

**M16C Family**

The M16C family offers the industry's broadcast multi-purpose microcontroller platform, with seamless code and pin compatibility – all the way from 8-bit to 32-bit functionality. A robust platform of 16/32-bit CISC microcontrollers with speeds from 16MHz – 64MHz, up to 512K on-chip flash memory, high ROM code efficiency, extensive EMI/EMS noise immunity, and very low power consumption. It also features a broad choice of standard on-chip peripheral options and the highest pin-to-pin compatibility (up to 144 pins) in the industry.

**M16C Platform Series**

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each				
													1	25	100		
Flash	64K	—	3K	14-ch. 10-bit	1-ch. 8-bit	2 USART, 1 CAN	4/1/—	37	16MHz/4.2 – 5.5V	-40°C – 85°C	48-LQFP	M301N2F8TFFP#U3-ND	14.52	13.56	12.59		
	128K	—	10K	8-ch. 10-bit	—	4 USART, 1 I2C	—/5/—	85	16MHz/3.0 – 3.6V	-20°C – 85°C	100-LQFP	M30245FCGP#U1-ND	15.00	14.00	13.00		
	96K	4K	5K	24-ch. 10-bit	—	—	UART, CAN, IEBus, SIO, I2C	—/9/—	71	20MHz/4.2 – 5.5V	-20°C – 85°C	85-TLGA	M30280FAWG#U7B-ND	12.29	11.04	9.79	
													M30302FAPFP#U3-ND	6.30	5.04	4.26	
													M30302FAPFP#U5-ND	6.00	4.80	4.05	
													M30302FAPGP#U3-ND	5.88	4.71	3.97	
	128K	4K	5K	18-ch. 10-bit	—	—	3 USART, 3 I2C	—/6/—	88	16MHz/2.7 – 5.5V	-40°C – 85°C	100-QFP	M30302FCPP#U3-ND	6.52	5.22	4.41	
													M30302FCPP#U5-ND	6.20	4.96	4.19	
													M30302FCPP#U3-ND	6.10	4.88	4.12	
													M30302FCPP#U5-ND	5.80	4.64	3.92	
	192K	4K	6K	18-ch. 10-bit	—	—	3 USART, 3 I2C	—/6/—	88	16MHz/2.7 – 5.5V	-40°C – 85°C	100-QFP	M30302FEPP#U3-ND	6.94	5.56	4.69	
													M30302FEPP#U5-ND	6.60	5.28	4.46	
M30302FEPP#U3-ND													6.52	5.22	4.41		
M30302FEPP#U5-ND													6.20	4.96	4.19		
ROMless	—	—	6K	18-ch. 10-bit	—	3 USART, 3 I2C	—/6/—	88	16MHz/2.7 – 5.5V	-40°C – 85°C	100-QFP	M30302SPFP#U3-ND	6.10	4.88	4.12		
Flash	256K	—	8K	—	—	5 USART, 1 I2C	—/11/—	89	16MHz/2.7 – 5.5V	-20°C – 70°C	116-LQFP	M306H5FGFP#U0-ND	38.10	35.56	33.02		
												M306H7FGFP#U0-ND	19.62	18.32	17.01		
												M306NLFHFP#U3-ND	21.00	19.60	18.20		
												M306NLFJFP#U3-ND	23.00	21.47	19.93		
	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I2C, 1 CAN	—/11/—	88	24MHz/3 – 5.5V	-40°C – 85°C	100-LQFP	M306NLFHFP#U3-ND	23.00	21.47	19.93		
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I2C, 1 CAN	—/11/—	88	24MHz/3 – 5.5V	-40°C – 85°C	100-LQFP	M306NLFJFP#U3-ND	23.00	21.47	19.93		
	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	7 USART, 3 I2C, 1 CAN	—/11/—	114	24MHz/3 – 5.5V	-40°C – 85°C	128-LQFP	M306NLFHFP#U3-ND	24.00	22.40	20.80		
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	7 USART, 3 I2C, 1 CAN	—/11/—	114	24MHz/3 – 5.5V	-40°C – 85°C	128-LQFP	M306NLFJFP#U3-ND	24.00	22.40	20.80		
	256K	4K	10K	26-ch. 10-bit	2-ch. 8-bit	UART, CAN, IEBus, SIO, I2C	—/11/—	87	24MHz/3.0 – 5.5V	-40°C – 85°C	100-QFP	M306N4FTFP#U3-ND	30.11	28.10	26.10		
	128K	4K	5K	26-ch. 10-bit	2-ch. 8-bit	4 USART, 3 I2C, 1 CAN	—/11/—	88	20MHz/4.2 – 5.5V	-40°C – 85°C	100-QFP	M306N5FCTFP#U0-ND	24.77	23.12	21.47		
													M306N5FCTFP#U3-ND	24.77	23.12	21.47	
													M306N5FCTFP#U5-ND	24.77	23.12	21.47	
													M306N5FCTFP#U3-ND	24.77	23.12	21.47	
		96K	—	24K	—	—	5 USART, 3 I2C	—/5/—	22	15.36MHz/3 – 3.6V	-40°C – 85°C	64-LQFP	M306S0FAGP#U3-ND	15.00	14.00	13.00	
													M306S0FAGP#U5-ND	14.28	13.33	12.38	
													M306V7FJFP#U0-ND	31.04	28.97	26.90	
													M306V7FJFP#U3-ND	15.12	14.12	13.11	
		256K	4K	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I2C	—/11/—	88	24MHz/2.7 – 5.5V	-40°C – 85°C	100-QFP	M3062LFGFP#U3C-ND	14.40	13.44	12.48	
													M3062LFGFP#U5C-ND	15.32	14.30	13.28	
													M3062LFGFP#U9C-ND	14.60	13.63	12.65	
													M3062LFGFP#U3C-ND	14.70	13.72	12.74	
	4K		20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I2C	—/11/—	88	24MHz/2.7 – 5.5V	-40°C – 85°C	100-LQFP	M3062LFGFP#U5C-ND	14.00	13.07	12.13		
												M3062LFGFP#U7C-ND	14.90	13.91	12.91		
												M3062LFGFP#U9C-ND	14.21	13.26	12.32		
												M3062LFGFP#U3C-ND	14.10	13.16	12.22		
	4K		10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I2C	—/11/—	88	24MHz/2.7 – 5.5V	-40°C – 85°C	100-QFP	M30620FCPP#U3C-ND	14.95	13.43	11.91		
												M30620FCPP#U5C-ND	14.30	13.35	12.39		
												M30620FCPP#U7C-ND	13.62	12.72	11.81		
												M30620FCPP#U9C-ND	14.18	13.23	12.29		
	4K	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I2C	—/11/—	88	24MHz/2.7 – 5.5V	-40°C – 85°C	100-LQFP	M30620FCPP#U3C-ND	14.99	13.50	11.97			
											M30620FCPP#U5C-ND	13.50	12.60	11.70			
											M30620FCPP#U7C-ND	14.39	13.43	12.47			
											M30620FCPP#U9C-ND	13.70	12.79	11.87			
	ROMless	—	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I2C	—/11/—	88	24MHz/2.7 – 5.5V	-40°C – 85°C	100-QFP	M30620SPFP#U3C-ND	10.54	9.47	8.40	
	Flash	128K	—	10K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I2C	—/11/—	71	24MHz/2.7 – 5.5V	-40°C – 85°C	80-LQFP	M30621FCGFP#U3C-ND	14.85	13.34	11.83	
													M30621FCGFP#U5C-ND	14.14	12.71	11.27	
													M30621FCGFP#U9C-ND	14.36	12.90	11.44	
													M30622F8FP#U3C-ND	13.76	12.84	11.93	
		64K	4K	4K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I2C	—/11/—	88	24MHz/2.7 – 5.5V	-40°C – 85°C	100-QFP	M30622F8FP#U5C-ND	14.54	13.10	11.62	
													M30622F8FP#U7C-ND	13.97	13.04	12.11	
													M30622F8FP#U9C-ND	14.78	13.31	11.80	
													M30622F8FP#U3C-ND	13.88	12.50	11.08	
		ROMless	64K	—	4K	10-ch. 10-bit	2-ch. 8-bit	5 USART, 1 I2C	—/11/—	88	16MHz/2.7 – 5.5V	-20°C – 85°C	100-QFP	M30622SAPFP#U5-ND	9.86	7.89	6.66
														M30622SAPFP#U3C-ND	9.30	8.36	7.41
														M30622SAPFP#U5C-ND	8.47	7.61	6.75
														M30622SPGP#U3C-ND	8.57	7.70	6.83
	256K		—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I2C	—/11/—	71	24MHz/2.7 – 5.5V	-20°C – 85°C	80-QFP	M30623F8FP#U3C-ND	13.88	12.50	11.08	
													M30623F8FP#U5C-ND	37.68	35.17	32.66	
M30624FGAFP#U5-ND													35.87	33.48	31.09		
M30624FGAFP#U3-ND													37.68	35.17	32.66		
4K	20K		26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I2C	—/11/—	88	24MHz/2.7 – 5.5V	-40°C – 85°C	100-QFP	M30624FGAFP#U3C-ND	16.38	15.29	14.20			
											M30624FGAFP#U5C-ND	16.58	15.47	14.37			
											M30624FGAFP#U9C-ND	15.80	14.75	13.69			
											M30624FGAFP#U3C-ND	15.74	14.69	13.64			
4K	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I2C	—/11/—	88	24MHz/2.7 – 5.5V	-40°C – 85°C	100-LQFP	M30624FGAFP#U5C-ND	15.00	14.00	13.00				
										M30624FGAFP#U7C-ND	15.95	14.89	13.82				
										M30624FGAFP#U9C-ND	15.20	14.19	13.17				
										M30624SPFP#U3C-ND	12.37	11.12	9.86				
Flash	256K	—	20K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I2C	—/11/—	114	24MHz/2.7 – 5.5V	-40°C – 85°C	128-LQFP	M30625FGFP#U3C-ND	16.80	15.68	14.56		
												M30625FGFP#U5C-ND	17.78	16.01	14.20		
												M30625FGFP#U9C-ND	16.01	14.94	13.88		
												M30625FGFP#U3C-ND	17.00	15.87	14.73		
	384K	4K	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I2C	—/11/—	88	24MHz/2.7 – 5.5V	-40°C – 85°C	100-QFP	M30626FHFP#U3C-ND	18.48	17.25	16.02		
												M30626FHFP#U5C-ND	17.60	16.43	15.25		
												M30626FHFP#U7C-ND	18.68	17.43	16.19		
												M30626FHFP#U9C-ND	18.68	17.43	16.19		

