

FREESCALE 8-Bit and 16-Bit Microcontrollers



RoHS Compliant This product is RoHS compliant.

MCU / MPU / DSP

Freescale

HC08 CORE MICROCONTROLLERS (CONT.)

HC08MR Family - Includes High Resolution PWM for Three Phase Motor Control

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Development Kit Part No.	Package	Internal RAM (Byte)	Internal FLASH (Byte)	Serial Interface Type	Timer Channels	Bus Freq. (MHz)	Supply Voltage (V) (Max.)	I/O Pins	ADC	Price Each		
Mfr.	Mfr. Part No.											1	25	100
◆	841—MC908MR8CPE	-	PDIP 28	256	8K	SCI	2	8	-	-	10-bit/7-ch	6.61	6.22	3.89
◆	841—MC908MR16CFUE	-	LQFP 64	768	16K	IRSCI, SPI, I2C	4.2	8	5.5	44	10-bit/10-ch	8.26	7.77	4.86
◆	841—MC908MR32CFUE	-	QFP 64	768	32K	SCI, SPI	6	8.2	5	44	10-bit/10-ch	11.10	10.44	6.53

General Purpose, Low Cost, Small Package MCUs

◆ Surface Mount Device

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MOUSER STOCK NO.		Development Kit Part No.	Package	Internal RAM (Byte)	Internal FLASH (Byte)	Serial Interface Type	Timer Channels	Bus Freq. (MHz)	Supply Voltage (V) (Max.)	I/O Pins	ADC	Price Each		
Mfr.	Mfr. Part No.											1	25	100
◆	841—MC908QB8CDWE	-	SOIC 16W	256	8K	SCI, SPI	1	8	5.5	14	10-bit/10-ch	2.72	2.56	1.60
◆	841—MC908QC8CDSE	DEMO908QC16	TSSOP 20	384	8K	SCI, SPI	2.4	8	5.5	24	10-bit/10-ch	4.20	2.67	2.47
◆	841—MC908QC8CDTE	DEMO908QC16	TSSOP 16	384	8K	SCI, SPI	2.4	8	5.5	24	10-bit/10-ch	3.47	3.27	2.04
◆	841—MC908QC8CDXE	DEMO908QC16	SOIC 16W	384	8K	SCI, SPI	2.4	8	5.5	24	10-bit/10-ch	3.43	3.23	2.02
◆	841—MC908QC8CDZE	DEMO908QC16	SOIC 28W	384	8K	SCI, SPI	2.4	8	5.5	24	10-bit/10-ch	3.07	2.89	1.81
◆	841—MC908QC16CDTE	DEMO908QC16	TSSOP 16	512	16K	SCI, SPI	2.4	8	5.5	14	10-bit/10-ch	3.57	3.10	2.10
◆	841—MC908QC16CDZE	DEMO908QC16	SOIC 28	≤512k	8K/16K	ESCI, SPI	2.4	-	-	-	≤10-bit/10-ch	3.60	3.39	2.12
◆	841—MC908QC16MDSE	DEMO908QC16	TSSOP 20	≤512k	8K/16K	ESCI, SPI	2.4	-	-	-	≤10-bit/10-ch	4.50	4.22	2.64
◆	841—MC908QC16VDSE	DEMO908QC16	TSSOP 20	≤512k	8K/16K	ESCI, SPI	2.4	-	-	-	≤10-bit/10-ch	5.15	3.28	3.10

