



Microcontrollers – 8 and 16 Bit
HC908 Family — 8-Bit (Cont.)



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FLASH (Bytes)	RAM (Bytes)	EEPROM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	PWM	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.		
													1	25	100			
8K	512	—	6	4-Ch., 10-Bit	—	—	—	1.8 - 3.6	8.0	-40 - 85	8-SOIC	MC9S08QG8CDNE-ND	2.14	1.30	1.19	MC9S08QG8CDNE		
		—	14	8-Ch., 10-Bit	2-Ch.	—	—	—	1.8 - 3.6	10.0	-40 - 85	16-TSSOP	MC9S08QG8CDTE-ND	2.45	1.50	1.37	MC9S08QG8CDTE	
		—	14	8-Ch., 10-Bit	2-Ch.	I ² C, SPI, SCI	—	—	1.8 - 3.6	8.0	-40 - 85	16-TSOP	MC9S08QG8CDTERCT-ND	2.28	1.46	1.37	MC9S08QG8CDTER	
		—	14	8-Ch., 10-Bit	2-Ch.	I ² C, SPI, SCI	—	—	1.8 - 3.6	8.0	-40 - 85	16-TSOP	MC9S08QG8CDTERTR-ND	3275.00/2,500			MC9S08QG8CDTER	
		—	14	8-Ch., 10-Bit	2-Ch.	—	—	—	1.8 - 3.6	10.0	-40 - 85	16-OFN	MC9S08QG8CFFE-ND	2.48	1.52	1.38	MC9S08QG8CFFE	
		—	14	8-Ch., 10-Bit	2-Ch.	—	—	—	1.8 - 3.6	10.0	-40 - 85	16-OFN	MC9S08QG8CFFRCT-ND	2.66	1.62	1.48	MC9S08QG8CFFRCT	
		—	14	8-Ch., 10-Bit	2-Ch.	—	—	—	1.8 - 3.6	10.0	-40 - 85	16-OFN	MC9S08QG8CFFERTR-ND	3312.00/2,500			MC9S08QG8CFFER	
		—	14	8-Ch., 10-Bit	2-Ch.	—	—	—	1.8 - 3.6	10.0	-40 - 85	24-OFN	MC9S08QG8CFKE-ND	2.74	1.67	1.53	MC9S08QG8CFKE	
		—	6	4-Ch., 10-Bit	—	—	—	—	1.8 - 3.6	8.0	-40 - 85	8-OFN-D	MC9S08QG8CFDE-ND	2.22	1.36	1.17	MC9S08QG8CFDE	
		—	14	8-Ch., 10-Bit	2-Ch.	—	—	—	1.8 - 3.6	10.0	-40 - 85	16-DIP	MC9S08QG8CPBE-ND	2.34	1.43	1.30	MC9S08QG8CPBE	
		8K	1K	—	39	8-Ch., 10-Bit	3-Ch. + 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 - 125	48-OFN	MC9S08GT8AMFDE-ND	2.28	2.10	1.91	MC9S08GT8AMFDE
				—	36	8-Ch., 10-Bit	2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 - 85	44-OFN	MC9S08GT8AMFBE-ND	2.90	2.04	1.86	MC9S08GT8AMFBE
—	24			8-Ch., 10-Bit	2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 - 125	32-OFN	MC9S08GT8AMFCE-ND	2.90	2.04	1.86	MC9S08GT8AMFCE		
—	39			8-Ch., 10-Bit	3-Ch. + 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 - 85	48-OFN	MC9S08GT8ACFDE-ND	2.73	1.92	1.75	MC9S08GT8ACFDE		
—	36			8-Ch., 10-Bit	2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 - 85	44-OFN	MC9S08GT8ACFERCT-ND	2.85	2.01	1.83	MC9S08GT8ACFER		
