



Microcontrollers – 8 and 16 Bit
HC912 Family — 16-Bit (Cont.)



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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	1	100	Freescale Part No.	
131K	4K	1K	8-Ch., 10-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, I2C, CAN	5.5	25.0	-40 - 85	80-QFP	MC9S12B128CFUE-ND	11.87	9.94	9.40	MC9S12B128CFUE	
		8K	8-Ch., 10-Bit	See Timer	99	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	16.0	-40 - 105	144-LQFP	MC9S12H128VFEV-ND	16.35	13.69	12.95	MC9S12H128VFEV	
	8K	2K	8-Ch., 10-Bit	See Timer	59	8-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 85	80-QFP	MC9S12A128CFUE-ND	NEW!	13.14	11.00	10.40	MC9S12A128CFUE
		2K	8-Ch., 10-Bit	See Timer	59	8-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 85	112-LQFP	MC9S12A128CPVE-ND	NEW!	13.54	11.34	10.72	MC9S12A128CPVE
		2K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 125	112-LQFP	MC9S12DG128MPVE-ND	NEW!	15.45	12.94	12.24	MC9S12DG128MPVE
		2K	7-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 105	80-QFP	MC9S12DG128VFEV-ND	NEW!	14.29	11.96	11.31	MC9S12DG128VFEV
		2K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 105	112-LQFP	MC9S12DG128VPVE-ND	NEW!	14.75	12.35	11.68	MC9S12DG128VPVE
		2K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0, (2) SCI, SPI, I2C	3.3 - 5.5	25.0	-40 - 125	80-QFP	MC9S12B256MFUE-ND	NEW!	16.11	14.78	13.49	MC9S12B256MFUE
12K	4K	8-Ch., 16-Bit	See Timer	59	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	80-QFP	MC9S12DG256CFUE-ND	NEW!	16.91	15.52	14.16	MC9S12DG256CFUE	
	4K	8-Ch., 16-Bit	See Timer	59	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	112-LQFP	MC9S12DG256CPVE-ND	NEW!	17.35	15.92	14.53	MC9S12DG256CPVE	
	4K	8-Ch., 16-Bit	See Timer	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	80-QFP	MC9S12DJ256CFUE-ND	NEW!	18.56	17.03	15.54	MC9S12DJ256CFUE	
	4K	8-Ch., 16-Bit	See Timer	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	112-LQFP	MC9S12DJ256CPVE-ND	NEW!	19.00	17.43	15.91	MC9S12DJ256CPVE	
	4K	8-Ch., 16-Bit	See Timer	115	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	16.0	-40 - 105	144-LQFP	MC9S12H256VFEV-ND	NEW!	18.94	15.86	15.00	MC9S12H256VFEV	
	4K	8-Ch., 16-Bit	6-Ch., 8-Bit	117	16-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 105	144-LQFP	MC9S12H256VFERCT-ND	NEW!	17.69	16.15	15.11	MC9S12H256VFERCT	
	4K	8-Ch., 16-Bit	6-Ch., 8-Bit	117	16-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 105	144-LQFP	MC9S12H256VFERTR-ND	NEW!	7250.50/500			MC9S12H256VFERTR	
	4K	8-Ch., 16-Bit	See Timer	83	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	16.0	-40 - 105	112-LQFP	MC9S12H256VPVE-ND	NEW!	17.10	14.32	13.54	MC9S12H256VPVE	
14K	2K	8-Ch., 16-Bit	See Timer	85	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	16.0	-40 - 85	112-LQFP	MC9S12H256CAL-ND	NEW!	17.29	14.48	13.69	MC9S12H256CAL	
	2K	8-Ch., 16-Bit	See Timer	85	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	16.0	-40 - 105	112-LQFP	MC9S12H256VAL-ND	NEW!	18.15	15.20	14.38	MC9S12H256VAL	
	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	80-QFP	MC9S12XD256CAA-ND	NEW!	10.61	8.89	8.40	MC9S12XD256CAA	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	144-LQFP	MC9S12XD256CAG-ND	NEW!	10.95	9.17	8.68	MC9S12XD256CAG	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	112-LQFP	MC9S12XD256CAL-ND	NEW!	10.74	9.00	8.51	MC9S12XD256CAL	
	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 125	80-QFP	MC9S12XD256MAA-ND	NEW!	13.58	11.37	10.75	MC9S12XD256MAA	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 125	144-LQFP	MC9S12XD256MAG-ND	NEW!	14.06	11.77	11.13	MC9S12XD256MAG	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 125	112-LQFP	MC9S12XD256MAL-ND	NEW!	13.75	11.51	10.89	MC9S12XD256MAL	
256K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 105	112-LQFP	MC9S12XD256VAL-ND	NEW!	13.10	10.97	10.37	MC9S12XD256VAL	
	—	4-Ch., 16-Bit	6-Ch., 8-Bit	60	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 85	80-QFP	MC9S12E256CFUE-ND	NEW!	10.76	9.01	8.52	MC9S12E256CFUE	
	—	4-Ch., 16-Bit	6-Ch., 8-Bit	60	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 85	112-LQFP	MC9S12E256CPVE-ND	NEW!	11.18	9.37	8.86	MC9S12E256CPVE	
	—	4-Ch., 16-Bit	6-Ch., 8-Bit	58	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 125	80-QFP	MC9S12E256MFUE-ND	NEW!	11.85	9.93	9.39	MC9S12E256MFUE	
	—	4-Ch., 16-Bit	6-Ch., 8-Bit	90	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 125	112-LQFP	MC9S12E256MPVE-ND	NEW!	12.29	10.30	9.74	MC9S12E256MPVE	