◆ RoHS Compliant \*SSU = SPI

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Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	384K	4K	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I <sup>2</sup> C	—/11/—	88	24MHz/2.7 - 5.5V	-20°C - 85°C	100-QFP	M30626FHFP#U9C-ND	17.81	16.62	15.44
		4K										M30626FHGP#U3C-ND	17.84	16.65	15.46
		4K										M30626FHGP#U5C-ND	17.00	15.87	14.73
	512K	4K	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I <sup>2</sup> C	—/11/—	88	24MHz/2.7 - 5.5V	-20°C - 85°C	100-QFP	M30626FJFP#U3C-ND	20.58	19.21	17.84
		4K										M30626FJFP#U5C-ND	19.61	18.30	17.00
		4K										M30626FJFP#U7C-ND	20.78	19.39	18.01
ROMless	—	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I <sup>2</sup> C	—/11/—	88	24MHz/2.7 - 5.5V	-40°C - 85°C	100-LQFP	M30626FJPGP#U3C-ND	19.97	18.64	17.31
												M30626FJPGP#U5C-ND	19.01	17.74	16.48
												M30626FJPGP#U7C-ND	20.16	18.82	17.48
Flash	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I <sup>2</sup> C	—/11/—	114	24MHz/2.7 - 5.5V	-40°C - 85°C	128-LQFP	M30627FHGP#U3C-ND	18.90	17.64	16.38
		4K										M30627FHGP#U5C-ND	18.00	16.80	15.60
		4K										M30627FHGP#U7C-ND	18.00	16.80	15.60
		4K										M30627FHGP#U9C-ND	19.10	17.83	16.55
		4K										M30627FHGP#U9C-ND	18.20	16.99	15.77
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I <sup>2</sup> C	—/11/—	114	24MHz/2.7 - 5.5V	-40°C - 85°C	128-LQFP	M30627FJGP#U3C-ND	21.00	19.60	18.20
		4K										M30627FJGP#U5C-ND	20.00	18.67	17.33
		4K										M30627FJGP#U7C-ND	21.20	19.79	18.37
	256K	—	10K	26-ch. 10-bit	2-ch. 8-bit	4 USART, 3 I <sup>2</sup> C, 2 CAN	—/11/—	88	24MHz/3.0 - 5.5V	-40°C - 85°C	100-LQFP	M306N4FGGP#U3-ND	19.01	17.74	16.48
	384K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I <sup>2</sup> C, 2 CAN	—/11/—	88	24MHz/3.0 - 5.5V	-40°C - 85°C	100-LQFP	M306NKFHGP#U3-ND	22.01	20.54	19.08
	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 3 I <sup>2</sup> C, 2 CAN 7 USART, 3 I <sup>2</sup> C, 2 CAN	—/11/—	114	24MHz/3.0 - 5.5V	-40°C - 85°C	100-LQFP	M306NKFJGP#U3-ND	24.00	22.40	20.80
		4K										M306NMFJGP#U3-ND	25.01	23.34	21.68
	256K	—	20K	10-ch. 10-bit	2-ch. 8-bit	5 USART	—/11/—	124	20MHz/2.7 - 5.5V	-40°C - 85°C	100-LQFP	M30803FGGP#U3-ND	39.66	37.02	34.38
		4K										M30805FGGP#U5-ND	41.42	38.66	35.90
		8K										512K	26-ch. 10-bit	2-ch. 8-bit	UART, I <sup>2</sup> C, Smart Card, SSU*
											100-LQFP	R5F3640DDFB#U0-ND <b>NEW!</b>	10.22	9.18	8.14
											100-QFP	R5F3640DNFA#U0-ND <b>NEW!</b>	9.72	8.73	7.75
											100-LQFP	R5F3640DNFB#U0-ND <b>NEW!</b>	9.32	8.37	7.43