—	36			8-Ch., 10-Bit	2-Ch.	—	—	—	1.8 - 3.6	20.0	-40 - 85	44-OFN	MC9S08GT8ACFBERR-ND	1296.18/750			MC9S08GT8ACFBERR	
—	36			8-Ch., 10-Bit	Dual 2-Ch.	—	—	—	1.8	20.0	-40 - 85	44-OFN	MC9S08GT8ACFBCE-ND	2.63	1.85	1.69	MC9S08GT8ACFBCE	
—	34			8-Ch., 10-Bit	Dual 2-Ch.	—	—	—	1.8	20.0	-40 - 85	42-SOIP	MC9S08GT8ACBCE-ND	2.63	1.85	1.69	MC9S08GT8ACBCE	
—	24			8-Ch., 10-Bit	2-Ch.	—	—	—	1.8	20.0	-40 - 85	32-OFN	MC9S08GT8ACFCE-ND	2.63	1.85	1.69	MC9S08GT8ACFCE	
16K	1K			—	36	8-Ch., 10-Bit	Dual 2-Ch.	—	—	1.8 - 3.6	20.0	-40 - 85	44-OFN	MC9S08GT16CFBE-ND	5.63	4.02	3.66	MC9S08GT16CFBE
				—	39	—	2-Ch.	—	—	3.0	8.0	0 - 70	32-LOFP	MC9S08RE16FJE-ND	6.00	4.22	3.85	MC9S08RE16FJE
				—	39	—	2-Ch.	—	—	3.0	8.0	0 - 70	44-LOFP	MC9S08RE16FGE-ND	6.00	4.22	3.85	MC9S08RE16FGE
		—	38	16-Ch., 10-Bit	2-Ch. + 6-Ch.	—	—	3.0 - 5.0	20.0	-40 - 85	48-OFN	MC9S08AW16CFDE-ND	3.85	2.71	2.47	MC9S08AW16CFDE		
		—	34	16-Ch., 10-Bit	2-Ch. + 6-Ch.	—	—	3.0 - 5.0	20.0	-40 - 85	44-LOFP	MC9S08AW16CFGE-ND	3.65	2.57	2.35	MC9S08AW16CFGE		
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	—	—	3.0 - 5.0	20.0	-40 - 85	64-OFN	MC9S08AW16CFUE-ND	4.13	2.90	2.65	MC9S08AW16CFUE		
	2K	—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	—	—	3.0 - 5.0	20.0	-40 - 85	64-LOFP	MC9S08AW16CPUE-ND	4.13	2.90	2.65	MC9S08AW16CPUE		
		—	39	8-Ch., 10-Bit	3-Ch. + 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 - 125	48-OFN	MC9S08GT16AMFDE-ND	2.76	2.53	2.31	MC9S08GT16AMFDE		
		—	36	8-Ch., 10-Bit	Dual 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 - 125	44-OFN	MC9S08GT16AMFBE-ND	2.68	2.46	2.25	MC9S08GT16AMFBE		
		—	24	8-Ch., 10-Bit	2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 - 125	32-OFN	MC9S08GT16AMFCE-ND	2.68	2.46	2.25	MC9S08GT16AMFCE		
		—	39	8-Ch., 10-Bit	3-Ch. + 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 - 85	48-OFN	MC9S08GT16ACFDE-ND	2.51	2.31	2.10	MC9S08GT16ACFDE		
		—	36	8-Ch., 10-Bit	Dual 2-Ch.	2 SCI, SPI	5-Ch., 16-Bit	1.8	20.0	-40 - 85	44-OFN	MC9S08GT16ACFBE-ND	3.20	2.25	2.06	MC9S08GT16ACFBE		
32K	2K	—	36	8-Ch., 10-Bit	2-Ch.	—	—	1.8 - 3.6	20.0	-40 - 85	44-OFN	MC9S08GT16ACFBERR-ND	1557.69/750			MC9S08GT16ACFBERR		
		—	36	8-Ch., 10-Bit	2-Ch.	—	—	1.8 - 3.6	20.0	-40 - 85	44-OFN	MC9S08GT16ACFBCE-ND	3.20	2.25	2.06	MC9S08GT16ACFBCE		
