, 2-ch.	•	•	2	TQFP48	C8051F005DK
C8051F002	32 kB	20	0.25	8	I ² C; SPI; UART	4	5	±20%	12-bit, 4-ch., 100 ksps	_	12-bit, 2-ch.	•		1	LQFP32	C8051F005DK
C8051F010	32 kB	20	0.25	32	I ² C; SPI; UART	4	5	±20%	10-bit, 8-ch., 100 ksps	_	12-bit, 2-ch.	•		2	TQFP64	C8051F005DK
C8051F011	32 kB	20	0.25	16	I ² C; SPI; UART	4	5	±20%	10-bit, 8-ch., 100 ksps	_	12-bit, 2-ch.			2	TQFP48	C8051F005DK
C8051F012	32 kB	20	0.25	8	I ² C; SPI; UART	4	5	±20%	10-bit, 4-ch., 100 ksps	_	12-bit, 2-ch.			1	LQFP32	C8051F005DK
C8051F018	16 kB	25	1.25	32	I ² C; SPI; UART	4	5	±20%	10-bit, 8-ch., 100 ksps	_	_			2	TQFP64	C8051F005DK
C8051F019	16 kB	25	1.25	16	I ² C; SPI; UART	4	5	±20%	10-bit, 8-ch., 100 ksps	_	_	•		2	TQFP48	C8051F005DK
C8051F350	8 kB	50	0.75	17	I ² C; SPI; UART	4	3	±2%	24-bit, 8-ch., 1 ksps	_	8-bit, 2-ch.	•		1	LQFP32	C8051F350DK
C8051F351	8 kB	50	0.75	17	I ² C; SPI; UART	4	3	±2%	24-bit, 8-ch., 1 ksps	_	8-bit, 2-ch.	•		1	QFN28	C8051F350DK
C8051F352	8 kB	50	0.75	17	I ² C; SPI; UART	4	3	±2%	16-bit, 8-ch., 1 ksps	_	8-bit, 2-ch.	•		1	LQFP32	C8051F350DK
C8051F353	8 kB	50	0.75	17	I ² C; SPI; UART	4	3	±2%	16-bit, 8-ch., 1 ksps	_	8-bit, 2-ch.	•		1	QFN28	C8051F350DK

Low-Power MCUs

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PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	TEMP SENSOR	VREF	сомр.	OTHER	PACKAGE	DEV KIT
C8051F960	128 kB	25	8	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	•	•	2	128 LCD Segments; AES; dc-dc; Low Power	DQFN76/ TQFP80	C8051F960DK
C8051F961	128 kB	25	8	34	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps			2	36 LCD Segments; AES; dc-dc; Low Power	QFN40	C8051F960DK
C8051F962	128 kB	25	8	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	•		2	AES; dc-dc; Low Power	DQFN76/ TQFP80	C8051F960DK
C8051F963	128 kB	25	8	34	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps			2	AES; dc-dc; Low Power	QFN40	C8051F960DK
C8051F964	64 kB	25	8	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps			2	128 LCD Segments; AES; dc-dc; Low Power	DQFN76/ TQFP80	C8051F960DK
C8051F965	64 kB	25	8	34	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps			2	36 LCD Segments; AES; dc-dc; Low Power	QFN40	C8051F960DK
C8051F930	64 kB	25	4.25	24	EMIF; I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 23-ch., 300 ksps			2	170 µA/MHz active 50 nA sleep; dc-dc; Low Power	QFN32/ LQFP32	C8051F930DK
C8051F931	64 kB	25	4.25	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 15-ch., 300 ksps	•		2	170 μA/MHz active 50 nA sleep; dc-dc; Low Power	QFN24	C8051F930DK