### M16C Tiny Series

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	24k	—	1k	12-ch. 10-bit	—	3 USART, 1 I <sup>2</sup> C	—/8/—	39	20MHz/2.7 - 5.5V	-20°C - 85°C	48-LQFP	M30260F3AGP#U3-ND	9.38	7.51	6.34
		4K										M30260F3AGP#U5A-ND	9.38	7.51	6.34
		4K										M30260F3AGP#U5A-ND	8.88	7.11	6.00
	48K	—	2K	12-ch. 10-bit	—	3 USART, 1 I <sup>2</sup> C	—/8/—	39	20MHz/2.7 - 5.5V	-40°C - 85°C	48-LQFP	M30260F6AGP#U3A-ND	8.48	7.62	6.76
		4K										M30260F6AGP#U5A-ND	9.66	7.73	6.53
		4K										M30260F6AGP#U7A-ND	8.70	7.82	6.93
	64K	—	2K	12-ch. 10-bit	—	3 USART, 1 I <sup>2</sup> C	—/8/—	39	20MHz/2.7 - 5.5V	-40°C - 85°C	48-LQFP	M30260F8AGP#U3A-ND	8.90	8.00	7.09
		4K										M30260F8AGP#U5A-ND	8.48	7.62	6.76
		4K										M30260F8AGP#U7A-ND	9.13	8.21	7.28
	24K	4K	1K	8-ch. 10-bit	—	3 USART, 1 I <sup>2</sup> C	—/8/—	38	20MHz/2.7 - 5.5V	-40°C - 85°C	48-LQFP	M30262F3GFP#U7-ND	9.66	7.73	6.53
	32K	—	1K	8-ch. 10-bit	—	3 USART, 1 I <sup>2</sup> C	—/8/—	38	20MHz/2.7 - 5.5V	-40°C - 85°C	48-LQFP	M30262F4GFP#U3-ND	9.66	7.73	6.53
	48K	—	2K	8-ch. 10-bit	—	3 USART, 1 I <sup>2</sup> C	—/8/—	38	20MHz/2.7 - 5.5V	-40°C - 85°C	48-LQFP	M30262F6GFP#U3-ND	8.48	7.62	6.76
		4K										M30262F6GFP#U5-ND	9.66	7.73	6.53
		4K										M30262F6GFP#U7-ND	8.70	7.82	6.93
	64K	—	2K	8-ch. 10-bit	—	3 USART, 1 I <sup>2</sup> C	—/8/—	38	20MHz/2.7 - 5.5V	-40°C - 85°C	48-LQFP	M30262F8GFP#U3-ND	8.88	8.00	7.09
24K	—	1K	10-ch. 10-bit	—	2 USART, 1 I <sup>2</sup> C	—/8/—	33	20MHz/2.7 - 5.5V	-20°C - 85°C	42-SSOP	M30263F3AFP#U5A-ND	8.88	7.11	6.00	
48K	—	2K	10-ch. 10-bit	—	2 USART, 1 I <sup>2</sup> C	—/8/—	33	20MHz/2.7 - 5.5V	-20°C - 85°C	42-SSOP	M30263F6AFP#U5A-ND	9.66	7.73	6.53	
64K	—	4K	10-ch. 10-bit	—	2 USART, 1 I <sup>2</sup> C	—/8/—	33	20MHz/2.7 - 5.5V	-20°C - 85°C	42-SSOP	M30263F8AFP#U5A-ND	8.48	7.62	6.76	
Flash	48K	—	4K	24-ch. 10-bit	—	5 USART, 2 I <sup>2</sup> C	—/9/—	71	20MHz/2.7 - 5.5V	-20°C - 85°C	80-LQFP	M30280F6HP#D5-ND	11.44	9.16	7.73
		4K										M30280F6HP#U3B-ND	9.95	8.96	7.95
		4K										M30280F6HP#U5-ND	9.53	8.58	7.61
		4K										M30280F6HP#U5B-ND	9.55	8.58	7.61
		4K										M30280F6HP#U7-ND	10.18	9.17	8.13
	64K	—	4K	24-ch. 10-bit	—	5 USART, 2 I <sup>2</sup> C	—/9/—	71	20MHz/2.7 - 5.5V	-40°C - 85°C	80-LQFP	M30280F6HP#U7-ND	10.20	9.17	8.13
		4K										M30280F6HP#U9-ND	9.75	8.78	7.79
		4K										M30280F6HP#U9B-ND	9.77	8.78	7.79
		4K										M30280F8HP#U3-ND	10.38	9.35	8.29
		4K										M30280F8HP#U5B-ND	10.40	9.35	8.29
	96K	—	8K	24-ch. 10-bit	—	5 USART, 2 I <sup>2</sup> C	—/9/—	71	20MHz/2.7 - 5.5V	-20°C - 85°C	80-LQFP	M30280F8HP#D5-ND	11.94	9.56	8.06
		4K										M30280F8HP#U5B-ND	9.97	8.96	7.95
		4K										M30280F8HP#U7-ND	10.60	9.54	8.46
		4K										M30280F8HP#U7B-ND	10.62	9.54	8.46
		4K										M30280F8HP#U9B-ND	10.18	9.17	8.13
128K	—	12K	24-ch. 10-bit	—	5 USART, 2 I <sup>2</sup> C	—/9/—	71	20MHz/2.7 - 5.5V	-40°C - 85°C	80-LQFP	M30280FAHP#U3B-ND	11.24	10.10	8.96	
	4K										M30280FAHP#D5-ND	12.96	10.37	8.75	
	4K										M30280FAHP#U5B-ND	10.82	9.72	8.62	
	4K										M30280FAHP#U7-ND	11.45	10.31	9.14	
	4K										M30280FAHP#U7B-ND	11.47	10.31	9.14	
48K	—	4K	13-ch. 10-bit	—	4 USART, 2 I <sup>2</sup> C	—/9/—	55	20MHz/2.7 - 5.5V	-40°C - 85°C	64-LQFP	M30280FCHP#U3B-ND	12.26	11.01	9.77	
	4K										M30280FCHP#U5B-ND	11.67	10.49	9.30	
	4K										M30280FCHP#U7B-ND	12.47	11.21	9.94	
	4K										M30280FCHP#U9B-ND	11.89	10.68	9.47	
	4K										M30281F6HP#U3-ND	9.53	8.58	7.61	
64K	—	4K	13-ch. 10-bit	—	4 USART, 2 I <sup>2</sup> C	—/9/—	55	20MHz/2.7 - 5.5V	-40°C - 85°C	64-LQFP	M30281F6HP#U3B-ND	9.55	8.58	7.61	
	4K										M30281F6HP#U5-ND	9.11	8.21	7.28	
	4K										M30281F6HP#U5B-ND	9.13	8.21	7.28	
	4K										M30281F6HP#U7-ND	9.75	8.78	7.79	
	4K										M30281F6HP#U7B-ND	9.77	8.78	7.79	
64K	—	4K	13-ch. 10-bit	—	4 USART, 2 I <sup>2</sup> C	—/9/—	55	20MHz/2.7 - 5.5V	-40°C - 85°C	64-LQFP	M30281F6HP#U9-ND	9.33	8.40	7.45	
	4K										M30281F6HP#U9B-ND	9.35	8.40	7.45	
	4K										M30281F8HP#U3B-ND	9.97	8.96	7.95	
	4K										M30281F8HP#D5-ND	11.44	9.16	7.73	

◆ RoHS Compliant \*SSU = SPI

(Continued)



**Microcontrollers**  
M16C Family M16C Tiny Series (Cont.)

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	64K	4K 4K	4K	13-ch. 10-bit	—	4 USART, 2 I2C	—/9/—	55	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	64-LQFP 64-LQFP 64-LQFP	M30281F8HP#U5B-ND M30281F8HP#U7B-ND M30281F8HP#U9B-ND	9.55	8.58	7.61
													10.20	9.17	8.13
													9.77	8.78	7.79
	96K	4K 4K	8K	13-ch. 10-bit	—	4 USART, 2 I2C	—/9/—	55	20MHz/2.7 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	64-LQFP 64-LQFP 64-LQFP	M30281FAHP#U3B-ND M30281FAHP#U7B-ND M30281FAHP#U9B-ND	10.80	9.72	8.82
													11.04	9.92	8.80
													10.62	9.54	8.46
	128K	4K 4K	12K	13-ch. 10-bit	—	4 USART, 2 I2C	—/9/—	55	20MHz/2.7 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	64-LQFP 64-LQFP 64-LQFP	M30281FCHP#U3B-ND M30281FCHP#U7B-ND M30281FCHP#U9B-ND	11.81	10.61	9.41
													12.02	10.80	9.58
													11.47	10.31	9.14
	96K	4K 4K	8K	27-ch. 10-bit	—	5 USART, 2 I2C, 1 CAN	—/9/—	71	20MHz/2.7 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	80-LQFP 80-LQFP 80-LQFP	M30290FAHP#U3A-ND M30290FAHP#U5A-ND M30290FAHP#U7A-ND	12.94	11.63	10.31
													13.13	11.82	10.49
													12.48	11.24	9.97
	128K	4K 4K	12K	27-ch. 10-bit	—	5 USART, 2 I2C, 1 CAN	—/9/—	71	20MHz/2.7 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	80-LQFP 80-LQFP 80-LQFP	M30290FCHP#U3A-ND M30290FCHP#U5A-ND M30290FCHP#U7A-ND	14.01	12.59	11.16
													13.36	12.00	10.64
													14.23	12.78	11.34
	96K	4K 4K	8K	16-ch. 10-bit	—	4 USART, 2 I2C, 1 CAN	—/9/—	55	20MHz/2.7 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	64-LQFP 64-LQFP 64-LQFP	M30291FAHP#U3A-ND M30291FAHP#U5A-ND M30291FAHP#U7A-ND	12.48	11.24	9.97
													11.85	10.67	9.46
													12.71	11.45	10.15
128K	4K 4K	12K	16-ch. 10-bit	—	4 USART, 2 I2C, 1 CAN	—/9/—	55	20MHz/2.7 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 125°C	64-LQFP 64-LQFP 64-LQFP	M30291FAHP#U3A-ND M30291FCHP#U3A-ND M30291FCHP#U7A-ND	12.09	10.86	9.63	
												15.20	14.19	13.17	
												13.58	12.20	10.82	
128K	4K 4K	12K	16-ch. 10-bit	—	4 USART, 2 I2C, 1 CAN	—/9/—	55	20MHz/2.7 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	64-LQFP 64-LQFP 64-LQFP	M30291FCHP#U3A-ND M30291FCHP#U5A-ND M30291FCHP#U7A-ND	12.91	11.63	10.31	
												13.81	12.41	11.00	
												13.16	11.82	10.49	

