

# FREESCALE 8-Bit Microcontrollers



RoHS Compliant This product is RoHS compliant.

Freescale MCU / MPU / DSP

## HCS08 CORE MICROCONTROLLERS (CONT.)

### S08DV 8-Bit MCUs with CAN, LIN Master

◆ 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—MC9S08DV16ACL	DEMO9S08DZ60	LQFP 32	1K	16K	CAN, I2C, SCI, SPI	4, 2	20	5.5	26	12-bit/10-ch	4.68	4.40	2.75
◆	841—MC9S08DV16ACLF	DEMO9S08DZ60	LQFP 48	1K	16K	CAN, I2C, SCI, SPI	6, 2	20	5.5	40	12-bit/16-ch	6.61	4.00	3.83
◆	841—MC9S08DV16AML	DEMO9S08DZ60	LQFP 32	1K	16K	CAN, I2C, SCI, SPI	4, 2	20	5.5	26	12-bit/10-ch	5.44	4.83	3.73
◆	841—MC9S08DV32ACL	DEMO9S08DZ60	LQFP 32	2K	32K	CAN, I2C, SCI, SPI	4, 2	20	5.5	40	12-bit/10-ch	5.23	4.92	3.08
◆	841—MC9S08DV32AMLF	DEMO9S08DZ60	LQFP 48	2K	32K	CAN, I2C, SCI, SPI	6, 2	20	5.5	40	12-bit/16-ch	5.76	5.42	3.39
◆	841—MC9S08DV32AMLH	DEMO9S08DZ60	LQFP 64	2K	32K	CAN, I2C, SCI, SPI	6, 2	20	5.5	54	12-bit/16-ch	6.16	5.80	3.63
◆	841—MC9S08DV48ACL	DEMO9S08DZ60	LQFP 48	2K	32K	CAN, I2C, SCI, SPI	6, 2	20	5.5	40	12-bit/16-ch	6.35	4.60	4.40
◆	841—MC9S08DV48ACLH	DEMO9S08DZ60	LQFP 64	2K	48K	CAN, I2C, SCI, SPI	6, 2	20	5.5	54	12-bit/16-ch	7.76	4.91	4.70
◆	841—MC9S08DV48AMLH	DEMO9S08DZ60	LQFP 64	2K	48K	CAN, I2C, SCI, SPI	6, 2	20	5.5	54	12-bit/16-ch	6.45	5.41	5.17
◆	841—MC9S08DV60ACLF	DEMO9S08DZ60	LQFP 48	3K	60K	CAN, I2C, SCI, SPI	6, 2	20	5.5	40	12-bit/16-ch	6.31	5.61	4.33
◆	841—MC9S08DV60ACLH	DEMO9S08DZ60	LQFP 32	3K	60K	CAN, I2C, SCI, SPI	4, 2	20	5.5	54	12-bit/10-ch	6.70	5.96	4.60

