

FREESCALE 8-Bit Microcontrollers



RoHS Compliant This product is RoHS compliant.

HCS08 CORE MICROCONTROLLERS (CONT.)

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

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Development Kit Part No.	Package	Internal RAM (KByte)	Internal FLASH (KByte)	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	—MC9S08GT16ACFCE	M68DEMO908GB60E	QFN 32	2	16	IRSCI, SPI, I2C	4, 2	20	1.8	24	10-bit/8-ch	3.12	2.93	1.84
841	—MC9S08GT16ACFDE	M68DEMO908GB60E	QFN 48	2	16	IRSCI, SPI, I2C	4, 2	20	1.8	39	10-bit/4-ch	3.12	2.93	2.35
841	—MC9S08GT16AMFBE	M68DEMO908GB60E	QFP 44	2	16	IRSCI, SPI, I2C	4, 2	20	1.8	36	10-bit/8-ch	3.43	3.23	2.50
841	—MC9S08GT16AMFCE	M68DEMO908GB60E	QFN 32	2	16	IRSCI, SPI, I2C	4, 2	20	1.8	24	10-bit/8-ch	3.43	3.23	2.02
841	—MC9S08GT16AMFDE	M68DEMO908GB60E	QFN 48	2	16	IRSCI, SPI, I2C	4, 2	20	1.8	39	10-bit/4-ch	3.64	3.42	2.32
841	—MC9S08GT32ACFBE	M68DEMO908GB60E	QFP 44	2	32	I2C, SCI, SPI	2, 2	20	3.6	36	10-bit/8-ch	3.97	3.38	3.10
841	—MC9S08GT32ACFDE	M68DEMO908GB60E	QFN 48	2	32	I2C, SCI, SPI	2, 2	20	3.6	39	10-bit/8-ch	3.97	3.38	3.10
841	—MC9S08GT60ACFBE	M68DEMO908GB60E	QFP 44	4	60	I2C, SCI, SPI	2, 2	20	3.6	36	10-bit/8-ch	6.70	6.30	3.94
841	—MC9S08GT60ACFDE	M68DEMO908GB60E	QFN 48	4	60	I2C, SCI, SPI	3, 2	20	3.6	39	10-bit/8-ch	5.50	5.00	4.05
841	—MC9S08GB32ACFUE	M68DEMO908GB60E	LQFP 64	2	32	I2C, SCI, SPI	3, 5	20	3.6	56	10-bit/16-ch	4.50	4.00	3.50
841	—MC9S08GB60ACFUE	M68DEMO908GB60E	LQFP 64	4	60	I2C, SCI, SPI	3, 5	20	3.6	56	10-bit/8-ch	7.25	6.82	4.26

S08JS Family - Full-Speed 2.0 USB Device Controller and Integrated USB Transceiver

The JS16 extends Freescale's entry-level 8-bit embedded USB controller family with up to 16KB of flash memory and a full-speed USB 2.0 device controller. The JS16 also has several features for system protection, such as low voltage detection and a Computer Operating Properly (COP) module. The JS16 device is ideal for a variety of industrial control applications and consumer devices, including PC peripherals and remote controls.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Development Kit Part No.	Package	Internal RAM (Byte)	Internal FLASH (KByte)	Serial Interface Type	Timer Channels	Bus Freq. (MHz)	Supply Voltage (V) (Max.)	I/O Pins	Price Each		
Mfr.	Mfr. Part No.										1	25	100
841	—MC9S08JS8CFK	DEMO9S08JS16	QFN 24 EP	512	16	SCI, SPI	2	24	5.5	14	1.42	1.22	1.08
841	—MC9S08JS16LCFK	DEMO9S08JS16	QFN-EP-24	512	16	SCI, SPI	1	24	5.5	14	1.73	1.49	1.16
841	—MC9S08JS8CWJ	DEMO9S08JS16	SOIC 20W	512	16	SCI, SPI	2	24	5.5	14	1.61	1.41	1.08
841	—MC9S08JS16CFK	DEMO9S08JS16	QFN 24 EP	512	16	SCI, SPI	2	24	5.5	14	1.71	1.44	1.30
841	—MC9S08JS16CWJ	DEMO9S08JS16	SOIC 20W	512	16	SCI, SPI	2	24	5.5	14	1.75	1.62	1.32

S08LC Family - Integrated LCD Driver and Charge Pump

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Development Kit Part No.	Package	Internal RAM (KByte)	Internal FLASH (KByte)	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	—MC9S08LC36LK	DEMO9S08LC60	LQFP 80	2.5	36	I2C, SCI, SPI	2	20	3.6	23	10-bit/8-ch	4.75	4.44	4.12

S08LG Family - Integrated LCD Driver

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Development Kit Part No.	Package	Internal RAM (KByte)	Internal FLASH (KByte)	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	—MC9S08LG16CLH	DEMO9S08LG32	LQFP 64	2	18	I2C, SCI, SPI	6, 2	20	5.5	53	12-bit/12-ch	2.71	2.60	2.00
841	—MC9S08LG16CLF	DEMO9S08LG32	LQFP 48	2	18	I2C, SCI, SPI	6, 2	20	5.5	39	12-bit/9-ch	2.60	2.50	2.00
841	—MC9S08LG32CLK	DEMO9S08LG32	LQFP 80	2	32	I2C, SCI, SPI	6, 2	20	5.5	69	12-bit/16-ch	3.19	2.88	2.51
841	—MC9S08LG32CLH	DEMO9S08LG32	LQFP 64	2	32	I2C, SCI, SPI	6, 2	20	5.5	53	12-bit/12-ch	2.94	2.50	2.25
841	—MC9S08LG32CLF	DEMO9S08LG32	LQFP 48	2	32	I2C, SCI, SPI	6, 2	20	5.5	39	12-bit/9-ch	2.71	2.60	2.00

S08LL Ultra Low-Power MCU with Integrated LCD Driver

Freescale introduces the first S08 ultra-low-power MCU with LCD driver. The MC9S08LL16/8 helps you reach your target performance levels while minimizing power consumption in your design, demonstrating extreme energy efficiency for ultra-long operation in battery-powered applications.