C

**M32 Series**

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each														
													1	25	100												
ROMless	—	—	8K	10-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C	—/11/—	48	32MHz/3.0 - 5.5V	-20°C - 85°C -20°C - 85°C -20°C - 85°C	100-QFP 100-QFP 100-LQFP	M30800SAPP#U5-ND M30800SAPP-BL#U5-ND M30800SAGP#U5-ND	9.57	8.60	7.63												
													10.02	9.00	7.98												
													8.90	8.00	7.09												
													9.35	8.40	7.45												
Flash	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C, 1 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	100-QFP 100-QFP 100-LQFP	M30833FJFP#U3-ND M30833FJFP#U5-ND M30833FJGP#U3-ND	40.19	37.51	34.83												
													38.27	35.72	33.17												
				34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C, 1 CAN	—/11/—	124	32MHz/3.0 - 5.5V	144-LQFP 144-LQFP	M30833FJGP#U5-ND M30833FJGP#U5-ND	39.95	37.29	34.62													
												38.00	35.47	32.93													
ROMless	—	—	10K	26-ch. 10-bit 34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C, 1 CAN	—/11/—	88 124	32MHz/3.0 - 5.5V	-20°C - 85°C -20°C - 85°C	100-LQFP 144-LQFP	M30840SGFP#U5-ND M30842SGFP#U5-ND	8.87	8.28	7.69												
													10.88	9.80	8.59												
													384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C, 1 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	100-QFP 100-QFP 100-LQFP	M30843FHFP#U3-ND M30843FHFP#U5-ND M30843FHGP#U3-ND	24.86	23.20	21.55
																									22.61	21.10	19.60
24.20	22.59	20.97																									
22.01	20.54	19.08																									
512K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C, 1 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	100-LQFP 100-LQFP 100-LQFP	M30843FHGP#U5-ND M30843FHGP#U5-ND M30843FHGP#U5-ND	22.01	20.54	19.08													
												22.01	20.54	19.08													
												24.60	22.96	21.32													
												26.40	24.64	22.88													
320K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C, 1 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	100-LQFP 100-LQFP 100-LQFP	M30843FJFP#U5-ND M30843FJFP#U5-ND M30843FJFP#U5-ND	23.10	21.56	20.02													
												21.00	19.60	18.20													
												27.50	25.67	23.83													
												25.01	23.34	21.68													
384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C, 1 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	144-LQFP 144-LQFP 144-LQFP	M30845FHGP#U3-ND M30845FHGP#U5-ND M30845FHGP#U5-ND	27.50	25.67	23.83													
												25.01	23.34	21.68													
												29.70	27.72	25.74													
												27.00	25.20	23.40													
512K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C, 1 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	144-LQFP 144-LQFP 144-LQFP	M30845FJGP#U3-ND M30845FJGP#U5-ND M30845FJGP#U5-ND	26.40	24.64	22.88													
												24.00	22.40	20.80													
												24.00	22.40	20.80													
												24.00	22.40	20.80													
320K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C, 1 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	100-LQFP 100-LQFP 100-LQFP	M30845FWGP#U3-ND M30845FWGP#U5-ND M30845FWGP#U5-ND	23.10	21.56	20.02													
												21.00	19.60	18.20													
												27.50	25.67	23.83													
												25.01	23.34	21.68													
384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	100-QFP 100-QFP 100-LQFP	M30853FHFP#U5-ND M30853FHFP#U5-ND M30853FHFP#U5-ND	23.60	22.03	20.45													
												25.87	24.26	22.51													
												23.60	22.03	20.45													
												25.31	23.62	21.94													
512K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	100-LQFP 100-LQFP 100-LQFP	M30853FHGP#U3-ND M30853FHGP#U5-ND M30853FHGP#U5-ND	23.00	21.47	19.93													
												25.31	23.62	21.94													
												23.00	21.47	19.93													
												25.31	23.62	21.94													
320K	—	24K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	100-QFP 100-LQFP 100-LQFP	M30853FJFP#U3-ND M30853FJFP#U5-ND M30853FJGP#U3-ND	28.17	26.30	24.42													
												25.61	23.90	22.20													
												27.50	25.67	23.83													
												25.01	23.34	21.68													
384K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C, 2 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	144-LQFP 144-LQFP 144-LQFP	M30855FHGP#U3-ND M30855FHGP#U5-ND M30855FHGP#U5-ND	28.61	26.70	24.80													
												26.00	24.27	22.53													
												34.64	32.33	30.02													
												33.00	30.80	28.60													
512K	—	24K	34-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I2C, 2 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C -40°C - 85°C	144-LQFP 144-LQFP 144-LQFP	M30855FJGP#U3-ND M30855FJGP#U5-ND M30855FJGP#U5-ND	30.80	28.75	26.69													
												28.01	26.14	24.28													
												31.91	29.78	27.66													
												29.00	27.07	25.13													
384K	—	24K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I2C, 1 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C	100-LQFP 100-LQFP	M30873FHAGP#U3-ND M30873FHAGP#U5-ND	20.21	18.86	17.52													
												18.36	17.14	15.92													
			34-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I2C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	100-LQFP 100-LQFP	M30873FHAGP#U3-ND M30873FHAGP#U5-ND	19.61	18.30	17.00														
											17.82	16.64	15.45														
512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I2C, 1 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C	100-LQFP 100-LQFP	M30873FHAGP#U3-ND M30873FHAGP#U5-ND	20.81	19.42	18.04													
												18.90	17.64	16.38													
			34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I2C, 1 CAN	—/11/—	124	32MHz/3.0 - 5.5V	144-LQFP 144-LQFP	M30875FHAGP#U3-ND M30875FHAGP#U5-ND	22.02	20.56	19.09														
											20.18	18.83	17.49														
512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I2C, 1 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C	100-LQFP 100-LQFP	M30875FHAGP#U3-ND M30875FHAGP#U5-ND	21.42	20.00	18.57													
												19.64	18.33	17.02													
			34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I2C, 2 CAN	—/11/—	124	32MHz/3.0 - 5.5V	144-LQFP 144-LQFP	M30875FHAGP#U3-ND M30875FHAGP#U5-ND	22.62	21.12	19.61														
											20.72	19.34	17.96														
512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I2C, 1 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -40°C - 85°C	100-LQFP 100-LQFP	M30876FJAGP#U3-ND M30876FJAGP#U5-ND	22.40	20.91	19.41													
												20.36	19.00	17.65													

◆ RoHS Compliant \*SSU = SPI

(Continued)

