

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	25	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	8.62	7.22	6.83	MC9S12B128CFUE	
			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	11.87	9.94	9.40	MC9S12H128VFEV	
			8-Ch., 10-Bit	See Timer	99	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	16.0	-40 - 105	112-LQFP	MC9S12H128VPEV-ND	10.79	9.04	8.55	MC9S12H128VPEV	
	8K	2K	8-Ch., 10-Bit	8-Ch., 10-Bit	See Timer	59	8-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 85	80-QFP	MC9S12A128CFUE-ND	9.54	7.99	7.56	MC9S12A128CFUE
				8-Ch., 10-Bit	See Timer	59	8-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 85	112-LQFP	MC9S12A128CPVE-ND	9.83	8.23	7.79	MC9S12A128CPVE
				8-Ch., 10-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 125	112-LQFP	MC9S12DG128MPVUE-ND	11.22	9.40	8.89	MC9S12DG128MPVUE
				7-Ch., 10-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 105	80-QFP	MC9S12DG128VFEV-ND	10.37	8.69	8.22	MC9S12DG128VFEV
				8-Ch., 10-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 105	112-LQFP	MC9S12DG128VPVE-ND	10.71	8.97	8.48	MC9S12DG128VPVE
				8-Ch., 10-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	11.70	10.73	9.79	MC9S12B256MFUE
	12K	4K	8-Ch., 10-Bit	8-Ch., 10-Bit	See Timer	59	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	80-QFP	MC9S12DG256CFUE-ND	12.28	11.27	10.28	MC9S12DG256CFUE
				8-Ch., 10-Bit	See Timer	59	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	112-LQFP	MC9S12DG256CPVE-ND	12.60	11.56	10.55	MC9S12DG256CPVE
				8-Ch., 10-Bit	See Timer	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	80-QFP	MC9S12DJ256CFUE-ND	13.47	12.37	11.28	MC9S12DJ256CFUE
8-Ch., 10-Bit				See Timer	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 - 85	112-LQFP	MC9S12DJ256CPVE-ND	13.79	12.66	11.55	MC9S12DJ256CPVE	
8-Ch., 10-Bit				See Timer	115	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	16.0	-40 - 105	144-LQFP	MC9S12H256VFEV-ND	13.75	11.51	10.89	MC9S12H256VFEV	
8-Ch., 10-Bit				6-Ch., 8-Bit	117	16-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 105	144-LQFP	MC9S12H256VFERCT-ND	12.84	11.72	10.97	MC9S12H256VFERCT	
14K	4K	8-Ch., 10-Bit	8-Ch., 8-Bit	117	16-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 - 105	144-LQFP	MC9S12H256VFERTR-ND	5263.86/500				MC9S12H256VFERTR	
			8-Ch., 10-Bit	See Timer	83	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	16.0	-40 - 105	112-LQFP	MC9S12H256VPEV-ND	12.41	10.40	9.83	MC9S12H256VPEV	
			8-Ch., 10-Bit	See Timer	85	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	16.0	-40 - 85	80-QFP	MC9S12H256CAL-ND	12.55	10.51	9.94	MC9S12H256CAL	
			8-Ch., 10-Bit	See Timer	85	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	16.0	-40 - 105	112-LQFP	MC9S12H256VAL-ND	13.18	11.14	10.44	MC9S12H256VAL	
			8-Ch., 10-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	80-QFP	MC9S12XD256CAA-ND	7.70	6.45	6.10	MC9S12XD256CAA	
			8-Ch., 10-Bit	8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	144-LQFP	MC9S12XD256CAG-ND	7.95	6.66	6.30	MC9S12XD256CAG	