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	TEMP SENSOR	VREF	сомр.	OTHER	PACKAGE	DEV KIT
C8051F966	32 kB	25	8	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps			2	128 LCD Segments; AES; dc-dc; Low Power	DQFN76/ TQFP80	C8051F960DK
C8051F967	32 kB	25	8	34	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps			2	36 LCD Segments; AES; dc-dc; Low Power	QFN40	C8051F960DK
C8051F920	32 kB	25	4.25	24	EMIF; I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 23-ch., 300 ksps		•	2	170 μA/MHz active 50 nA sleep; dc-dc; Low Power	QFN32/ LQFP32	C8051F930DK
C8051F921	32 kB	25	4.25	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 15-ch., 300 ksps	•	•	2	170 μA/MHz active 50 nA sleep; dc-dc; Low Power	QFN24	C8051F930DK
C8051F968	16 kB	25	4.25	57	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps		•	2	128 LCD Segments; AES; dc-dc; Low Power	DQFN76/ TQFP80	C8051F960DK
C8051F969	16 kB	25	4.25	34	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 16-ch., 75 ksps	•	•	2	36 LCD Segments; AES; dc-dc; Low Power	QFN40	C8051F960DK
C8051F911	16 kB	25	0.75	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 15-ch., 300 ksps		•	2	160 µA/MHz active 50 nA sleep; dc-dc; Low Power	QFN24/ QSOP24	C8051F912DK
C8051F912	16 kB	25	0.75	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 15-ch., 75 ksps	•	•	2	160 μA/MHz active 50 nA sleep; dc-dc; Low Power	QFN24/ QSOP24	C8051F912DK
C8051F901	8 kB	25	0.75	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	10-bit, 15-ch., 300 ksps		•	2	160 µA/MHz active 50 nA sleep; dc-dc; Low Power	QFN20/ QSOP24	C8051F912DK
C8051F902	8 kB	25	0.75	16	I ² C; SPI; 2 x SPI; UART	4	6	±2%	12-bit, 15-ch., 75 ksps		•	2	160 μA/MHz active 50 nA sleep; dc-dc; Low Power	QFN24/ QSOP24	C8051F912DK
C8051F980	8 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%	12-bit, 9-ch., 75 ksps		•	1	10 nA sleep; 150 uA/MHz active; Low Power	QFN20	C8051F996DK
C8051F981	8 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%	_	_	_	1	10 nA sleep; 150 uA/MHz active; Low Power	QFN20	C8051F996DK
C8051F986	8 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	12-bit, 10-ch., 75 ksps		•	1	10 nA sleep; 150 uA/MHz active; Low Power	QFN24/ QSOP24	C8051F996DK
C8051F987	8 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	_	_	_	1	10 nA sleep; 150 uA/MHz active; Low Power	QFN24/ QSOP24	C8051F996DK
C8051F982	4 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%	10-bit, 9-ch., 300 ksps		•	1	10 nA sleep; 150 uA/MHz active; Low Power	QFN20	C8051F996DK
C8051F983	4 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%		_	_	1	10 nA sleep; 150 uA/MHz active; Low Power	QFN20	C8051F996DK
C8051F988	4 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	10-bit, 10-ch., 300 ksps		•	1	10 nA sleep; 150 uA/MHz active; Low Power	QFN24/ QSOP24	C8051F996DK
C8051F989	4 kB	25	0.5	17	I ² C; SPI; UART	4	3	±2%	_	_	_	1	10 nA sleep; 150 uA/MHz active; Low Power	QFN24/ QSOP24	C8051F996DK
C8051F985	2 kB	25	0.5	16	I ² C; SPI; UART	4	3	±2%	_	_	_	1	10 nA sleep; 150 uA/MHz active; Low Power	QFN20	C8051F996DK

USB MCUs

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PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	TEMP SENSOR	VREF	сомр.	PACKAGE	DEV KIT
C8051F34C	64 kB	48	5.25	40	EMIF; I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	_	_	_	2	TQFP48	C8051F340DK
C8051F34D	64 kB	48	5.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	_	_	_	2	LQFP32	C8051F340DK
C8051F340	64 kB	48	4.25	40	EMIF; I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 20-ch., 200 ksps			2	TQFP48	C8051F340DK
C8051F342	64 kB	48	4.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksps	•		2	QFN32/ LQFP32	C8051F340DK
C8051F34A	64 kB	48	4.25	25	l ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksps	•		2	QFN32/ LQFP32	C8051F340DK
C8051F380	64 kB	48	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 ksps			2	TQFP48	C8051F380DK
C8051F381	64 kB	48	4.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±0.5%	10-bit, 21-ch., 500 ksps			2	QFN32/ LQFP32	C8051F380DK