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Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	512K	—	31K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I <sup>2</sup> C	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30876FJBG#PU3-ND M30876FJBG#PU5-ND	21.80	20.35	18.89
						6 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30876FJBG#PU3-ND M30876FJBG#PU5-ND	23.00	21.47	19.93
						7 USART, IrDA, 5 I <sup>2</sup> C, 1 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP	M30878FJAG#PU3-ND M30878FJAG#PU5-ND	24.23	22.61	21.00
						7 USART, IrDA, 5 I <sup>2</sup> C	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP	M30878FJAG#PU3-ND M30878FJAG#PU5-ND	22.19	20.71	19.23
						7 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP	M30878FJAG#PU3-ND M30878FJAG#PU5-ND	23.81	22.22	20.64
						7 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP	M30878FJAG#PU3-ND M30878FJAG#PU5-ND	21.65	20.21	18.76
	768K	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I <sup>2</sup> C, 1 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879FKAG#PU3-ND M30879FKAG#PU5-ND	25.14	23.47	21.79
						6 USART, IrDA, 5 I <sup>2</sup> C	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879FKAG#PU3-ND M30879FKAG#PU5-ND	24.09	22.49	20.88
						6 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879FKAG#PU3-ND M30879FKAG#PU5-ND	21.83	20.37	18.92
						6 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879FKAG#PU3-ND M30879FKAG#PU5-ND	25.20	23.52	21.84
						6 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879FKAG#PU3-ND M30879FKAG#PU5-ND	22.91	21.38	19.86
						6 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879FKAG#PU3-ND M30879FKAG#PU5-ND	26.82	25.04	23.25
	1M	—	48K	26-ch. 10-bit	2-ch. 8-bit	6 USART, IrDA, 5 I <sup>2</sup> C, 1 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879LAG#PU3-ND M30879LAG#PU5-ND	24.38	22.75	21.13
						6 USART, IrDA, 5 I <sup>2</sup> C, 1 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879LAG#PU3-ND M30879LAG#PU5-ND	26.81	25.02	23.24
						6 USART, IrDA, 5 I <sup>2</sup> C	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879LBF#PU3-ND M30879LBF#PU5-ND	24.36	22.74	21.12
						6 USART, IrDA, 5 I <sup>2</sup> C	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879LBF#PU3-ND M30879LBF#PU5-ND	25.76	24.04	22.33
						6 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879LBF#PU3-ND M30879LBF#PU5-ND	23.42	21.86	20.30
						6 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879LBF#PU3-ND M30879LBF#PU5-ND	26.21	24.46	22.72
						6 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879LBF#PU3-ND M30879LBF#PU5-ND	23.21	22.24	20.65
						6 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879LFF#PU3-ND M30879LFF#PU5-ND	27.77	25.92	24.07
						6 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879LFF#PU3-ND M30879LFF#PU5-ND	25.28	23.59	21.91
						6 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879FLG#PU3-ND M30879FLG#PU5-ND	27.41	25.58	23.76
						6 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	88	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	100-LQFP 100-LQFP	M30879FLG#PU3-ND M30879FLG#PU5-ND	24.90	23.24	21.58
						768K	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I <sup>2</sup> C, 1 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C
7 USART, IrDA, 5 I <sup>2</sup> C	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP						M30878FKAG#PU3-ND M30878FKAG#PU5-ND	24.77	23.12	21.47	
7 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP						M30878FKAG#PU3-ND M30878FKAG#PU5-ND	25.14	23.47	21.79	
7 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP						M30878FKAG#PU3-ND M30878FKAG#PU5-ND	22.86	21.34	19.82	
7 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP						M30878FKAG#PU3-ND M30878FKAG#PU5-ND	27.20	25.39	23.57	
7 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP						M30878FKAG#PU3-ND M30878FKAG#PU5-ND	28.80	26.88	24.96	
1M	—	48K	34-ch. 10-bit	2-ch. 8-bit	7 USART, IrDA, 5 I <sup>2</sup> C, 1 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP	M30878FLG#PU3-ND M30878FLG#PU5-ND	26.18	24.43	22.89	
					7 USART, IrDA, 5 I <sup>2</sup> C, 1 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP	M30878FLG#PU3-ND M30878FLG#PU5-ND	28.02	26.16	24.29	
					7 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP	M30878FLG#PU3-ND M30878FLG#PU5-ND	25.64	23.93	22.22	
					7 USART, IrDA, 5 I <sup>2</sup> C, 2 CAN	—/11/—	124	32MHz/3.0 - 5.5V	-40°C - 85°C -20°C - 85°C	144-LQFP 144-LQFP	M30878FLG#PU3-ND M30878FLG#PU5-ND	29.22	27.28	25.33	
320K	—	18K	26-ch. 10-bit	2-ch. 8-bit	5 USART, 5 I <sup>2</sup> C, 3 CAN	—/11/—	88	32MHz/4.2 - 5.5V	-40°C - 85°C	100-LQFP	M30880FVTG#PU0-ND	38.28	35.73	33.18	

R8C Tiny Series

The R8C 16-bit microcontrollers are small in size, yet big in performance and value. They excel for 8-bit embedded system applications that need low-cost devices and deliver high performance, yet save space with small, low-pin count packages. These microcontrollers for general purpose applications deliver up to 20MHz speed, up to 96K of on-chip flash memory, offer versatile peripherals, and are packaged with 80 pins or less. Based on the MC16 family of 16-bit microcontrollers, the R8C Tiny inherits the same features of high performance, ROM code efficiency, low power consumption, and low noise, while its instruction compatibility allows the use of existing M16C family software resources.

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	Price Each		
													1	25	100
Flash	4K	—	375	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	20-SDIP 20-LSSOP 20-LSSOP	R5F211A1DD#U0-ND R5F211A1DSP#U0-ND R5F211A1SP#U0-ND	3.71	2.97	2.31
						2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	20-SDIP 20-LSSOP 20-LSSOP	R5F211A2DD#U0-ND R5F211A2DSP#U0-ND R5F211A2SP#U0-ND	3.98	3.19	2.48
						2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	28-HWQFN 20-LSSOP 20-LSSOP	R5F211A2NP#U0-ND R5F211A2SP#U0-ND R5F211A2SP#U0-ND	3.71	2.97	2.31
	8K	—	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	20-SDIP 20-LSSOP 20-LSSOP	R5F211A3DD#U0-ND R5F211A3DSP#U0-ND R5F211A3SP#U0-ND	4.14	3.32	2.58
						2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	20-SDIP 20-LSSOP 20-LSSOP	R5F211A3DD#U0-ND R5F211A3DSP#U0-ND R5F211A3SP#U0-ND	3.42	2.74	2.13
						2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	28-HWQFN 20-LSSOP 20-LSSOP	R5F211A3NP#U0-ND R5F211A3SP#U0-ND R5F211A3SP#U0-ND	4.30	3.44	2.68
	12K	—	750	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	20-SDIP 20-LSSOP 20-LSSOP	R5F211A4DD#U0-ND R5F211A4DSP#U0-ND R5F211A4SP#U0-ND	3.98	3.19	2.48
						2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	20-SDIP 20-LSSOP 20-LSSOP	R5F211A4DD#U0-ND R5F211A4DSP#U0-ND R5F211A4SP#U0-ND	4.43	3.55	2.76
						2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	28-HWQFN 20-LSSOP 20-LSSOP	R5F211A4NP#U0-ND R5F211A4SP#U0-ND R5F211A4SP#U0-ND	3.71	2.97	2.31
	16K	—	1K	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	20-SDIP 20-LSSOP 20-LSSOP	R5F211A5DD#U0-ND R5F211A5DSP#U0-ND R5F211A5SP#U0-ND	4.57	3.66	2.85
						2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	20-SDIP 20-LSSOP 20-LSSOP	R5F211A5DD#U0-ND R5F211A5DSP#U0-ND R5F211A5SP#U0-ND	4.30	3.44	2.68
						2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	28-HWQFN 20-LSSOP 20-LSSOP	R5F211A5NP#U0-ND R5F211A5SP#U0-ND R5F211A5SP#U0-ND	4.70	3.77	2.93
	4K	2K	375	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	20-SDIP 20-LSSOP 20-LSSOP	R5F211B1DD#U0-ND R5F211B1DSP#U0-ND R5F211B1SP#U0-ND	3.98	3.19	2.48
						2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	20-SDIP 20-LSSOP 20-LSSOP	R5F211B1DD#U0-ND R5F211B1DSP#U0-ND R5F211B1SP#U0-ND	3.87	3.10	2.41
						2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	28-HWQFN 20-LSSOP 20-LSSOP	R5F211B1NP#U0-ND R5F211B1SP#U0-ND R5F211B1SP#U0-ND	3.58	2.87	2.23
	8K	2K	500	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	20-SDIP 20-LSSOP 20-LSSOP	R5F211B2DD#U0-ND R5F211B2DSP#U0-ND R5F211B2SP#U0-ND	4.43	3.55	2.76
						2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	20-SDIP 20-LSSOP 20-LSSOP	R5F211B2DD#U0-ND R5F211B2DSP#U0-ND R5F211B2SP#U0-ND	4.16	3.33	2.59
						2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	28-HWQFN 20-LSSOP 20-LSSOP	R5F211B2NP#U0-ND R5F211B2SP#U0-ND R5F211B2SP#U0-ND	4.57	3.66	2.85
	12K	2K	750	4-ch. 10-bit	—	2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	20-SDIP 20-LSSOP 20-LSSOP	R5F211B3DD#U0-ND R5F211B3DSP#U0-ND R5F211B3SP#U0-ND	3.87	3.10	2.41
						2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	20-SDIP 20-LSSOP 20-LSSOP	R5F211B3DD#U0-ND R5F211B3DSP#U0-ND R5F211B3SP#U0-ND	4.70	3.77	2.93
						2 USART, 1 SSU*, 1 I <sup>2</sup> C	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C -20°C - 85°C	28-HWQFN 20-LSSOP 20-LSSOP	R5F211B3NP#U0-ND R5F211B3SP#U0-ND R5F211B3SP#U0-ND	4.43	3.55	2.76
	16K	2K	1K	4-ch. 10-bit	—										