### S08DZ 8-bit MCUs with CAN, LIN Master, EEPROM

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—	MC9S08DZ16ACL	DEMO9S08DZ60	LQFP 32	1K	16K	CAN, I2C, SCI, SPI	4, 2	20	5.5	26	12-bit/10-ch	4.97	4.68	2.93
841—	MC9S08DZ16ACLF	DEMO9S08DZ60	LQFP 48	1K	16K	CAN, I2C, SCI, SPI	6, 2	20	5.5	40	12-bit/16-ch	5.14	4.83	3.02
841—	MC9S08DZ16AML	DEMO9S08DZ60	LQFP 32	1K	16K	CAN, I2C, SCI, SPI	4, 2	20	5.5	26	12-bit/10-ch	5.79	5.14	3.64
841—	MC9S08DZ16AMLF	DEMO9S08DZ60	LQFP 48	1K	16K	CAN, I2C, SCI, SPI	6, 2	20	5.5	40	12-bit/16-ch	5.67	5.33	3.34
841—	MC9S08DZ32ACL	DEMO9S08DZ60	LQFP 32	2K	32K	CAN, I2C, SCI, SPI	4, 2	20	5.5	26	12-bit/10-ch	5.34	5.02	3.14
841—	MC9S08DZ32ACLH	DEMO9S08DZ60	LQFP 64	2K	32K	CAN, I2C, SCI, SPI	6, 2	20	5.5	54	12-bit/24-ch	6.66	4.84	4.62
841—	MC9S08DZ32AMLF	DEMO9S08DZ60	LQFP 48	2K	32K	CAN, I2C, SCI, SPI	6, 2	20	5.5	40	12-bit/16-ch	6.09	5.71	3.58
841—	MC9S08DZ32AMLH	DEMO9S08DZ60	LQFP 64	2K	32K	CAN, I2C, SCI, SPI	6, 2	20	5.5	54	12-bit/24-ch	6.46	6.08	3.80
841—	MC9S08DZ48ACLF	DEMO9S08DZ60	LQFP 48	3K	48K	CAN, I2C, SCI, SPI	6, 2	20	5.5	40	12-bit/16-ch	6.66	4.84	4.62
841—	MC9S08DZ48ACLH	DEMO9S08DZ60	LQFP 64	3K	48K	CAN, I2C, SCI, SPI	6, 2	20	5.5	54	12-bit/24-ch	7.08	5.14	4.92
841—	MC9S08DZ48AML	DEMO9S08DZ60	LQFP 32	3K	48K	CAN, I2C, SCI, SPI	4, 2	20	5.5	26	-	6.63	5.89	4.54
841—	MC9S08DZ48AMLF	DEMO9S08DZ60	LQFP 48	3K	48K	CAN, I2C, SCI, SPI	6, 2	20	5.5	40	12-bit/16-ch	6.84	6.08	4.69
841—	MC9S08DZ48AMLH	DEMO9S08DZ60	LQFP 64	3K	48K	CAN, I2C, SCI, SPI	4, 2	20	5.5	54	-	7.27	6.46	4.98
841—	MC9S08DZ60ACL	DEMO9S08DZ60	LQFP 32	4K	60K	CAN, I2C, SCI, SPI	4, 2	20	5.5	26	12-bit/10-ch	6.07	5.71	3.57
841—	MC9S08DZ60ACLF	DEMO9S08DZ60	LQFP 48	4K	60K	CAN, I2C, SCI, SPI	6, 2	20	5.5	40	12-bit/16-ch	6.26	5.87	3.67
841—	MC9S08DZ60ACLH	DEMO9S08DZ60	LQFP 64	4K	60K	CAN, I2C, SCI, SPI	6, 2	20	5.5	54	12-bit/24-ch	6.61	6.21	3.89
841—	MC9S08DZ60AML	DEMO9S08DZ60	LQFP 32	4K	60K	CAN, I2C, SCI, SPI	4, 2	20	5.5	26	-	6.68	6.27	3.92
841—	MC9S08DZ60AMLF	DEMO9S08DZ60	LQFP 48	4K	60K	CAN, I2C, SCI, SPI	6, 2	20	5.5	40	12-bit/16-ch	6.86	6.46	4.04
841—	MC9S08DZ60AMLH	DEMO9S08DZ60	LQFP 64	4K	60K	CAN, I2C, SCI, SPI	6, 2	20	5.5	54	12-bit/24-ch	7.27	6.84	4.28
841—	MC9S08DZ96CLF	DEMO9S08DZ60	LQFP 48	4K	96K	CAN, I2C, SCI, SPI	8, 4	20	5.5	40	12-bit/16-ch	8.34	7.67	6.49
841—	MC9S08DZ96MLH	DEMO9S08DZ60	LQFP 64	6K	96K	CAN, I2C, SCI, SPI	8, 4	20	5.5	54	12-bit/24-ch	9.03	7.52	6.88
841—	MC9S08DZ96MLL	DEMO9S08DZ60	LQFP 100	6K	96K	CAN, I2C, SCI, SPI	8, 4	20	5.5	88	12-bit/24-ch	9.93	7.40	7.00
841—	MC9S08DZ128MLF	DEMO9S08DZ60	LQFP 48	8K	128K	CAN, I2C, SCI, SPI	8, 4	20	5.5	40	12-bit/16-ch	8.34	7.41	5.72
841—	MC9S08DZ128MLH	DEMO9S08DZ60	LQFP 64	8K	128K	CAN, I2C, SCI, SPI	8, 4	20	5.5	54	12-bit/24-ch	8.86	7.87	6.08
841—	MC9S08DZ128MLL	DEMO9S08DZ60	LQFP 100	8K	128K	CAN, I2C, SCI, SPI	8, 4	20	5.5	88	12-bit/24-ch	9.64	8.56	6.10

### S08EL/S08SL with Embedded Slave LIN Controller (SLIC)

Freescale's S08EL and S08SL 8-bit microcontrollers with embedded slave Local Interconnect Network (LIN) interface controller (SLIC) and EEPROM help to increase LIN slave performance and reduce development time. Freescale Semiconductor's 8-bit EL and SL families of microcontrollers (MCUs) are designed for LIN slave and general market applications. The EL family is positioned as higher end, offering higher memory and more peripherals, while the SL family is intended for more cost-sensitive applications.