		—	34	8-Ch., 10-Bit	Dual 2-Ch.	—	—	—	1.8	20.0	-40 - 85	42-SOIP	MC9S08GT16ACBCE-ND	3.20	2.25	2.06	MC9S08GT16ACBCE	
		—	24	8-Ch., 10-Bit	2-Ch.	—	—	—	1.8	20.0	-40 - 85	32-OFN	MC9S08GT16ACFCE-ND	3.20	2.25	2.06	MC9S08GT16ACFCE	
		—	36	8-Ch., 10-Bit	2-Ch.	—	—	—	3.0 - 5.0	20.0	-40 - 85	42-SOIP	MC9S08GT32ACBCE-ND	5.45	3.84	3.50	MC9S08GT32ACBCE	
		—	36	8-Ch., 10-Bit	Dual 2-Ch.	—	—	—	3.6	20.0	-40 - 85	44-OFN	MC9S08GT32CFBE-ND	8.17	5.84	5.31	MC9S08GT32CFBE	
	4K	—	36	8-Ch., 10-Bit	Dual 2-Ch.	—	—	1.8 - 3.6	20.0	-40 - 85	48-OFN	MC9S08GT32CFDE-ND	8.39	5.99	5.45	MC9S08GT32CFDE		
		—	38	16-Ch., 10-Bit	2-Ch. + 6-Ch.	—	—	3.0 - 5.0	20.0	-40 - 85	48-OFN	MC9S08AW32CFDE-ND	4.13	2.90	2.65	MC9S08AW32CFDE		
		—	34	16-Ch., 10-Bit	2-Ch. + 6-Ch.	—	—	3.0 - 5.0	20.0	-40 - 85	44-LOFP	MC9S08AW32CFGE-ND	3.95	2.78	2.54	MC9S08AW32CFGE		
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	—	—	3.0 - 5.0	20.0	-40 - 85	64-OFN	MC9S08AW32CFUE-ND	4.40	3.10	2.83	MC9S08AW32CFUE		
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	—	—	3.0 - 5.0	20.0	-40 - 85	64-LOFP	MC9S08AW32CPUE-ND	4.40	3.10	2.83	MC9S08AW32CPUE		
		—	34	8-Ch., 10-Bit	2-Ch. + 6-Ch.	—	—	3.0 - 5.0	20.0	-40 - 125	44-LOFP	MC9S08AW32MFGGE-ND	4.33	3.04	2.78	MC9S08AW32MFGGE		
36K	2K	—	18	2-Ch., 12-Bit	2-Ch.	—	—	1.8 - 3.6	40.0	-40 - 85	64-LOFP	MC9S08LC36LH-ND	5.56	4.61	4.20	MC9S08LC36LH		
		—	23	8-Ch., 12-Bit	2-Ch.	—	—	1.8 - 3.6	40.0	-40 - 85	80-LOFP	MC9S08LC36LK-ND	5.77	4.78	4.37	MC9S08LC36LK		
48K	2K	—	36	8-Ch., 10-Bit	2-Ch. + 6-Ch.	2 SCI, 1 SPI, I ² C	See Timer	3.0 - 5.0	20.0	-40 - 85	48-OFN	MC9S08AW48CFDE-ND	4.93	3.47	3.16	MC9S08AW48CFDE		
		—	34	16-Ch., 10-Bit	2-Ch. + 6-Ch.	2 SCI, 1 SPI, I ² C	See Timer	3.0 - 5.0	20.0	-40 - 85	44-LOFP	MC9S08AW48CFGE-ND	4.75	3.34	3.05	MC9S08AW48CFGE		
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	2 SCI, 1 SPI, I ² C	See Timer	3.0 - 5.0	20.0	-40 - 85	64-OFN	MC9S08AW48CFUE-ND	5.23	3.68	3.36	MC9S08AW48CFUE		
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	2 SCI, 1 SPI, I ² C	See Timer	3.0 - 5.0	20.0	-40 - 85	64-OFN	MC9S08AW48CFUERTR-ND	2419.50/750			MC9S08AW48CFUER		