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MOUSER STOCK NO.		Development Kit Part No.	Package	Internal RAM (KByte)	Internal FLASH (KByte)	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	—MC9S08LL8CGT	DEMO9S08LL16	QFN 48 EP	2	8	I2C, SCI, SPI	2	10	3.6	31	12-bit/8-ch	2.15	1.88	1.65
841	—MC9S08LL16CGT	DEMO9S08LL16	QFN 48 EP	2	16	I2C, SCI, SPI	2	10	3.6	31	12-bit/8-ch	2.15	1.88	1.65
841	—MC9S08LL36CLH	DEMO9S08LL16	LQFP 64	4	36	I2C, SCI, SPI	2	20	3.6	38	12-bit/10-ch	2.94	2.50	2.25
841	—MC9S08LL64CLH	DEMO9S08LL16	LQFP 64	4	64	I2C, SCI, SPI	2	20	3.6	38	12-bit/10-ch	3.61	3.11	2.75
841	—MC9S08LL64CLF	DEMO9S08LL16	LQFP 80	4	64	I2C, SCI, SPI	2	20	3.6	64	12-bit/10-ch	3.97	3.38	3.10
841	—MC9S08LL8CLF	DEMO9S08LL16	LQFP 48	2	8	I2C, SCI, SPI	2	10	3.6	31	12-bit/8-ch	2.15	1.88	1.65
841	—MC9S08LL16CLF	DEMO9S08LL16	LQFP 48	2	16	I2C, SCI, SPI	2	10	3.6	38	12-bit/8-ch	2.15	1.88	1.65
841	—MC9S08LL16CLH	DEMO9S08LL16	LQFP 64	2	16	I2C, SCI, SPI	2	10	3.6	38	12-bit/8-ch	2.40	2.20	1.88

S08MP: 8-bit Motor Control Microcontrollers

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Development Kit Part No.	Package	Internal RAM (KByte)	Internal FLASH (KByte)	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	—MC9S08MP16VLC	DEMO9S08MP16	LQFP-32	1	16	SCI	2, 6	25	5.5	25	12-bit/13-ch	2.02	1.81	1.47
841	—MC9S08MP16VLF	DEMO9S08MP16	LQFP-48	1	16	SCI	2, 6	25	5.5	40	12-bit/13-ch	2.02	1.81	1.47
841	—S9S08MP16E2MLF	DEMO9S08MP16	LQFP-48	1	16	SCI	2, 6	20	5.5	40	12-bit/13-ch	4.55	2.75	2.60

S08QA Family - Low Cost, High-Performance 8-Bit MCUs

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	Internal RAM (KByte)	Internal FLASH (KByte)	Timer Channels	Bus Freq. (MHz)	Supply Voltage (V) (Max.)	I/O Pins	ADC	Price Each		
Mfr.	Mfr. Part No.									1	25	100
841	—MC9S08QA2CDNE	SOIC 8	160	2	1	10	3.6	5	10-bit/4-ch	1.12	1.05	.84
841	—MC9S08QA2CFQE	QFN-D 8EP	160	2	1	10	3.6	5	10-bit/4-ch	1.15	1.08	.68
841	—MC9S08QA2CPAE	PDIP 8	160	2	1	10	3.6	5	10-bit/4-ch	1.21	1.14	.79
841	—MC9S08QA4CDNE	SOIC 8	256	4	1	10	3.6	5	10-bit/4-ch	1.30	1.21	.83
841	—MC9S08QA4CFQE	QFN-D 8EP	256	4	1	10	3.6	5	10-bit/4-ch	1.34	1.19	.92
841	—MC9S08QA4CPAE	PDIP 8	256	4	1	10	3.6	5	10-bit/4-ch	1.21	1.14	.78

S08QB - Low Power 8-Bit Microcontroller Family

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Development Kit Part No.	Package	Internal RAM (KByte)	Internal FLASH (KByte)	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	—MC9S08QB4CGK	DEMO9S08QB8	QFN 24 EP	4	256	SCI	1, 1	10	3.6	20	8-bit/12-ch	1.68	1.58	.993
841	—MC9S08QB4CWL	DEMO9S08QB8	SOIC 28W	4	256	SCI	1, 1	10	3.6	24	8-bit/12-ch	1.70	1.58	.99
841	—MC9S08QB8CTG	DEMO9S08QB8	TSSOP 16	8	512	SCI	1, 1	10	3.6	14	8-bit/12-ch	1.70	1.60	1.00
841	—MC9S08QB8CGK	DEMO9S08QB8	QFN 24 EP	8	512	SCI	1, 1	10	3.6	20	8-bit/12-ch	1.21	1.04	.82
841	—MC9S08QB8CWL	DEMO9S08QB8	SOIC 28W	8	512	SCI	1, 1	10	3.6	24	8-bit/12-ch	1.50	1.27	1.10