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/ Supply Voltage	Temperature	Package	Digi-Key Part No.	1	25	100	
Flash	8K	4K	500	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 - 5.5V	-40°C - 85°C -20°C - 85°C	32-LQFP	R5F21132DFP#UO-ND R5F21132FP#UO-ND	5.15 4.86	4.13 3.89	3.21 3.03	
	12K	4K	750	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 - 5.5V	-40°C - 85°C -20°C - 85°C	32-LQFP	R5F21133DFP#UO-ND R5F21133FP#UO-ND	4.82 5.13	3.86 4.11	3.26 3.20	
	16K	4K	1K	12-ch. 10-bit	—	2 USART	3/1/—	24	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C	32-LQFP	R5F21134DFP#UO-ND R5F21134FP#UO-ND	5.42 5.10	4.34 4.08	3.38 3.45	
	8K	—	500	4-ch. 10-bit	—	1 USART, 1 SSU*	3/1/—	15	20MHz/2.7 - 5.5V	-40°C - 85°C -20°C - 85°C	20-LSSOP 20-SSOP	R5F21142DSP#UO-ND R5F21142SP#UO-ND	3.98 3.71	3.19 2.97	2.48 2.31	
	12K	—	750	4-ch. 10-bit	—	1 USART, 1 SSU*	3/1/—	15	20MHz/2.7 - 5.5V	-40°C - 85°C -20°C - 85°C	20-LSSOP 20-SSOP	R5F21143DSP#UO-ND R5F21143SP#UO-ND	4.30 3.98	3.44 3.19	2.68 2.48	
	16K	—	1K	4-ch. 10-bit	—	1 USART, 1 SSU*	3/1/—	15	20MHz/2.7 - 5.5V	-40°C - 85°C -20°C - 85°C	20-LSSOP 20-SSOP	R5F21144DSP#UO-ND R5F21144SP#UO-ND	4.57 4.30	3.66 3.44	2.85 2.68	
	8K	2K	500	4-ch. 10-bit	—	1 USART, 1 SSU*	2/1/—	15	20MHz/2.7 - 5.5V	-40°C - 85°C -20°C - 85°C	20-SSOP 20-SSOP	R5F21152DSP#UO-ND R5F21152SP#UO-ND	4.43 4.14	3.55 3.32	2.76 2.58	
	12K	2K	750	4-ch. 10-bit	—	1 USART, 1 SSU*	2/1/—	15	20MHz/2.7 - 5.5V	-40°C - 85°C -20°C - 85°C	20-LSSOP 20-LSSOP	R5F21153DSP#UO-ND R5F21153SP#UO-ND	4.70 4.10	3.77 3.77	2.93 2.93	
	16K	2K	1K	4-ch. 10-bit	—	1 USART, 1 SSU*	2/1/—	15	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C	20-SSOP 20-LSSOP	R5F21154SP#UO-ND R5F21154DSP#UO-ND	4.70 5.02	3.77 4.02	2.93 3.13	
	8K	—	500	4-ch. 10-bit	—	1 USART, 1 I2C	2/1/—	15	20MHz/2.7 - 5.5V	-40°C - 85°C -20°C - 85°C	20-LSSOP 20-SSOP	R5F21162DSP#UO-ND R5F21162SP#UO-ND	4.14 3.87	3.32 3.10	2.58 2.41	
	12K	—	750	4-ch. 10-bit	—	1 USART, 1 I2C	2/1/—	15	20MHz/2.7 - 5.5V	-40°C - 85°C -20°C - 85°C	20-LSSOP 20-SSOP	R5F21163DSP#UO-ND R5F21163SP#UO-ND	4.43 4.14	3.55 3.32	2.76 2.58	
	16K	—	1K	4-ch. 10-bit	—	1 USART, 1 I2C	2/1/—	15	20MHz/2.7 - 5.5V	-40°C - 85°C -20°C - 85°C	20-LSSOP 20-SSOP	R5F21164DSP#UO-ND R5F21164SP#UO-ND	4.70 4.43	3.77 3.55	2.93 2.76	
	8K	2K	500	4-ch. 10-bit	—	1 USART, 1 I2C	2/1/—	15	20MHz/2.7 - 5.5V	-20°C - 85°C	20-SSOP	R5F21172SP#UO-ND	4.30	3.44	2.68	
	12K	2K	750	4-ch. 10-bit	—	1 USART, 1 I2C	2/1/—	15	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C	20-SSOP 20-LSSOP	R5F21173SP#UO-ND R5F21173SP#UO-ND	4.57 4.86	3.66 3.89	2.85 3.03	
	16K	2K	1K	4-ch. 10-bit	—	1 USART, 1 I2C	2/1/—	15	20MHz/2.7 - 5.5V	-40°C - 85°C	20-LSSOP	R5F21174DSP#UO-ND	5.13	4.11	3.20	
	4K	—	375	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C	20-SDIP 20-LSSOP	R5F21181DD#UO-ND R5F21181DS#UO-ND	3.58 3.44	2.87 2.76	2.23 2.15	
										-20°C - 85°C	20-SSOP	R5F21181SP#UO-ND	2.99	2.40	1.87	
	8K	—	500	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C	20-SDIP 20-LSSOP	R5F21182DD#UO-ND R5F21182DS#UO-ND	3.87 3.60	3.10 2.88	2.41 2.24	
										-20°C - 85°C	28-HWQFN	R5F21182NP#UO-ND	3.98	3.19	2.48	
										-20°C - 85°C	20-SSOP	R5F21182SP#UO-ND	3.44	2.76	2.15	
	12K	—	750	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C	20-SDIP 20-LSSOP	R5F21183DD#UO-ND R5F21183DS#UO-ND	4.14 3.87	3.32 3.10	2.58 2.41	
										-20°C - 85°C	28-HWQFN	R5F21183NP#UO-ND	4.30	3.44	2.68	
										-20°C - 85°C	20-SSOP	R5F21183SP#UO-ND	3.58	2.87	2.23	
	16K	—	1K	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C	20-SDIP 20-LSSOP	R5F21184DD#UO-ND R5F21184DS#UO-ND	4.43 4.16	3.55 3.33	2.76 2.59	
										-20°C - 85°C	28-HWQFN	R5F21184NP#UO-ND	4.57	3.66	2.85	
										-20°C - 85°C	20-SSOP	R5F21184SP#UO-ND	3.87	3.10	2.41	
	4K	2K	375	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C	20-SDIP 20-SSOP	R5F21191DD#UO-ND R5F21191DS#UO-ND	3.98 3.42	3.19 2.74	2.48 2.13	
										-40°C - 85°C	20-LSSOP	R5F21191SP#UO-ND	3.71	2.97	2.31	
	8K	2K	500	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C	20-SDIP 20-LSSOP	R5F21192DD#UO-ND R5F21192DS#UO-ND	4.30 4.03	3.44 3.23	2.68 2.51	
										-20°C - 85°C	28-HWQFN	R5F21192NP#UO-ND	4.43	3.55	2.76	
										-20°C - 85°C	20-SSOP	R5F21192SP#UO-ND	3.71	2.97	2.31	