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	2 SCI, 1 SPI, I ² C	See Timer	3.0 - 5.0	20.0	-40 - 85	64-LOFP	MC9S08AW48CPUE-ND	5.23	3.68	3.36	MC9S08AW48CPUE		
60K	2K	—	38	16-Ch., 10-Bit	2-Ch. + 6-Ch.	—	—	3.0 - 5.0	20.0	-40 - 85	48-OFN	MC9S08AW60CFDE-ND	5.35	3.76	3.44	MC9S08AW60CFDE		
		—	34	16-Ch., 10-Bit	2-Ch. + 6-Ch.	—	—	3.0 - 5.0	20.0	-40 - 85	44-LOFP	MC9S08AW60CFGE-ND	5.15	3.62	3.31	MC9S08AW60CFGE		
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	—	—	3.0 - 5.0	20.0	-40 - 85	64-OFN	MC9S08AW60CFUE-ND	5.63	3.96	3.61	MC9S08AW60CFUE		
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	—	—	3.0 - 5.0	20.0	-40 - 85	64-OFN	MC9S08AW60CFUERTR-ND	2562.75/750			MC9S08AW60CFUER		
		—	54	16-Ch., 10-Bit	2-Ch. + 6-Ch.	—	—	3.0 - 5.0	20.0	-40 - 85	64-LOFP	MC9S08AW60CPUE-ND	5.63	3.96	3.61	MC9S08AW60CPUE		
		—	27	—	2-Ch.	—	—	—	1.8 - 3.6	8.0	-40 - 85	32-LOFP	MC9S08RG60CFJ-ND	9.67	7.32	6.74	MC9S08RG60CFJ	
	4K	—	36	8-Ch., 10-Bit	Dual 2-Ch.	—	—	—	3.6	20.0	-40 - 85	42-SOIP	MC9S08GT60ACBCE-ND	6.22	5.15	4.70	MC9S08GT60ACBCE	
		—	36	8-Ch., 10-Bit	3-Ch. + 5-Ch.	—	—	—	1.8 - 3.6	20.0	-40 - 85	44-OFN	MC9S08GT60ACFBERR-ND	6.01	4.98	4.54	MC9S08GT60ACFBERR	
		—	36	8-Ch., 10-Bit	3-Ch. + 5-Ch.	—	—	—	1.8 - 3.6	20.0	-40 - 85	44-OFN	MC9S08GT60ACFBCE-ND	3217.71/750			MC9S08GT60ACFBCE	
		—	39	8-Ch., 10-Bit	3-Ch. + 5-Ch.	—	—	—	1.8 - 3.6	20.0	-40 - 85	48-OFN	MC9S08GT60ACFDERCT-ND	6.18	5.12	4.67	MC9S08GT60ACFDER	
		—	39	8-Ch., 10-Bit	3-Ch. + 5-Ch.	—	—	—	1.8 - 3.6	20.0	-40 - 85	48-OFN	MC9S08GT60ACFDERTR-ND	8380.80/2,000			MC9S08GT60ACFDER	
		—	36	8-Ch., 10-Bit	Dual 2-Ch.	—	—	—	1.8 - 3.6	20.0	-40 - 85	48-OFN	MC9S08GT60CFDE-ND	9.67	7.32	6.75	MC9S08GT60CFDE	
60K	4K	—	56	8-Ch., 10-Bit	3-Ch. + 5-Ch.	—	—	3.6	20.0	-40 - 85	64-LOFP	MC9S08GB60CFUE-ND	10.05	7.61	7.01	MC9S08GB60CFUE		
		—	18	2-Ch., 12-Bit	2-Ch.	—	—	—	1.8 - 3.6	20.0	-40 - 85	64-LOFP	MC9S08LC60LH-ND	6.54	5.42	4.94	MC9S08LC60LH	
		—	18	2-Ch., 12-Bit	2-Ch.	—	—	—	1.8 - 3.6	20.0	-40 - 85	80-LOFP	MC9S08LC60LK-ND	6.75	5.59	5.10	MC9S08LC60LK	

Demo Boards

Demo Board for MC9S08AW60	DEM09S08AW60E-ND	91.80/1	DEM09S08AW60E
Demo Board for MC9S08DZ60	DEM09S08DZ60-ND	84.24/1	DEM09S08DZ60
Demo Board for 9S08LC60 / LCD			



Microcontrollers – 8 and 16 Bit (Cont.)