PART NUMBER	FLASH MEMORY	MHz	RAM (kB)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	TEMP SENSOR	VREF	сомр.	PACKAGE	DEV KIT
C8051F384	64 kB	48	4.25	40	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	_	_	_	2	TQFP48	C8051F380DK
C8051F385	64 kB	48	4.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	_	_	_	2	QFN32/ LQFP32	C8051F380DK
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	QFN32	C8051T620DK
C8051F344	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 ksps	•		2	TQFP48	C8051F340DK
C8051F346	64 kB	25	4.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksps			2	QFN32/ LQFP32	C8051F340DK
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	QFN32	C8051T620DK
C8051F341	32 kB	48	2.25	40	EMIF; I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 20-ch., 200 ksps	•		2	TQFP48	C8051F340DK
C8051F343	32 kB	48	2.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksps			2	QFN32/ LQFP32	C8051F340DK
C8051F34B	32 kB	48	2.25	25	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksps			2	QFN32/ LQFP32	C8051F340DK
C8051F382	32 kB	48	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 ksps	•		2	TQFP48	C8051F380DK
C8051F383	32 kB	48	2.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	10-bit, 32-ch., 500 ksps			2	QFN32/ LQFP32	C8051F380DK
C8051F386	32 kB	48	2.25	40	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	_	_	_	2	TQFP48	C8051F380DK
C8051F387	32 kB	48	2.25	25	I ² C; 2 x I ² C; SPI; UART; 2 x UART; USB	6	5	±1.5%	_	_	_	2	QFN32/ LQFP32	C8051F380DK
C8051F345	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 ksps	•		2	TQFP48	C8051F340DK
C8051F347	32 kB	25	2.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 21-ch., 200 ksps			2	QFN32/ LQFP32	C8051F340DK
C8051F348	32 kB	25	2.25	40	EMIF; I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	_	_	_	2	TQFP48	C8051F340DK
C8051F349	32 kB	25	2.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	_	_	_	2	QFN32/ LQFP32	C8051F340DK
C8051T320	16 kB	48	1.25	25	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 16-ch., 500 ksps	•		2	LQFP32	C8051T620DK
C8051T321	16 kB	48	1.25	21	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 16-ch., 500 ksps	•		2	QFN28	C8051T620DK
C8051T322	16 kB	48	1.25	25	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	_	_	_	2	LQFP32	C8051T620DK
C8051T323	16 kB	48	1.25	21	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	_	_	_	2	QFN28	C8051T620DK
C8051T326	16 kB	48	1.25	15	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	_	_	_	_	QFN28	C8051T62DK
C8051T327	16 kB	48	1.25	15	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	_	_	_	_	QFN28	C8051T622DK
C8051T620	16 kB	48	1.25	24	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	10-bit, 20-ch., 500 ksps	•		2	QFN32	C8051T620DK
C8051T621	16 kB	48	1.25	24	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	_	_	_	2	QFN32	C8051T620DK
C8051T622	16 kB	48	1.25	16	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	_	_	_	_	QFN24	C8051T620DK
C8051F320	16 kB	25	2.25	25	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 17-ch., 200 ksps	•		2	LQFP32	C8051F320DK
C8051F321	16 kB	25	2.25	21	I ² C; SPI; UART; USB	4	5	±1.5%	10-bit, 13-ch., 200 ksps	•		2	QFN28	C8051F320DK
C8051F326	16 kB	25	1.5	15	UART; USB	2	_	±1.5%	_	_	_	_	QFN28	C8051F326DK
C8051F327	16 kB	25	1.5	15	UART; USB	2	_	±1.5%	_	_	_	_	QFN28	C8051F326DK
C8051T623	8 kB	48	1.25	16	I ² C; SPI; UART; 2 x UART; USB	4	5	±1.5%	_	_	_	_	QFN24	C8051T622DK