	—	4-Ch., 16-Bit	6-Ch., 8-Bit	60	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 105	80-QFP	MC9S12E256VFEV-ND	NEW!	11.32	9.48	8.96	MC9S12E256VFEV	
	—	4-Ch., 16-Bit	6-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 105	112-LQFP	MC9S12E256VPVE-ND	NEW!	11.74	9.83	9.30	MC9S12E256VPVE	
	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, I2C	5.5	40.0	-40 - 85	80-QFP	MC9S12XA256CAA-ND	NEW!	10.32	8.64	8.18	MC9S12XA256CAA	
16K	4K	8-Ch., 16-Bit	8-Ch., 16-Bit	59	8-Ch., 10-Bit	SCI, SPI	3.3	40.0	-40 - 105	80-PQFP	MC9S12XA256CAARCT-ND	NEW!	13.19	11.05	10.34	MC9S12XA256CAARCT	
	4K	8-Ch., 16-Bit	8-Ch., 16-Bit	59	8-Ch., 10-Bit	SCI, SPI	3.3	40.0	-40 - 105	80-PQFP	MC9S12XA256CAARTR-ND	NEW!	7482.75/500			MC9S12XA256CAARTR	
	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, I2C	5.0	40.0	-40 - 85	144-LQFP	MC9S12XA256CAG-ND	NEW!	10.67	8.93	8.45	MC9S12XA256CAG	
	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	40.0	-40 - 85	112-LQFP	MC9S12XA256CAL-ND	NEW!	10.46	8.76	8.28	MC9S12XA256CAL	
	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	40.0	-40 - 105	80-QFP	MC9S12XA256VAA-ND	NEW!	13.56	11.35	10.74	MC9S12XA256VAA	
	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	40.0	-40 - 105	112-LQFP	MC9S12XA256VAL-ND	NEW!	13.71	11.48	10.86	MC9S12XA256VAL	
	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	80-QFP	MC9S12XDT256CAA-ND	NEW!	11.18	9.37	8.86	MC9S12XDT256CAA	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	144-LQFP	MC9S12XDT256CAG-ND	NEW!	11.53	9.65	9.13	MC9S12XDT256CAG	
262K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	112-LQFP	MC9S12XDT256CAL-ND	NEW!	11.32	9.48	8.96	MC9S12XDT256CAL	
	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 125	80-QFP	MC9S12XDT256MAA-ND	NEW!	14.21	11.90	11.25	MC9S12XDT256MAA	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 125	144-LQFP	MC9S12XDT256MAG-ND	NEW!	14.69	12.30	11.63	MC9S12XDT256MAG	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 105	112-LQFP	MC9S12XDT256MAL-ND	NEW!	14.38	12.04	11.39	MC9S12XDT256MAL	
	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 105	80-QFP	MC9S12XDT256VAA-ND	NEW!	13.56	11.35	10.74	MC9S12XDT256VAA	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 105	144-LQFP	MC9S12XDT256VAG-ND	NEW!	14.00	11.72	11.09	MC9S12XDT256VAG	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	112-LQFP	MC9S12XDT256VAL-ND	NEW!	13.69	11.47	10.84	MC9S12XDT256VAL	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	117	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	144-LQFP	MC9S12XH256CAG-ND	NEW!	12.08	11.09	10.12	MC9S12XH256CAG	
512K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	117	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	112-LQFP	MC9S12XH256CAL-ND	NEW!	11.87	10.90	9.94	MC9S12XH256CAL	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	117	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 105	144-LQFP	MC9S12XH256VAL-ND	NEW!	12.68	11.64	10.62	MC9S12XH256VAL	
	4K	8-Ch., 10-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 105	80-QFP	MC9S12A256CFUE-ND	NEW!	16.03	13.42	12.69	MC9S12A256CFUE	
	4K	8-Ch., 10-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 125	80-QFP	MC9S12DG256MFUE-ND	NEW!	18.59	15.57	14.73	MC9S12DG256MFUE	
	4K	8-Ch., 10-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 125	112-LQFP	MC9S12DG256MPVE-ND	NEW!	19.07	15.97	15.10	MC9S12DG256MPVE	
	4K	8-Ch., 10-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 105	112-LQFP	MC9S12DG256VPVE-ND	NEW!	18.19	15.23	14.41	MC9S12DG256VPVE	
	4K	8-Ch., 10-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 85	112-LQFP	MC9S12DT256CPVE-ND	NEW!	18.48	15.47	14.63	MC9S12DT256CPVE	
	4K	8-Ch., 16-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 85	112-LQFP	MC9S12A512CPVE-ND	NEW!	18.92	15.84	14.98	MC9S12A512CPVE	
768K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 85	112-LQFP	MC9S12DP512CPVE-ND	NEW!	18.54	16.92	16.00	MC9S12DP512CPVE	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 125	112-LQFP	MC9S12DP512MPVE-ND	NEW!	20.40	18.62	17.61	MC9S12DP512MPVE	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 105	112-LQFP	MC9S12DP512VPVE-ND	NEW!	20.06	18.31	17.32	MC9S12DP512VPVE	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	(2) 8-Ch., 10-Bit	(5) CAN 2.0	5.0	25.0	-40 - 85	112-LQFP	MC9S12DP512CPVERCT-ND	NEW!	18.80	17.16	16.05	MC9S12DP512CPVERCT	
	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	(2) 8-Ch., 10-Bit	(5) CAN 2.0	5.0</										