HC912 Family — 16-Bit

The 68HC12 CPU is upwardly compatible with the 68HC11 core and supports all registers, instructions, addressing modes and operating modes of the 68HC11. **Features:** Fully static design allowing operation down to DC • 16-bit Accumulator • 20-bit ALU • 16-bit Timer with built-in prescaler • BDM (Background Debug Module) for faster debugging and non-

intrusive, real time read/write capability to the memory and registers • SAE J1850 BDL-C (Byte Data Link Control Module) for single wire communication with other BDL MCUs • COP Watchdog Timer • Low power STOP and WAIT modes • SPI, SCI, I²C and CAN 2.0 • High-level language optimization • 32/16 Divide • 16 x 16 Multiply



Flash (Bytes)	RAM (Bytes)	EEPROM (Bytes)	Timer	PWM	I/O	A/D	Features	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each	100	Freescale Part No.
32K	1K	768	8-Ch., 16-Bit	2-Ch., 8-Bit	63	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 - 85	80-OPF	MCHC912B32CFUE8-ND	18.69	17.15	15.65
		768	8-Ch., 16-Bit	2-Ch., 8-Bit	63	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 - 105	80-OPF	MCHC912B32VFUE8-ND	19.59	17.98	16.40
	3.5K	—	8-Ch., 16-Bit	See Timer	75	—	USB 2.0	5.0	30.0	0 - 70	100-LOFP	MC9S12UF32PUE-ND	8.41	6.96	5.46
		—	8-Ch., 16-Bit	See Timer	37	—	USB 2.0	5.5	30.0	-40 - 85	64-LOFP	MC9S12UF32PBE-ND	7.86	6.51	5.94
60K	2K	1K	8-Ch., 16-Bit	4-Ch., 8-Bit	48	8-Ch., 10-Bit	CAN 2.0	5.0	8.0	-40 - 85	80-OPF	MC912D60ACFUE8-ND	17.31	15.89	14.50
64K	4K	1K	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI	5.0	25.0	-40 - 85	80-OPF	MCS12GC64CFUE-ND	6.60	5.47	4.72
		1K	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI	5.0	25.0	-40 - 125	80-OPF	MCS12GC64MFUE-ND	7.43	5.95	5.25
128K	2K	2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 - 85	112-LOFP	MC912DG128ACFUE-ND	30.31	27.82	25.38
		2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 - 125	112-LOFP	MC912DG128AMPVE-ND	33.03	30.31	27.66
	2K	2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 - 85	112-LOFP	MC912DG128ACPVERT-ND	28.15	22.08	20.80
		2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 - 85	112-LOFP	MC912DG128ACPVERT-ND	11534.50/5000		
HC9S12															
6K	2K	1K	8-Ch., 16-Bit	4-Ch., 16-Bit	16	8-Ch., 10-Bit	CAN 2.0	5.0	8.0	-40 - 85	112-LOFP	MC912D60ACPVFUE8-ND	17.31	15.89	14.50
16K	1K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI	3.3 - 5.5	25.0	-40 - 125	80-OPF	MC9S12GC16MFUE-ND	7.71	6.38	5.01
		—	8-Ch., 16-Bit	6-Ch., 8-Bit	35	8-Ch., 10-Bit	SCI, SPI	3.3 - 5.5	25.0	-40 - 125	52-LOFP	MC9S12GC16MPBE-ND	7.41	6.14	5.60
32K	2K	—	8-Ch., 16-Bit	See Timer	60	8-Ch., 10-Bit	CAN 2.0	3.15 - 5.55	25.0	-40 - 125	80-OPF	MC9S12G32MFUE25-ND	11.16	8.45	7.79
		—	8-Ch., 16-Bit	See Timer	60	8-Ch., 10-Bit	CAN 2.0	3.15 - 5.55	25.0	-40 - 125	80-OPF	MC9S12G32MFUE25-ND	9.38	7.77	7.09
		—	8-Ch., 16-Bit	See Timer	60	8-Ch., 10-Bit	CAN 2.0	3.15 - 5.55	25.0	-40 - 125	52-LOFP	MC9S12G32MPBE25-ND	10.65	8.06	7.43