Wireless MCUs

PART NUMBER	FLASH MEM.	MHz	RAM (kB)	DIG. I/O	сомм.	FSK/ GFSK	OOK (kbps)	OUTPUT POWER	2/4.8 KBPS	TX CURF (mA +11/+20		TIMERS (16- BIT)	PWM/ PCA	INT. OSC	ADC	COMP.	OTHER	PACKAGE	DEV KIT
Si1020	128 kB	25	8448	53	I ² C, 2x SPI, UART	(kbps) 256	40	(dBm) +1 to +20	-121/ -110	(dBN 85 mA	1) —	4	6	±2%	12-bit, 16-ch., 75 ksps	2	128 LCD Segments	LGA85	Si1020DK

PART NUMBER	FLASH MEM.	MHz	RAM (kB)	DIG. I/O	сомм.	FSK/ GFSK (kbps)	OOK (kbps)	OUTPUT POWER (dBm)	2/4.8 KBPS SENS.	TX CURI (mA +11/+20 (dBN	.) +13	TIMERS (16- BIT)	PWM/ PCA	INT. OSC	ADC	сомр.	OTHER	PACKAGE	DEV KIT
Si1024	128 kB	25	8448	53	I ² C, 2x SPI, UART	256	40	-8 to +13	-121/ -110	17 mA	30 mA	4	6	±2%	12-bit, 16-ch., 75 ksps	2	128 LCD Segments	LGA85	Si1020DK
Si1030	128 kB	25	8448	53	I ² C, 2x SPI, UART	256	40	+1 to +20	-121/ -110	85 mA	_	4	6	±2%	12-bit, 16-ch., 75 ksps	2	_	LGA85	Si1020DK
Si1034	128 kB	25	8448	53	I ² C, 2x SPI, UART	256	40	-8 to +13	-121/ -110	17 mA	30 mA	4	6	±2%	12-bit, 16-ch., 75 ksps	2	_	LGA85	Si1020DK
Si1000	64 kB	25	4352	22	I ² C, SPI, UART	256	40	+1 to +20	-121/ -110	35 mA/85 mA	_	4	6	±2%	10-bit, 18-ch., 300 ksps	2	CRC; RTC	LGA42	Si1000DK
Si1002	64 kB	25	4352	22	I ² C, SPI, UART	256	40	-8 to +13	-121/ -110	_	30 mA	4	6	±2%	10-bit, 18-ch., 300 ksps	2	CRC; RTC	LGA42	Si1000DK
Si1004	64 kB	25	4352	19	I ² C, SPI, UART	256	40	-8 to +13	-121/ -110	_	30 mA	4	6	±2%	10-bit, 15-ch., 300 ksps	2	CRC; dc-dc; RTC	LGA42	Si1000DK
Si1021	64 kB	25	8448	53	I ² C, 2x SPI, UART	256	40	+1 to +20	-121/ -110	85 mA	_	4	6	±2%	12-bit, 16-ch., 75 ksps	2	128 LCD Segments	LGA85	Si1020DK
Si1025	64 kB	25	8448	53	I ² C, 2x SPI, UART	256	40	-8 to +13	-121/ -110	17 mA	30 mA	4	6	±2%	12-bit, 16-ch., 75 ksps	2	128 LCD Segments	LGA85	Si1020DK
Si1031	64 kB	25	8448	53	I ² C, 2x SPI, UART	256	40	+1 to +20	-121/ -110	85 mA	_	4	6	±2%	12-bit, 16-ch., 75 ksps	2	_	LGA85	Si1020DK
Si1035	64 kB	25	8448	53	I ² C, 2x SPI, UART	256	40	-8 to +13	-121/ -110	17 mA	30 mA	4	6	±2%	12-bit, 16-ch., 75 ksps	2	_	LGA85	Si1020DK