	12K	2K	750	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C	20-SDIP 20-LSSOP	R5F21193DD#UO-ND R5F21193DS#UO-ND	4.57 4.30	3.66 3.44	2.85 2.68	
										-20°C - 85°C	28-HWQFN	R5F21193NP#UO-ND	4.70	3.77	2.93	
										-20°C - 85°C	20-SSOP	R5F21193SP#UO-ND	3.98	3.19	2.48	
	16K	2K	1K	4-ch. Comparator	—	2 USART	2/1/—	16	20MHz/2.7 - 5.5V	-20°C - 85°C -40°C - 85°C	20-SDIP 20-LSSOP	R5F21194DD#UO-ND R5F21194DS#UO-ND	4.86 4.59	3.89 3.68	3.03 2.86	
										-20°C - 85°C	28-HWQFN	R5F21194NP#UO-ND	5.02	4.02	3.13	
										-20°C - 85°C	20-LSSOP	R5F21194SP#UO-ND	4.30	3.44	2.68	
	96K	—	7K	12-ch. 10-bit	2-ch. 8-bit	—	3 USART, 1 I2C	3/4/—	57	20MHz/2.2 - 5.5V	-20°C - 85°C	64-LQFP	R5F212AASDFA#UO-ND R5F212AASDFP#UO-ND	6.94 6.94	5.56 5.56	4.69 4.69
										-20°C - 85°C	64-LQFP	R5F212AASNFP#UO-ND	6.66	5.33	4.50	
	128K	—	7.5K	12-ch. 10-bit	2-ch. 8-bit	—	3 USART, 1 I2C	3/4/—	57	20MHz/2.2 - 5.5V	-20°C - 85°C	64-LQFP	R5F212ACSNFP#UO-ND	7.20	5.76	4.86
									-20°C - 85°C	64-TLGA	R5F212ACSNLGA#UO-ND <b>NEW!</b>	8.80	7.04	5.94		
48K	—	2.5K	12-ch. 10-bit	2-ch. 8-bit	—	3 USART, 1 SSU*, 1 I2C	3/4/—	57	20MHz/2.2 - 5.5V	-40°C - 85°C	64-LQFP	R5F212A7SDFP#UO-ND	6.14	4.92	4.15	
									-20°C - 85°C	64-LQFP	R5F212A7SNFP#UO-ND	5.86	4.69	3.96		
									-20°C - 85°C	64-LQFP	R5F212A7SNFA#UO-ND	5.86	4.69	3.96		
64K	—	3K	12-ch. 10-bit	2-ch. 8-bit	—	3 USART, 1 SSU*, 1 I2C	3/2/—	57	20MHz/2.2 - 5.5V	-20°C - 85°C	64-LQFP	R5F212A8SNFP#UO-ND	6.14	4.92	4.15	
									-20°C - 85°C	64-LQFP	R5F212A8SNFA#UO-ND	6.14	4.92	4.15		
96K	1K	7K	12-ch. 10-bit	2-ch. 8-bit	—	UART, SSU, SIO, I2C	3/4/—	55	20MHz/2.2 - 5.5V	-40°C - 85°C	64-LQFP	R5F212BASDFA#UO-ND <b>NEW!</b>	7.34	5.88	4.96	
	2K	7K	12-ch. 10-bit	2-ch. 8-bit	—	3 USART, I2C	3/4/—	57	20MHz/2.2 - 5.5V	-20°C - 85°C	64-LQFP	R5F212BASNFA#UO-ND	7.06	5.65	4.77	
128K	1K	7.5K	12-ch. 10-bit	2-ch. 8-bit	—	UART, SSU, SIO, I2C	3/4/—	55	20MHz/2.2 - 5.5V	-40°C - 85°C	64-LQFP	R5F212BCSDFA#UO-ND <b>NEW!</b>	7.86	6.29	5.31	
									-20°C - 85°C	64-LQFP	R5F212BCSDFP#UO-ND <b>NEW!</b>	7.86	6.29	5.31		
									-20°C - 85°C	64-LQFP	R5F212BCSNFA#UO-ND <b>NEW!</b>	7.60	6.08	5.13		
	2K	7.5K	12-ch. 10-bit	2-ch. 8-bit	—	3 USART, 1 I2C	3/4/—	57	20MHz/2.2 - 5.5V	-20°C - 85°C	64-LQFP	R5F212BCSNFP#UO-ND	7.60	6.08	5.13	
48K	1K	2.5K	12-ch. 10-bit	2-ch. 8-bit	—	UART, SSU, SIO, I2C	3/4/—	55	20MHz/2.2 - 5.5V	-40°C - 85°C	64-LQFP	R5F212B7SDFP#UO-ND <b>NEW!</b>	6.54	5.24	4.42	
									-20°C - 85°C	64-LQFP	R5F212B7SDFP#UO-ND <b>NEW!</b>	6.54	5.24	4.42		
									-20°C - 85°C	64-LQFP	R5F212B7SNFA#UO-ND <b>NEW!</b>	6.26	5.01	4.23		
	2K	2.5K	12-ch. 10-bit	2-ch. 8-bit	—	3 USART, 1 SSU*, 1 I2C	3/2/—	57	20MHz/2.2 - 5.5V	-20°C - 85°C	64-LQFP	R5F212B7SNFP#UO-ND	6.26	5.01	4.23	
64K	1K	3K	12-ch. 10-bit	2-ch. 8-bit	—	UART, SSU, SIO, I2C	3/4/—	55	20MHz/2.2 - 5.5V	-40°C - 85°C	64-LQFP	R5F212B8SDFP#UO-ND <b>NEW!</b>	6.80	5.44	4.59	
	2K	3K	12-ch. 10-bit	2-ch. 8-bit	—	3 USART, 1 SSU*, 1 I2C	3/2/—	57	20MHz/2.2 - 5.5V	-20°C - 85°C	64-LQFP	R5F212B8SNFA#UO-ND <b>NEW!</b>	6.54	5.24	4.42	
	1K	3K	12-ch. 10-bit	2-ch. 8-bit	—	UART, SSU, SIO, I2C	3/4/—	55	20MHz/2.2 - 5.5V	-20°C - 85°C	64-LQFP	R5F212B8SNFP#UO-ND	6.54	5.24	4.42	
	2K	3K	12-ch. 10-bit	2-ch. 8-bit	—	3 USART, 1 SSU*, 1 I2C	3/2/—	57	20MHz/2.2 - 5.5V	-20°C - 85°C	64-LQFP	R5F212B8SNFP#UO-ND	6.54	5.24	4.42	
96K	2K	7K	20-ch. 10-bit	2-ch. 8-bit	—	3 USART, 1 SSU*, 1 I2C	3/4/—	73	20MHz/2.2 - 5.5V	-40°C - 85°C	80-LQFP	R5F212DASDFA#UO-ND	7.86	6.29	5.31	
128K	2K	7.5K	20-ch. 10-bit	2-ch. 8-bit	—	3 USART, I2C	3/4/—	73	20MHz/2.2 - 5.5V	-20°C - 85°C	80-LQFP	R5F212DCSNFP#UO-ND	8.14	6.52	5.50	
48K	2K	2.5K	20-ch. 10-bit	2-ch. 8-bit	—	3 USART, 1 SSU*, 1 I2C	3/4/—	73	20MHz/2.2 - 5.5V	-20°C - 85°C	80-LQFP	R5F212D7SNFP#UO-ND	6.80	5.44	4.59	
64K	2K	3K	20-ch. 10-bit	2-ch. 8-bit	—	3 USART, 1 SSU*, 1 I2C	3/4/—	73	20MHz/2.2 - 5.5V	-20°C - 85°C	80-LQFP	R5F212D8SNFP#UO-ND	7.06	5.65	4.77	
16K	—	512	—	—	—	2 UART	3/1/—	27	8MHz/2.7 - 5.5V	-20°C - 85°C	32-LQFP	R5F212G4SNFP#UO-ND	4.50	3.60	2.80	
24K	—	1K	—	—	—	UART	3/1/—	27	8MHz/2.7 - 5.5V	-20°C - 85°C	32-LQFP	R5F212G5SNFP#UO-ND <b>NEW!</b>	4.79	4.26	3.20	
32K	—	1K	—	—	—	2 UART	3/1/—	27	8MHz/2.7 - 5.5V	-20°C - 85°C	32-LQFP	R5F212G6SNFP#UO-ND	5.11	4.09	3.18</	