		—	8-Ch., 16-Bit	See Timer	60	8-Ch., 10-Bit	CAN 2.0	3.15 - 5.55	25.0	-40 - 125	52-LOFP	MC9S12G32MPBE25-ND	8.77	7.26	6.63
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI	3.3 - 5.5	25.0	-40 - 125	80-OPF	MC9S12G32MFUE-ND	9.30	7.70	7.03
		—	8-Ch., 16-Bit	6-Ch., 8-Bit	35	8-Ch., 10-Bit	SCI, SPI	3.3 - 5.5	25.0	-40 - 125	52-LOFP	MC9S12G32MPBE-ND	7.69	6.37	5.45
		—	8-Ch., 16-Bit	6-Ch., 8-Bit	31	8-Ch., 10-Bit	SCI, SPI	3.3 - 5.5	25.0	-40 - 105	48-LOFP	MC9S12G32VFUE-ND	6.61	6.07	5.24
		—	8-Ch., 16-Bit	6-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 125	80-OPF	MC9S12B64MFUE-ND	9.92	9.07	8.29
64K	2K	1K	8-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 85	80-OPF	MC9S12B64MFUE-ND	10.36	8.58	7.83
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 85	112-LOFP	MC9S12B64CFUE-ND	10.36	8.58	7.83
	4K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	35	8-Ch., 10-Bit	CAN 2.0, SCI, SPI	3.3 - 5.5	25.0	-40 - 125	52-LOFP	MC9S12C64MPBE-ND	10.51	8.70	7.94
		1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 125	80-OPF	MC9S12D64MFUE-ND	11.66	10.70	9.77
		1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 125	112-LOFP	MC9S12D64MPVE-ND	12.12	11.13	10.15
		1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 85	80-OPF	MC9S12D64CFUE-ND	10.61	9.74	8.89
	8K	—	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 105	80-OPF	MC9S12D64VFUE-ND	11.13	10.21	9.32
		—	(3) 4-Ch., 16-Bit	See Timer	90	16-Ch., 10-Bit	—	3.3 - 5.0	25.0	-40 - 85	80-OPF	MC9S12E64CFU-ND	12.26	9.27	8.55
—		(3) 4-Ch., 16-Bit	See Timer	90	16-Ch., 10-Bit	—	3.3 - 5.0	25.0	-40 - 85	80-OPF	MC9S12E64CFUE-ND	8.96	7.42	6.77	
—		12-Ch., 16-Bit	6-Ch., 8-Bit	92	16-Ch., 10-Bit	(3) SCI, SPI, I ² C	5.0	25.0	-40 - 125	112-LOFP	MC9S12E64MPVE-ND	10.93	9.16	8.23	
12K	1K	—	4-Ch., 16-Bit	See Timer	58	16-Ch., 10-Bit	CAN 2.0, SCI	5.0	25.0	-40 - 85	80-OPF	MC9S12HZ64CAA-ND	13.41	12.30	10.62
		—	4-Ch., 16-Bit	See Timer	36	8-Ch., 10-Bit	Ethernet	3.3 - 5.0	25.0	-40 - 105	80-TOFP	MC9S12NE64VTU-ND	17.24	13.04	12.02
96K	4K	—	8-Ch., 16-Bit	See Timer	38	8-Ch., 10-Bit	Ethernet	3.3 - 5.0	25.0	-40 - 105	80-TOFP	MC9S12NE64VTUE-ND	9.84	9.04	8.24
		—	8-Ch., 16-Bit	See Timer	70	8-Ch., 10-Bit	Ethernet	3.3 - 5.0	25.0	-40 - 85	112-LOFP	MC9S12NE64CPV-ND	15.74	11.91	10.98
		—	8-Ch., 16-Bit	See Timer	70	8-Ch., 10-Bit	Ethernet	3.3 - 5.0	25.0	-40 - 85	112-LOFP	MC9S12NE64CPVE-ND	10.38	9.53	8.69
		—	(3) 4-Ch., 16-Bit	See Timer	90	16-Ch., 10-Bit	—	3.3 - 5.0	25.0	-40 - 125	80-OPF	MC9S12E64MFUE-ND	9.85	8.16	7.44
	6K	—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	CAN 2.0	3.3 - 5.0	25.0	-40 - 85	80-OPF	MC9S12C96CFUERCT-ND	10.72	8.98	8.40
		—	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	CAN 2.0	3.3 - 5.0	25.0	-40 - 85	80-OPF	MC9S12C96CFUERTR-ND	6048.00/750		
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 - 125	80-OPF	MC9S12B128MFUE-ND	13.08	12.01	10.95
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 - 105	80-OPF	MC9S12B128VFUE-ND	12.47	11.07	9.77