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Mfr.	Mfr. Part No.											1	25	100
841—	MC9S08SL8CTL	DEMO9S08EL32	TSSOP 28	512	8	SCI, SPI, I2C, SLIC	2	20	5.5	22	10-bit/16-ch	2.77	2.60	1.63
841—	MC9S08SL8CTJ	DEMO9S08EL32	TSSOP 20	512	8	SCI, SPI, I2C, SLIC	2	20	5.5	16	10-bit/12-ch	2.91	2.74	1.72
841—	MC9S08EL16CTL	DEMO9S08EL32	TSSOP 28	1K	16	SLIC, SCI, SPI, I2C	4, 2	20	5.5	22	10-bit/16-ch	3.15	2.97	1.86
841—	MC9S08EL16CTJ	DEMO9S08EL32	TSSOP 20	1K	16	SLIC, SCI, SPI, I2C	4, 2	20	5.5	16	10-bit/12-ch	3.28	3.09	1.93
841—	MC9S08SL16CTL	DEMO9S08EL32	TSSOP 28	512	16	SCI, SPI, I2C, SLIC	2	20	5.5	22	10-bit/16-ch	3.04	2.86	1.79
841—	MC9S08SL16CTJ	DEMO9S08EL32	TSSOP 20	512	16	SCI, SPI, I2C, SLIC	2	20	5.5	16	10-bit/12-ch	3.38	3.00	2.32
841—	MC9S08EL32CTL	DEMO9S08EL32	TSSOP 28	1K	32	SLIC, SCI, SPI, I2C	4, 2	20	5.5	22	10-bit/16-ch	3.69	3.47	2.17
841—	MC9S08EL32CTJ	DEMO9S08EL32	TSSOP 20	1K	32	SLIC, SCI, SPI, I2C	4, 2	20	5.5	16	10-bit/12-ch	3.83	3.61	2.26

### S08GB/GT Family - General Purpose 1.8-Volt Automotive/Industrial

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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—	MC9S08GT8ACFB	M68DEMO908GB60E	QFP 44	1K	8K	IRSCI, SPI, I2C	4, 2	20	1.8	36	10-bit/8-ch	2.57	2.41	1.75
841—	MC9S08GT8ACFC	M68DEMO908GB60E	QFN 32	1K	8K	IRSCI, SPI, I2C	4, 2	20	1.8	24	10-bit/8-ch	2.15	1.88	1.65
841—	MC9S08GT8ACFD	M68DEMO908GB60E	QFN 48	1K	8K	IRSCI, SPI, I2C	4, 2	20	1.8	39	10-bit/4-ch	2.69	2.53	1.75
841—	MC9S08GT8AMFB	M68DEMO908GB60E	QFP 44	1K	8K	IRSCI, SPI, I2C	4, 2	20	1.8	36	10-bit/8-ch	3.01	2.84	1.94
841—	MC9S08GT8AMFC	M68DEMO908GB60E	QFN 32	1K	8K	IRSCI, SPI, I2C	4, 2	20	1.8	24	10-bit/8-ch	2.35	2.12	1.87
841—	MC9S08GT8AMFD	M68DEMO908GB60E	QFN 48	1K	8K	IRSCI, SPI, I2C	4, 2	20	1.8	39	10-bit/4-ch	2.91	2.74	1.90
841—	MC9S08GT16ACB	M68DEMO908GB60E	PSDIP 42	2K	16K	IRSCI, SPI, I2C	4, 2	20	1.8	34	10-bit/8-ch	3.12	2.93	2.35
841—	MC9S08GT16ACFB	M68DEMO908GB60E	QFP 44	2K	16K	IRSCI, SPI, I2C	4, 2	20	1.8	36	10-bit/8-ch	3.12	2.93	2.35