Si1060	64 kB	25	4352	15	I ² C; SPI; UART	512	120	-20 to +20	-126	18 mA/85 mA	29 mA	4	6	±2%	10-bit, 18-ch., 300 ksps	2	CRC; RTC	QFN36	Si106xDK
Si1062	64 kB	25	4352	15	I ² C; SPI; UART	512	120	-40 to +13	-126	18 mA	29 mA	4	6	±2%	10-bit, 18-ch., 300 ksps	2	CRC; RTC	QFN36	Si106xDK
Si1064	64 kB	25	4352	15	I ² C; SPI; UART	512	120	-40 to +13	-116	18 mA	29 mA	4	6	±2%	10-bit, 15-ch., 300 ksps	2	CRC; RTC	QFN36	Si1064DK
Si1001	32 kB	25	4352	22	I ² C, SPI, UART	256	40	+1 to +20	-121/ -110	35 mA/85 mA	_	4	6	±2%	10-bit, 18-ch., 300 ksps	2	CRC; RTC	LGA42	Si1000DK
Si1003	32 kB	25	4352	22	I ² C, SPI, UART	256	40	-8 to +13	-121/ -110	_	30 mA	4	6	±2%	10-bit, 18-ch., 300 ksps	2	CRC; RTC	LGA42	Si1000DK
Si1005	32 kB	25	4352	19	I ² C, SPI, UART	256	40	-8 to +13	-121/ -110	_	30 mA	4	6	±2%	10-bit, 15-ch., 300 ksps	2	CRC; dc-dc; RTC	LGA42	Si1000DK
Si1022	32 kB	25	8448	53	I ² C, 2x SPI, UART	256	40	+1 to +20	-121/ -110	85 mA	_	4	6	±2%	12-bit, 16-ch., 75 ksps	2	128 LCD Segments	LGA85	Si1020DK
Si1026	32 kB	25	8448	53	I ² C, 2x SPI, UART	256	40	-8 to +13	-121/ -110	17 mA	30 mA	4	6	±2%	12-bit, 16-ch., 75 ksps	2	128 LCD Segments	LGA85	Si1020DK
Si1032	32 kB	25	8448	53	I ² C, 2x SPI, UART	256	40	+1 to +20	-121/ -110	85 mA	_	4	6	±2%	12-bit, 16-ch., 75 ksps	2	_	LGA85	Si1020DK
Si1036	32 kB	25	8448	53	I ² C, 2x SPI, UART	256	40	-8 to +13	-121/ -110	17 mA	30 mA	4	6	±2%	12-bit, 16-ch., 75 ksps	2	_	LGA85	Si1020DK
Si1061	32 kB	25	4352	15	I ² C; SPI; UART	512	120	-20 to +20	-126	18 mA/85 mA	29 mA	4	6	±2%	10-bit, 18-ch., 300 ksps	2	CRC; RTC	QFN36	Si106xDK
Si1063	32 kB	25	4352	15	I ² C; SPI; UART	512	120	-40 to +13	-126	18 mA	29 mA	4	6	±2%	10-bit, 18-ch., 300 ksps	2	CRC; RTC	QFN36	Si106xDK
Si1065	32 kB	25	4352	15	I ² C; SPI; UART	512	120	-40 to +13	-116	18 mA	29 mA	4	6	±2%	10-bit, 18-ch., 300 ksps	2	CRC; RTC	QFN36	Si1064DK
Si1010	16 kB	25	768	15	I ² C, SPI, UART	256	40	+1 to +20	-121/ -110	35 mA/85 mA	_	4	6	±2%	12-bit, 11-ch., 75 ksps	2	CRC; RTC	LGA42	Si1010DK
Si1012	16 kB	25	768	15	I ² C, SPI, UART	256	40	-8 to +13	-121/ -110	_	30 mA	4	6	±2%	12-bit, 11-ch., 75 ksps	2	CRC; RTC	LGA42	Si1010DK