128K	4K	1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 - 85	112-LOFP	MC9S12B128CPVE-ND	12.16	11.16	10.18
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 - 125	112-LOFP	MC9S12B128MPVE-ND	13.42	12.32	10.63
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 - 105	112-LOFP	MC9S12B128VPVE-ND	12.83	11.78	10.75
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 - 105	112-LOFP	MC9S12B128VPVE-ND	12.83	11.78	10.75
	6K	2K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 85	48-LOFP	MC9S12C128CFUE-ND	10.78	9.03	8.11
		2K	8-Ch., 16-Bit	6-Ch., 8-Bit	37	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 125	48-POFP	MC9S12C128MFAE-ND	10.03	8.40	7.55
		2K	8-Ch., 16-Bit	6-Ch., 8-Bit	85	16-Ch., 10-Bit	(2)CAN 2.0, (2)SCI, SPI, I ² C	5.0	25.0	-40 - 85	112-LOFP	MC9S12HZ128CAL-ND	15.03	13.80	12.59
		2K	8-Ch., 16-Bit	6-Ch., 8-Bit	85	16-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 105	112-LOFP	MC9S12HZ128VAL-ND	15.78	13.21	11.87
256K	12K	2K	8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 85	112-LOFP	MC9S12D128CPVE-ND	18.45	14.47	13.63
		2K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 85	112-LOFP	MC9S12D128CPVE-ND	13.86	12.73	10.98
		2K	8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 125	112-LOFP	MC9S12D128MPV-ND	19.13	15.01	14.14
		2K	8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 105	112-LOFP	MC9S12D128VPV-ND	18.27	14.34	13.50
	8K	2K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	80-OPF	MC9S12D128CFUE-ND	14.65	13.45	12.27
		2K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	80-OPF	MC9S12D128CFUE-ND	13.62	12.50	10.78
		2K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	80-OPF	MC9S12D128CFUERTR-ND	7938.00/750		
		2K	8-Ch., 16-Bit	See Timer	59	8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	80-OPF	MC9S12D128CFUE-ND	13.88	12.74	11.00
512K	16K	4K	8-Ch., 16-Bit	8-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	112-LOFP	MC9S12D128CPVE-ND	14.29	13.11	11.31
		4K	8-Ch., 16-Bit	8-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	112-LOFP	MC9S12D128CPVE-ND	14.06	12.90	11.13
	4K	2K	8-Ch., 16-Bit	See Timer	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	112-LOFP	MC9S12D128CPVE-ND	14.31	13.13	11.33
		2K	8-Ch., 16-Bit	See Timer	59	16-Ch., 10-Bit	—	3.3 - 5.0	25.0	-40 - 85	80-OPF	MC9S12E128CFUE-ND	10.04	8.32	7.59
14K	—	(3) 4-Ch., 16-Bit	See Timer	59	16-Ch., 10-Bit	—	3.3 - 5.0	25.0	-40 - 125	80-OPF	MC9S12E128MFUE-ND	9.96	9.14	8.34	
	—	12-Ch., 16-Bit	6-Ch., 8-Bit	60	—	CAN 2.0	5.0	25.0	-40 - 85	112-LOFP	MC9S12E128CPVE-ND	10.38	8.69	7.24	
	—	(3) 4-Ch., 16-Bit	6-Ch., 8-Bit	92	16-Ch., 10-Bit	(3) SCI, SPI, I ² C	5.0	25.0	-40 - 125	112-LOFP	MC9S12E128MPVE-ND	11.41	10.48	9.56	
	—	8-Ch., 16-Bit	8-Ch., 16-Bit	59	8-Ch., 10-Bit	SCI, SPI	3.3	40.0	-40 - 105	80-POFP	MC9S12XA256CAARCT-ND	13.19	11.05	10.34	
14K	4K	8-Ch., 16-Bit	8-Ch., 16-Bit	59	8-Ch., 10-Bit	SCI, SPI	3.3	40.0	-40 - 105	80-POFP	MC9S12XA256CAARCT-ND	7482.75/500			
	4K	8-Ch., 16-Bit</													