HCS12 AND HCS12X FAMILY-16-BIT MICROCONTROLLERS

Development Kit Part No. M68DKIT912C32
Development Kit Part No. DEMO9S12NE64

Development Kit Part No. DEMO9S12XDT512
Development Kit Part No. M68DKIT912C32

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Freescale Part No.	Package	Internal RAM (Byte)	Internal FLASH (Byte)	EEPROM (Byte)	ADC	Serial Interface Type	Bus Freq. (MHz) (Max)	I/O Pins	Timer Channels	Supply Voltage (V) (Typ)	Price Each		
												1	25	100
S12A Family - General Purpose with I2C														
841-MC9S12A32CFUE	MC9S12A32CFUE	QFP 80	4096	32000	1024	10-bit/8-ch	I2C, SCI, SPI	25	91	8	5	8.90	8.38	7.66
841-MC9S12A64CFUE	MC9S12A64CFUE	QFP 80	4096	65536	1024	10-bit/8-ch	I2C, SCI, SPI	25	91	8	5	12.11	11.40	9.19
841-MC9S12A64CPVE	MC9S12A64CPVE	LQFP 112	4096	65536	1024	10-bit/8-ch	I2C, SCI, SPI	25	59	8	5	12.28	11.56	9.31
841-MC9S12A128CFUE	MC9S12A128CFUE	QFP 80	8000	128000	2000	10-bit/8-ch	I2C, SCI, SPI	25	59	8	5	16.78	15.79	12.83
841-MC9S12A128CPVE	MC9S12A128CPVE	LQFP 112	8000	128000	2000	10-bit/8-ch	I2C, SCI, SPI	25	59	8	5	17.31	16.29	13.12
841-MC9S12A256CFUE	MC9S12A256CFUE	QFP 80	12288	262144	4096	10-bit/8-ch	I2C, SCI, SPI	25	91	8	5	20.49	19.28	15.67
841-MC9S12A256CPVE	MC9S12A256CPVE	LQFP 112	12000	256000	4000	10-bit/8-ch	I2C, SCI, SPI	25	91	8	5	21.04	19.79	16.09
841-MC9S12A512CPVE	MC9S12A512CPVE	LQFP 112	4096	512000	1024	10-bit/8-ch	I2C, SCI, SPI	25	59	8	5	24.18	22.75	20.81
S12B Family - Automotive Industrial with Intermediate Cost CAN														
841-MC9S12B64MFUE	MC9S12B64MFUE	QFP 80	2048	65536	1024	10-bit/8-ch	CAN, I2C, SCI, SPI	25	59	8	5	12.66	11.92	11.04
841-MC9S12B64MPVE	MC9S12B64MPVE	LQFP 112	2048	65536	1024	10-bit/8-ch	CAN, I2C, SCI, SPI	25	59	8	5	13.12	12.35	10.34
841-MC9S12B128MFUE	MC9S12B128MFUE	QFP 80	4096	131072	1024	10-bit/8-ch	CAN, I2C, SCI, SPI	25	59	8	5.5	16.70	15.72	12.77
841-MC9S12B128MPVE	MC9S12B128MPVE	LQFP 112	4096	131072	1024	10-bit/16-ch	CAN, I2C, SCI, SPI	25	91	8	5.5	17.16	16.15	13.12
S12C Family - Low Pin Count, Low Cost CAN														
841-MC9S12C32CFUE16	MC9S12C32CFUE16	QFP 80	2000	32000	-	10-bit/8-ch	SCI, SPI, CAN	25	60	8	5	9.25	8.70	7.07
841-MC9S12C32MFAE16	MC9S12C32MFAE16	LQFP 48	2048	32000	-	10-bit/8-ch	CAN, SCI, SPI	25	60	8	3.3, 5.5	9.60	9.03	7.33
841-MC9S12C32CFAE25	MC9S12C32CFAE25	LQFP 48	2000	32000	-	10-bit/8-ch	SCI, SPI, CAN	25	31	8	5	9.18	8.64	7.02
841-MC9S12C32MFAE25	MC9S12C32MFAE25	LQFP 48	2048	32000	-	10-bit/8-ch	CAN, SCI, SPI	25	60	8	3.3, 5.5	10.22	9.62	7.81
841-MC9S12C32MFUE25	MC9S12C32MFUE25	QFP 80	2048	32000	-	10-bit/8-ch	CAN, SCI, SPI	25	60	8	3.3, 5.5	10.81	10.17	8.26
841-MC9S12C32MPBE25	MC9S12C32MPBE25	LQFP 52	2048	32000	-	10-bit/8-ch	CAN, SCI, SPI	25	60	8	3.3, 5.5	10.09	9.50	7.72
841-MC9S12C64CFAE	MC9S12C64CFAE	LQFP 48	2000	64000	-	10-bit/8-ch	SCI, SPI, CAN	25	60	8	5	11.01	10.36	8.33
841-MC9S12C64MFAE	MC9S12C64MFAE	LQFP 48	4000	64000	-	10-bit/8-ch	CAN, SCI, SPI	25	60	8	3.3, 5.5	12.11	11.40	9.19
841-MC9S12C64MFUE	MC9S12C64MFUE	QFP 80	4000	64000	-	10-bit/8-ch	CAN, SCI, SPI	25	60	8	3.3, 5.5	12.72	11.97	9.64
841-MC9S12C64MPBE	MC9S12C64MPBE	LQFP 52	2000	64000	-	10-bit/8-ch	SCI, SPI, CAN	25	35	8	5	13.75	12.95	9.51