	4K	8-Ch., 10-Bit	8-Ch., 8-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	80-QFP	MC9S12XD256CAL-ND	7.80	6.53	6.18	MC9S12XD256CAL	
				7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 125	80-QFP	MC9S12XD256MAA-ND	9.86	8.26	7.81	MC9S12XD256MAA	
				8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 125	144-LQFP	MC9S12XD256MAG-ND	10.21	8.55	8.08	MC9S12XD256MAG	
				8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 125	112-LQFP	MC9S12XD256MAL-ND	9.98	8.36	7.91	MC9S12XD256MAL	
				8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 105	112-LQFP	MC9S12XD256VAL-ND	9.51	7.96	7.53	MC9S12XD256VAL	
				4-Ch., 10-Bit	6-Ch., 8-Bit	60	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 85	80-QFP	MC9S12E256CFUE-ND	7.81	6.55	6.19	MC9S12E256CFUE
256K	4K	8-Ch., 10-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 85	112-LQFP	MC9S12E256CPVE-ND	8.12	6.80	6.43	MC9S12E256CPVE		
			8-Ch., 8-Bit	58	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 125	80-QFP	MC9S12E256MFUE-ND	8.60	7.21	6.82	MC9S12E256MFUE		
			8-Ch., 8-Bit	90	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 125	112-LQFP	MC9S12E256MPVE-ND	8.92	7.48	7.07	MC9S12E256MPVE		
			8-Ch., 8-Bit	60	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 105	80-QFP	MC9S12E256VFEV-ND	8.22	6.88	6.51	MC9S12E256VFEV		
			8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 105	112-LQFP	MC9S12E256VPVE-ND	8.52	7.14	6.75	MC9S12E256VPVE		
			8-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, I2C	5.5	40.0	-40 - 85	80-QFP	MC9S12XA256CAA-ND	7.49	6.28	5.94	MC9S12XA256CAA		
	4K	8-Ch., 10-Bit	8-Ch., 10-Bit	8-Ch., 10-Bit	59	8-Ch., 10-Bit	SCI, SPI	3.3	40.0	-40 - 105	80-PQFP	MC9S12XA256CAARCT-ND	9.58	8.02	7.51	MC9S12XA256CAARCT	
				8-Ch., 10-Bit	59	8-Ch., 10-Bit	SCI, SPI	3.3	40.0	-40 - 105	80-PQFP	MC9S12XA256CAARTR-ND	5432.48/750			MC9S12XA256CAARTR	
				8-Ch., 10-Bit	119	24-Ch., 10-Bit	SCI, SPI, I2C	5.0	40.0	-40 - 85	144-LQFP	MC9S12XA256CAG-ND	7.75	6.49	6.14	MC9S12XA256CAG	
				8-Ch., 10-Bit	91	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	40.0	-40 - 85	112-LQFP	MC9S12XA256CAL-ND	7.59	6.36	6.01	MC9S12XA256CAL	
				8-Ch., 10-Bit	91	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	40.0	-40 - 105	80-QFP	MC9S12XA256VAA-ND	9.84	8.24	7.80	MC9S12XA256VAA	
				8-Ch., 10-Bit	91	16-Ch., 10-Bit	SCI, SPI, I2C	5.0	40.0	-40 - 105	112-LQFP	MC9S12XA256VAL-ND	9.95	8.34	7.89	MC9S12XA256VAL	
16K	4K	8-Ch., 10-Bit	8-Ch., 10-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	80-QFP	MC9S12XD256CAA-ND	8.12	6.80	6.43	MC9S12XD256CAA		
			8-Ch., 10-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	144-LQFP	MC9S12XD256CAG-ND	8.37	7.01	6.63	MC9S12XD256CAG		
			8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	80-QFP	MC9S12XD256CAL-ND	8.22	6.78	6.51	MC9S12XD256CAL		
			8-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 125	80-QFP	MC9S12XD256MAA-ND	10.32	8.64	8.17	MC9S12XD256MAA		
			8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 125	144-LQFP	MC9S12XD256MAG-ND	10.66	8.93	8.45	MC9S12XD256MAG		