PART NUMBER	FLASH MEM.	MHz	RAM (kB)	DIG. I/O	сомм.	FSK/ GFSK (kbps)	OOK (kbps)	OUTPUT POWER (dBm)	2/4.8 KBPS SENS.	TX CURI (mA +11/+20 (dBN	.) +13	TIMERS (16- BIT)	PWM/ PCA	INT. OSC	ADC	сомр.	OTHER	PACKAGE	DEV KIT
Si1014	16 kB	25	768	15	I ² C, SPI, UART	256	40	-8 to +13	-121/ -110	_	30 mA	4	6	±2%	12-bit, 11-ch., 75 ksps	2	CRC; dc-dc; RTC	LGA42	Si1010DK
Si1023	16 kB	25	4352	53	I ² C, 2x SPI, UART	256	40	+1 to +20	-121/ -110	85 mA	_	4	6	±2%	12-bit, 16-ch., 75 ksps	2	128 LCD Segments	LGA85	Si1020DK
Si1027	16 kB	25	4352	53	I ² C, 2x SPI, UART	256	40	-8 to +13	-121/ -110	17 mA	30 mA	4	6	±2%	12-bit, 16-ch., 75 ksps	2	128 LCD Segments	LGA85	Si1020DK
Si1033	16 kB	25	4352	53	I ² C, 2x SPI, UART	256	40	+1 to +20	-121/ -110	85 mA	_	4	6	±2%	12-bit, 16-ch., 75 ksps	2	_	LGA85	Si1020DK
Si1037	16 kB	25	4352	53	I ² C, 2x SPI, UART	256	40	-8 to +13	-121/ -110	17 mA	30 mA	4	6	±2%	12-bit, 16-ch., 75 ksps	2	_	LGA85	Si1020DK
Si1080	16 kB	25	768	15	I ² C; SPI; UART	512	120	-20 to +20	-126	18 mA/85 mA	29 mA	4	6	±2%	10-bit, 18-ch., 300 ksps	2	CRC; RTC	QFN36	Si106xDK
Si1082	16 kB	25	768	15	I ² C; SPI; UART	512	120	-40 to +13	-126	18 mA	29 mA	4	6	±2%	10-bit, 18-ch., 300 ksps	2	CRC; RTC	QFN36	Si106xDK
Si1084	16 kB	25	768	15	I ² C; SPI; UART	512	120	-40 to +13	-116	18 mA	29 mA	4	6	±2%	10-bit, 15-ch., 300 ksps	2	CRC; RTC	QFN36	Si1064DK
Si1011	8 kB	25	768	15	I ² C, SPI, UART	256	40	+1 to +20	-121/ -110	35 mA/85 mA	_	4	6	±2%	12-bit, 11-ch., 75 ksps	2	CRC; RTC	LGA42	Si1010DK
Si1013	8 kB	25	768	15	I ² C, SPI, UART	256	40	-8 to +13	-121/ -110	_	30 mA	4	6	±2%	12-bit, 11-ch., 75 ksps	2	CRC; RTC	LGA42	Si1010DK
Si1015	8 kB	25	768	15	I ² C, SPI, UART	256	40	-8 to +13	-121/- 110	_	30 mA	4	6	±2%	12-bit, 11-ch., 75 ksps	2	CRC; dc-dc; RTC	LGA42	Si1010DK
Si1081	8 kB	25	768	15	I ² C; SPI; UART	512	120	-20 to +20	-126	18 mA/85 mA	29 mA	4	6	±2%	10-bit, 18-ch., 300 ksps	2	CRC; RTC	QFN36	Si106xDK
Si1083	8 kB	25	768	15	I ² C; SPI; UART	512	120	-40 to +13	-126	18 mA	29 mA	4	6	±2%	10-bit, 15-ch., 300 ksps	2	CRC; RTC	QFN36	Si106xDK
Si1085	8 kB	25	768	15	I ² C; SPI; UART	512	120	-40 to +13	-116	18 mA	29 mA	4	6	±2%	10-bit, 15-ch., 300 ksps	2	CRC; RTC	QFN36	Si1064DK