C

Memory Type	ROM Bytes	Data Flash Bytes	RAM Bytes	A/D	D/A	Serial Communication	Timers 8/16/32	GPIO	Operating Frequency/Supply Voltage	Temperature	Package	Digi-Key Part No.	1	Price Each 25	100
Flash	8K	1K	1K	9-ch. 10-bit	—	UART, SSI	2/3/—	25	20MHz/3.0 - 5.5V	-20°C - 85°C	32-LQFP	R5F212L2SNFP#U0-ND <b>NEW!</b>	5.24	4.66	3.50
	16K	1K	1.5K	9-ch. 10-bit	—	UART, SSI	2/3/—	25	20MHz/3.0 - 5.5V	-20°C - 85°C	32-LQFP	R5F212L4SNFP#U0-ND <b>NEW!</b>	5.56	4.94	3.71
	32K	—	2K	12-ch. 10-bit	—	UART, SIO, I2C	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21206JFP#U1-ND <b>NEW!</b>	5.34	4.28	3.61
	48K	—	2.5K	12-ch. 10-bit	—	UART, SIO, I2C	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21206KFP#U1-ND <b>NEW!</b>	5.84	4.68	3.95
									16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21207JFP#U1-ND <b>NEW!</b>	5.84	4.68	3.95
	64K	—	3K	12-ch. 10-bit	—	UART, SIO, I2C	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21207KFP#U1-ND <b>NEW!</b>	6.34	5.08	4.28
									16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21208JFP#U1-ND <b>NEW!</b>	6.34	5.08	4.28
	32K	1K	2K	12-ch. 10-bit	—	UART, SIO, I2C	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21216JFP#U1-ND <b>NEW!</b>	6.34	5.08	4.28
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21216KFP#U1-ND <b>NEW!</b>	6.86	5.49	4.64
	48K	1K	2.5K	12-ch. 10-bit	—	UART, SIO, I2C	3/2/—	41	16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21217KFP#U1-ND <b>NEW!</b>	7.36	5.89	4.97
	64K	1K	3K	12-ch. 10-bit	—	UART, SIO, I2C	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21218JFP#U1-ND <b>NEW!</b>	7.36	5.89	4.97
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21218KFP#U1-ND <b>NEW!</b>	7.86	6.29	5.31
	96K	—	5K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F2122AJFP#U0-ND <b>NEW!</b>	7.52	6.02	5.08
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F2122AKFP#U0-ND <b>NEW!</b>	8.00	6.40	5.40
	128K	—	6K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F2122CJFP#U0-ND <b>NEW!</b>	8.00	6.40	5.40
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F2122CKFP#U0-ND <b>NEW!</b>	8.48	6.79	5.73
	32K	—	2K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21226DFP#U0-ND <b>NEW!</b>	6.14	4.92	4.15
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21226JFP#U1-ND <b>NEW!</b>	6.34	5.08	4.28
	48K	—	2.5K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21226KFP#U1-ND <b>NEW!</b>	6.86	5.49	4.64
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21227DFP#U0-ND <b>NEW!</b>	6.40	5.12	4.32
	64K	—	3K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21227JFP#U1-ND <b>NEW!</b>	6.86	5.49	4.64
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21227KFP#U1-ND <b>NEW!</b>	7.36	5.89	4.97
	96K	1K	5K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21228DFP#U0-ND <b>NEW!</b>	6.66	5.33	4.50
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21228JFP#U1-ND <b>NEW!</b>	7.36	5.89	4.97
	128K	1K	6K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21228KFP#U1-ND <b>NEW!</b>	7.86	6.29	5.31
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F2123AJFP#U0-ND <b>NEW!</b>	8.48	6.79	5.73
	32K	1K	2K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F2123AKFP#U0-ND <b>NEW!</b>	8.96	7.17	6.05
									16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F2123CJFP#U0-ND <b>NEW!</b>	8.96	7.17	6.05
	48K	1K	2.5K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F2123CKFP#U0-ND <b>NEW!</b>	9.46	7.57	6.39
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F2123DFP#U0-ND <b>NEW!</b>	6.54	5.24	4.42
	64K	1K	3K	12-ch. 10-bit	—	UART, SIO, I2C, CAN	3/2/—	41	20MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21236JFP#U1-ND <b>NEW!</b>	7.36	5.89	4.97
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21236KFP#U1-ND <b>NEW!</b>	7.86	6.29	5.31
	8K	—	500	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21237DFP#U0-ND <b>NEW!</b>	6.80	5.44	4.59
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21237JFP#U1-ND <b>NEW!</b>	7.86	6.29	5.31
	16K	—	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21237KFP#U1-ND <b>NEW!</b>	8.38	6.71	5.66
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21238DFP#U0-ND <b>NEW!</b>	7.06	5.65	4.77
	32K	—	2K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/2/—	44	20MHz/2.2 - 5.5V	-40°C - 85°C	52-LQFP	R5F21238JFP#U1-ND <b>NEW!</b>	8.38	6.71	5.66
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21244SDFP#U0-ND <b>NEW!</b>	4.82	3.86	3.26
	48K	—	2.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/2/—	44	20MHz/2.2 - 5.5V	-40°C - 85°C	52-LQFP	R5F21244SNFP#U0-ND <b>NEW!</b>	5.13	4.11	3.20
									16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21246SDFP#U0-ND <b>NEW!</b>	5.10	4.08	3.45
	64K	—	3K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/2/—	44	20MHz/2.2 - 5.5V	-40°C - 85°C	52-LQFP	R5F21246SNFP#U0-ND <b>NEW!</b>	4.82	3.86	3.26
									16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21247SDFP#U0-ND <b>NEW!</b>	5.60	4.48	3.78
	8K	—	500	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21247SNFP#U0-ND <b>NEW!</b>	5.34	4.28	3.61
									16MHz/3.0 - 5.5V	-40°C - 125°C	48-LQFP	R5F21248SDFP#U0-ND <b>NEW!</b>	5.80	4.64	3.92
	16K	—	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21248SNFP#U0-ND <b>NEW!</b>	5.60	4.48	3.78
									16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21254SDFP#U0-ND <b>NEW!</b>	5.22	4.18	3.53
	32K	—	2K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/2/—	44	20MHz/2.2 - 5.5V	-40°C - 85°C	52-LQFP	R5F21254SNFP#U0-ND <b>NEW!</b>	4.96	3.97	3.35
									16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21256SDFP#U0-ND <b>NEW!</b>	5.46	4.37	3.69
	48K	—	2.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/2/—	44	20MHz/2.2 - 5.5V	-40°C - 85°C	52-LQFP	R5F21256SNFP#U0-ND <b>NEW!</b>	5.20	4.16	3.51
									16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21257SDFP#U0-ND <b>NEW!</b>	6.00	4.80	4.05
64K	—	3K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/2/—	44	20MHz/2.2 - 5.5V	-40°C - 85°C	52-LQFP	R5F21257SNFP#U0-ND <b>NEW!</b>	5.74	4.60	3.88	
								16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21258SDFP#U0-ND <b>NEW!</b>	6.26	5.01	4.23	
8K	—	500	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21258SNFP#U0-ND <b>NEW!</b>	6.00	4.80	4.05	
								16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21262SDFP#U0-ND <b>NEW!</b>	4.79	3.84	2.99	
16K	—	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21262SNFP#U0-ND <b>NEW!</b>	4.50	3.60	2.80	
								16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21264SDFP#U0-ND <b>NEW!</b>	5.11	4.09	3.18	
24K	—	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21264SNFP#U0-ND <b>NEW!</b>	4.79	3.84	2.99	
								16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21264YFP#U0-ND <b>NEW!</b>	5.04	4.04	3.41	
32K	—	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21265SDFP#U0-ND <b>NEW!</b>	5.40	4.32	3.36	
								16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21265SNFP#U0-ND <b>NEW!</b>	5.11	4.09	3.18	
8K	—	500	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21266SDFP#U0-ND <b>NEW!</b>	5.06	4.05	3.42	
								16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21266SNFP#U0-ND <b>NEW!</b>	5.40	4.32	3.36	
16K	—	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21272SDFP#U0-ND <b>NEW!</b>	5.24	4.20	3.27	
								16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21272SNFP#U0-ND <b>NEW!</b>	4.95	3.96	3.08	
24K	—	1.5K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21272SNFP#U0-ND <b>NEW!</b>	5.56	4.45	3.46	
								16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21274SNFP#U0-ND <b>NEW!</b>	5.24	4.20	3.27	
32K	—	2K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21274YFP#U0-ND <b>NEW!</b>	5.60	4.48	3.78	
								16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21275SDFP#U0-ND <b>NEW!</b>	5.20	4.16	3.51	
8K	—	500	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21275SNFP#U0-ND <b>NEW!</b>	5.56	4.45	3.46	
								16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21276SDFP#U0-ND <b>NEW!</b>	5.46	4.37	3.69	
16K	—	1K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21276SNFP#U0-ND <b>NEW!</b>	5.20	4.16	3.51	
								16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21276YFP#U0-ND <b>NEW!</b>	5.80	4.64	3.92	
32K	—	2K	12-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/—	28	20MHz/2.2 - 5.5V	-40°C - 85°C	32-LQFP	R5F21276YFP#U0-ND <b>NEW!</b>	5.80	4.64	3.92	
								16MHz/3.0 - 5.5V	-40°C - 85°C	48-LQFP	R5F21282SDSP#U0-ND <b>NEW!</b>	4.21	3.37	2.62	
60K	—	2K	8-ch. 10-bit	—	2 USART, 1 SSU*, 1 I2C	3/1/									