			8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 105	112-LQFP	MC9S12XD256MAL-ND	10.44	8.74	8.27	MC9S12XD256MAL		
	4K	8-Ch., 10-Bit	8-Ch., 8-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 105	80-QFP	MC9S12XD256VAA-ND	9.84	8.24	7.80	MC9S12XD256VAA	
				8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 105	144-LQFP	MC9S12XD256VAL-ND	10.16	8.51	8.05	MC9S12XD256VAL	
				8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	80-QFP	MC9S12XD256VAA-ND	9.94	8.33	7.87	MC9S12XD256VAA	
				8-Ch., 8-Bit	117	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	144-LQFP	MC9S12XH256CAG-ND	8.77	8.05	7.35	MC9S12XH256CAG	
				8-Ch., 8-Bit	86	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	112-LQFP	MC9S12XH256CAL-ND	8.62	7.91	7.22	MC9S12XH256CAL	
				8-Ch., 8-Bit	117	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 105	144-LQFP	MC9S12XH256VAL-ND	9.21	8.45	7.71	MC9S12XH256VAL	
262K	12K	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	11.64	9.75	9.22	MC9S12A256CFUE	
			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	13.50	11.31	10.69	MC9S12DG256MFUE	
			8-Ch., 10-Bit	See Timer	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 125	112-LQFP	MC9S12DG256MPVUE-ND	13.84	11.60	10.97	MC9S12DG256MPVUE	
			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	13.21	11.06	10.46	MC9S12DG256VPVE	
			8-Ch., 10-Bit	8-Ch., 8-Bit	91	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 85	80-QFP	MC9S12DT256CPVE-ND	13.42	11.24	10.63	MC9S12DT256CPVE	
			8-Ch., 10-Bit	7-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, I2C	5.0	25.0	-40 - 85	112-LQFP	MC9S12A512CPVE-ND	13.74	11.50	10.88	MC9S12A512CPVE	
	4K	8-Ch., 10-Bit	8-Ch., 8-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 85	112-LQFP	MC9S12DP512CPVE-ND	13.46	12.28	11.62	MC9S12DP512CPVE	
				8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 125	112-LQFP	MC9S12DP512MPVE-ND	14.81	13.52	12.78	MC9S12DP512MPVE	
				8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	25.0	-40 - 105	112-LQFP	MC9S12DP512VPVE-ND	14.56	13.30	12.57	MC9S12DP512VPVE	
				8-Ch., 8-Bit	91	(2) 8-Ch., 10-Bit	(5) CAN 2.0	5.0	25.0	-40 - 85	112-LQFP	MC9S12DP512CPVERCT-ND	13.65	12.46	11.66	MC9S12DP512CPVERCT	
				8-Ch., 8-Bit	91	(2) 8-Ch., 10-Bit	(5) CAN 2.0	5.0	25.0	-40 - 85	112-LQFP	MC9S12DP512CPVERTR-ND	5624.32/500			MC9S12DP512CPVERTR	
				8-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	80-QFP	MC9S12XD256CAA-ND	10.19	8.54	8.07	MC9S12XD256CAA	
512K	14K	4K	8-Ch., 8-Bit	119	24-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	144-LQFP	MC9S12XD256CAG-ND	10.45	8.76	8.28	MC9S12XD256CAG		
			8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 85	112-LQFP	MC9S12XD256CAL-ND	10.29	8.62	8.15	MC9S12XD256CAL		
			8-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 125	80-QFP	MC9S12XD256MAA-ND	12.04	10.08	9.54	MC9S12XD256MAA		
			8-Ch., 8-Bit	91	16-Ch., 10-Bit	SCI, SPI, CAN, I2C	5.0	40.0	-40 - 125	112-LQFP	MC9S12XD256MAL-ND	12.17	10.19	9.64	MC9S12XD256MAL		
			8-Ch., 8-Bit	59	8-Ch., 10-Bit	SCI, SPI											