Interface Products

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Smart Interface Devices

PART NUMBER	DESCRIPTION	LCD SEGMENTS	EEPROM (kB)	RAM (BYTES)	DIGITAL PORT I/O PINS	сомм.	TIMERS (16-BIT)	INT. OSC	TEMP RANGE	OTHER	PACKAGE	EVAL KIT
CP2102	UART to USB Bridge	_	1024	1024	_	UART, USB 2.0	_		-40 to 85 °C	Volt Reg	QFN28	CP2102EK
CP2103	UART to USB Bridge	_	1024	1024	4	UART, USB 2.0	_		-40 to 85 °C	Volt Reg, RS-485	QFN28	CP2103EK
CP2104	UART to USB Bridge	_	1024	1152	4	UART, USB 2.0	_		-40 to 85 °C	Volt Reg, RS-485	QFN24/ QFN28	CP2104EK
CP2105	USB to Dual UART	_	296	608	5	UART, USB 2.0	_		-40 to 85 °C	Volt Reg, RS-485	QFN24	CP2105EK
CP2108	USB to Quad UART	_	Yes	1536 (FIFO)	16	UART, USB 2.0	_		-40 to 85 °C	RS-485	QFN64	CP2108EK
CP2110	HID USB to UART Bridge	_	343	960	10	UART, USB 2.0	_		-40 to 85 °C	Volt Reg, RS-485	QFN24/ QFN28	CP2110EK
CP2112	USB to I ² C Bridge	_	194	512	8	USB 2.0, I ² C	_	•	-40 to 85 °C	Volt Reg	QFN24	CP2112EK
CP2114	USB to I ² S Audio Bridge	_	352	512 (FIFO)	12	USB 2.0, I ² S	_		-40 to 85 °C	Volt Reg	QFN32	CO2114EK
CP2120	SPI to I ² C Bridge, GPIO Port Expander	_	0	512 (buffer RAM)	_	SPI to I ² C	_		-40 to 85 °C	Voltage Monitor	QFN20	CP2120EB
CP2130	USB to SPI Bridge	_	348	320 (FIFO)	11	USB to SPI	_	•	-40 to 85 °C	Split VDDIO; VREG	QFN24	CP2130EK

PART NUMBER	DESCRIPTION	LCD SEGMENTS	EEPROM (kB)	RAM (BYTES)	DIGITAL PORT I/O PINS	сомм.	TIMERS (16-BIT)	INT. OSC	TEMP RANGE	OTHER	PACKAGE	EVAL KIT
CP2200	Ethernet Controller	_	8 K	2 kB TX buffer, 4 kB RX buffer	_	8-bit n-muxed Ext. Mem I/F	_		-40 to 85 °C	Integrated Ethernet Transceiver	TQFP48	ETHERNETDK
CP2201	Ethernet Controller	_	8 K	2 kB TX buffer, 4 kB RX buffer	_	8-bit muxed Ext. Mem I/F	_		−40 to 85 °C	Integrated Ethernet Transceiver	QFN28	ETHERNETDK
CP2400	LCD Driver	128	0	256	36	SPI	2		-40 to 85 °C	Ultra-low power mode	QFN48/ TQFP48	CP2400DK
CP2401	LCD Driver	128	0	256	36	I ² C	2		-40 to 85 °C	Ultra-low power mode	QFN48/ TQFP48	CP2401DK
CP2402	LCD Driver	64	0	256	20	SPI	2	•	-40 to 85 °C	Ultra-low power mode	QFN32	CP2400DK
CP2403	LCD Driver	64	0	256	20	I ² C	2		-40 to 85 °C	Ultra-low power mode	QFN32	CP2401DK

Silicon Labs Online Utilities

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MCU Parametric Search

Silicon Labs offers an easy-to-use parametric search for our Microcontroller products. Click the buttons to filter as you search for the features you require and find the perfect part to meet your needs. You can then buy or sample parts or export your results into a sortable Excel spreadsheet. www.silabs.com/parametric-search

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Hardware Support

FIND THE TOOLS YOU NEED TO HELP WITH YOUR ENTIRE PROJECT www.silabs.com/MCU

Development Kits

Silicon Labs offers complete tools to help designers throughout the entire project. All microcontroller solutions offer hardware and software platforms to easily set up and configure, compile and debug a project. Full documentation and a broad range of third-party compilers and development tools are available. Software stacks provide networking support for multi-node metering networks. Software simulation tools can estimate power consumption and determine expected battery life. www.silabs.com/devkits