841-MC9S12C96CFUE	MC9S12C96CFUE	QFP 80	4000	96000	-	10-bit/8-ch	SCI, SPI, CAN	25	60	8	5	13.96	11.68	11.54
841-MC9S12C96MFUE	MC9S12C96MFUE	QFP 80	4000	96000	-	10-bit/8-ch	CAN, SCI, SPI	25	60	8	3.3, 5.5	16.06	14.04	11.60
841-MC9S12C128CFAE	MC9S12C128CFAE	LQFP 48	4000	128000	-	10-bit/8-ch	SCI, SPI, CAN	25	31	8	5	13.77	12.95	10.52
841-MC9S12C128CFUE	MC9S12C128CFUE	QFP 80	4000	128000	-	10-bit/8-ch	SCI, SPI, CAN	25	61	8	5	14.32	13.47	10.94
841-MC9S12C128MFAE	MC9S12C128MFAE	LQFP 48	4000	128000	-	10-bit/8-ch	CAN, SCI, SPI	25	60	8	3.3, 5.5	15.14	14.25	11.34
841-MC9S12C128MFUE	MC9S12C128MFUE	QFP 80	4000	128000	-	10-bit/8-ch	CAN, SCI, SPI	25	60	8	3.3, 5.6	15.75	14.82	12.04
841-MC9S12C128MPBE	MC9S12C128MPBE	LQFP 52	4000	128000	-	10-bit/8-ch	CAN, SCI, SPI	25	60	8	3.3, 5.7	15.14	14.25	11.34
S12D Family - Automotive / Industrial with CAN														
841-MC9S12D32MFUE	MC9S12D32MFUE	QFP 80	4096	32000	1024	10-bit/8-ch	CAN 2.0A/B, IIC, SCI, SPI	25	91	8	5	10.77	10.14	9.39
841-MC9S12D64MFUE	MC9S12D64MFUE	QFP 80	4096	65536	1024	10-bit/8-ch	CAN 2.0A/B, IIC, SCI, SPI	25	91	8	5	14.90	14.03	11.89
841-MC9S12D64VFUE	MC9S12D64VFUE	QFP 80	4000	64000	1000	10-bit/8-ch	SCI, SPI, I2C, CAN	25	91	8	5	14.22	13.09	10.88
841-MC9S12DG128CFUE	MC9S12DG128CFUE	QFP-80	8000	128000	2000	10-bit/8-ch	SCI, SPI, I2C, CAN	25	59	8	5	17.40	16.38	13.30
841-MC9S12DG128CPVE	MC9S12DG128CPVE	LQFP-112	8000	128000	2000	10-bit/8-ch	SCI, SPI, I2C, CAN	25	91	8	5	17.95	16.89	13.72
841-MC9S12DG128VPVE	MC9S12DG128VPVE	LQFP 112	8000	128000	2000	10-bit/8-ch	SCI, SPI, I2C, CAN	25	91	8	5	18.85	17.74	14.29
841-MC9S12DG256BCP	MC9S12DG256BCPVE	LQFP-112	12000	256000	4000	10-bit/8-ch	SCI, SPI, I2C, CAN	25	91	8	5	22.17	20.87	16.95
841-MC9S12DG256CFUE	MC9S12DG256CFUE	QFP 80	12000	256000	4000	10-bit/8-ch	SCI, SPI, I2C, CAN	25	91	8	5	21.61	20.33	16.52
841-MC9S12DG256MFUE	MC9S12DG256MFUE	QFP 80	12288	262144	4096	10-bit/8-ch	CAN 2.0A/B, I2C, SCI, SPI	25	91	8	5	23.77	22.37	18.17
841-MC9S12DG256MPVE	MC9S12DG256MPVE	LQFP 112	12288	262144	4096	10-bit/8-ch	CAN 2.0A/B, I2C, SCI, SPI	25	91	8	5	24.38	22.94	18.64
841-MC9S12DJ256CFUE	MC9S12DJ256CFUE	QFP 80	12000	256000	4000	10-bit/8-ch	SCI, SPI, I2C, CAN, J1850	25	59	8	5	23.72	22.32	18.13
841-MC9S12DJ256CPVE	MC9S12DJ256CPVE	LQFP 112	12000	256000	4000	10-bit/8-ch	SCI, SPI, I2C, CAN, J1850	25	91	8	5	24.27	22.84	18.55
841-MC9S12DJ256MFUE	MC9S12DJ256MFUE	QFP 80	12288	262144	4096	10-bit/8-ch	SCI, SPI, I2C, J1850, CAN 2.0A/B	25	59	8	5	26.09	24.55	19.94
841-MC9S12DP512CPVE	MC9S12DP512CPVE	LQFP-112	12000	512000	4000	8-bit/10-ch	SCI, SPI, I2C, CAN, J1850	25	91	8	5	24.76	22.19	18.41
841-MC9S12DP512MPVE	MC9S12DP512MPVE	LQFP 112	12288	512000	4096	10-bit/8-ch	CAN 2.0A/B, IIC, SCI, SPI, J1850	25	91	8	5	28.42	26.74	20.86
841-MC9S12DT256CPVE	MC9S12DT256CPVE	LQFP 112	12000	256000	4000	10-bit/8-ch	SCI, SPI, I2C, CAN	25	91	8	5	23.62	22.23	17.91
841-MC9S12DT256MFUE	MC9S12DT256MFUE	QFP 80	12288	262144	4096	10-bit/8-ch	CAN 2.0A/B, I2C, SCI, SPI	25	91	8	5	25.39	23.89	20.01
841-MC9S12DT256MPVE	MC9S12DT256MPVE	LQFP 112	1288	262144	4096	10-bit/8-ch	CAN 2.0A/B, I2C, SCI, SPI	25	91	8	5	24.13	20.51	19.30