Complete development/prototyping system includes the following:

- Prototyping/demonstration board
- Integrated development environment
- Configuration tools
- MCU configuration wizard





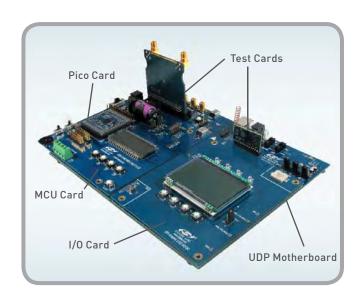
Unified Development Platform

Silicon Labs offers an innovative approach in hardware support with the Unified Development Platform (UDP), featuring a main mother board, modular daughter cards, integrated LCD and ample real estate for prototyping, expansion and integration. The UDP provides a standalone demonstration and software development platform for the Wireless MCU devices and both 8-bit and Precision32™ 32-bit MCU products. Kits include UDP base boards and RF test cards. Additional test cards may be ordered if the 915 MHz or 868 MHz test cards don't satisfy the requirements for the end application.

www.silabs.com/UDP

The UDP platform supports all of the following:

- MCU code and firmware development (IDE, Configuration Wizard, example code etc.)
- RF design and optimization (WDS support, automatic board detection and firmware download, sample RF code, run-time PHY interface etc.)
- Networks and protocol stacks (such as the wireless M-Bus stack)













CP2104 MINI **EVALUATION KIT**

8-bit Microcontroller Software

FIND THE TOOLS YOU NEED TO HELP WITH YOUR ENTIRE PROJECT www.silabs.com/8bit-software

Silicon Labs 8-bit IDE

The Silicon Labs Integrated Development Environment (IDE) is a complete, stand-alone software program that includes the items following:

- 4 kB C compiler included
- Source code editor
- Project manager
- Keil 8051 macro assembler and linker
- Device programmer
- Supports full-speed, non-intrusive, in-circuit debug logic
- Source-level debug

- Variable watch window
- Real-time breakpoints
- Conditional memory watchpoints
- Memory and register inspect/modify
- Supports third-party development tools
- Single-step and animated execution modes

The IDE interfaces to third party development tool chains to provide system designers a complete embedded software development environment. The IDE and other development tools run under the Windows 2000, Windows XP and Windows Server 2003 operating systems and support the entire MCU portfolio.

32-bit Microcontroller Software

FIND THE TOOLS YOU NEED TO HELP WITH YOUR ENTIRE PROJECT

Precision32[™] Development Suite

Silicon Labs offers advanced software development tools, available at no charge to developers. Precision32 Development Suite includes all of the following components:

- Precision32 Integrated Development Environment (IDE)
- Precision32 AppBuilder Rapid Prototyping Utility
- "Power Aware" System Optimization Tools
- Si32 SDK (HAL, Software Libraries and Development Kit Utilities)

www.silabs.com/32bit-software

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Simplicity Studio

Silicon Labs' EFM32™ 32-bit MCUs are supported by Simplicity Studio — a complimentary software suite that provides instant, one-click access to all your EFM32 tools, software, code examples, news, documents and resources.

- Always updated: Automatically keeps you up-to-date with changes affecting your development environment.
- One-click accessibility: Gives you instant access to tools, relevant documentation, software and source code libraries.
- World-class simplicity: Includes a product selector to help you speed up the MCU selection process.



Silicon Labs' products are designed and manufactured to ISO 9001, ISO 14001 and ISO/TS 16949 standards.



ISO 9001

Quality Management System Design and Manufacture of Integrated Circuits Certificate Registration No: 951 08 4762



Environmental Management System Design and Manufacture of Integrated Circuits Certificate Registration No: 951 09 4998



ISO/TS 16949

Quality Management System for Manufacture of Integrated Circuits and Related Products for Automotive Applications Certificate Registration No.: 12 111 33114 TMS IATF Certificate No.: 0080212



Mixed Sources

Product group from well-managed forests, controlled sources and recycled wood or fiber www.fs.corg Cert no. SW-COC-001730 © 1996 Forest Stewardship Council

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