

FREESCALE 8-Bit Microcontrollers



This product is RoHS compliant.



MCU / MPU / DSP
Freescale

HCS08 CORE MICROCONTROLLERS (Cont.)

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

For quantities 250 and up, 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	50	100	
841	—	MC9S08GT16ACFCFE	M68DEMO908GB60E	QFN 32	2K	16K	IRSCI, SPI, I2C	4, 2	20	1.8	24	10-bit / 8-ch				
841	—	MC9S08GT16ACFDE	M68DEMO908GB60E	QFN 48	2K	16K	IRSCI, SPI, I2C	4, 2	20	1.8	39	10-bit / 4-ch				
841	—	MC9S08GT16AMFBE	M68DEMO908GB60E	QFP 44	2K	16K	IRSCI, SPI, I2C	4, 2	20	1.8	36	10-bit / 8-ch				
841	—	MC9S08GT16AMFCE	M68DEMO908GB60E	QFN 32	2K	16K	IRSCI, SPI, I2C	4, 2	20	1.8	24	10-bit / 8-ch				
841	—	MC9S08GT16AMFDE	M68DEMO908GB60E	QFN 48	2K	16K	IRSCI, SPI, I2C	4, 2	20	1.8	39	10-bit / 4-ch				
841	—	MC9S08GT32ACFBE	M68DEMO908GB60E	QFP 44	2K	32K	I2C, SCI, SPI	2, 2	20	3.6	36	10-bit / 8-ch				
841	—	MC9S08GT32ACFDE	M68DEMO908GB60E	QFN 48	2K	32K	I2C, SCI, SPI	2, 2	20	3.6	39	10-bit / 8-ch				
841	—	MC9S08GT60ACFBE	M68DEMO908GB60E	QFP 44	4K	60K	I2C, SCI, SPI	2, 2	20	3.6	36	10-bit / 8-ch				
841	—	MC9S08GT60ACFDE	M68DEMO908GB60E	QFN 48	4K	60K	I2C, SCI, SPI	3, 2	20	3.6	39	10-bit / 8-ch				
841	—	MC9S08GB32ACFUE	M68DEMO908GB60E	LQFP 64	2K	32K	I2C, SCI, SPI	3, 5	20	3.6	56	10-bit / 16-ch				
841	—	MC9S08GB60ACFUE	M68DEMO908GB60E	LQFP 64	4K	60K	I2C, SCI, SPI	3, 5	20	3.6	56	10-bit / 8-ch				

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 16 KB 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 Property (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 250 and up, call for quote.

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Mfr.	Mfr. Part No.										1	25	50	100	
841	—	MC9S08JS8CFK	DEMO9S08JS16	QFN 24 EP	512	16	SCI, SPI	2	24	5.5	14				
841	—	MC9S08JS8CJWJ	DEMO9S08JS16	SOIC 20W	512	16	SCI, SPI	2	24	5.5	14				
841	—	MC9S08JS16CFK	DEMO9S08JS16	QFN 24 EP	512	16	SCI, SPI	2	24	5.5	14				
841	—	MC9S08JS16CJWJ	DEMO9S08JS16	SOIC 20W	512	16	SCI, SPI	2	24	5.5	14				

S08LC Family - Integrated LCD Driver and Charge Pump

For quantities 250 and up, 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	50	100	
841	—	MC9S08LC36LK	DEMO9S08LC60	LQFP 80	2.5k	36k	I2C, SCI, SPI	2	20	3.6	23	10-bit / 8-ch				
841	—	MC9S08LC60LK	DEMO9S08LC60	LQFP 80	4k	60k	I2C, SCI, SPI	2	20	3.6	24	12-bit / 8-ch				

S08LG Family - Integrated LCD Driver

For quantities 250 and up, 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	50	100	
841	—	MC9S08LG16CLH	DEMO9S08LG32	LQFP 64	2	18	SCI, SPI, I2C	6, 2	20	5.5	53	12-bit / 12-ch				
841	—	MC9S08LG16CLF	DEMO9S08LG32	LQFP 48	2	18	SCI, SPI, I2C	6, 2	20	5.5	39	12-bit / 9-ch				
841	—	MC9S08LG32CLH	DEMO9S08LG32	LQFP 80	2	32	SCI, SPI, I2C	6, 2	20	5.5	69	12-bit / 16-ch				
841	—	MC9S08LG32CLF	DEMO9S08LG32	LQFP 64	2	32	SCI, SPI, I2C	6, 2	20	5.5	53	12-bit / 12-ch				
841	—	MC9S08LG32CLF	DEMO9S08LG32	LQFP 48	2	32	SCI, SPI, I2C	6, 2	20	5.5	39	12-bit / 9-ch				

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



For quantities 250 and up, call for quote.

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Mfr.	Mfr. Part No.											1	25	50	100	
841	—	MC9S08LL8CGT	DEMO9S08LL16	QFN 48 EP	2	8	SCI, SPI, I2C	2	10	3.6	31	12-bit / 8-ch				
841	—	MC9S08LL16CGT	DEMO9S08LL16	QFN 48 EP	2	16	SCI, SPI, I2C	2	10	3.6	31	12-bit / 8-ch				
841	—	MC9S08LL16CLH	DEMO9S08LL16	LQFP 64	4	36	SCI, SPI, I2C	2	20	3.6	38	12-bit / 10-ch				
841	—	MC9S08LL16CLF	DEMO9S08LL16	LQFP 64	4	64	SCI, SPI, I2C	2	20	3.6	38	12-bit / 10-ch				
841	—	MC9S08LL16CLH	DEMO9S08LL16	LQFP 80	4	64	SCI, SPI, I2C	2	20	3.6	64	12-bit / 10-ch				
841	—	MC9S08LL16CLF	DEMO9S08LL16	LQFP 48	2	8	SCI, SPI, I2C	2	10	3.6	31	12-bit / 8-Ch				
841	—	MC9S08LL16CLF	DEMO9S08LL16	LQFP 48	2	16	SCI, SPI, I2C	2	10	3.6	38	12-bit / 8-Ch				
841	—	MC9S08LL16CLH	DEMO9S08LL16	LQFP 64	2	16	SCI, SPI, I2C	2	10	3.6	38	12-bit / 8-Ch				

S08MP: 8-bit Motor Control Microcontrollers

For quantities 250 and up, 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	50	100	
841	—	MC9S08MP16VLC	DEMO9S08MP16	LQFP-32	1	16	SCI	2, 6	25	5.5	25	12-bit / 13-ch				
841	—	MC9S08MP16VLF	DEMO9S08MP16	LQFP-48	1	16	SCI	2, 6	25	5.5	40	12-bit / 13-ch				
841	—	MC9S08MP16VWL	DEMO9S08MP16	SOIC-28W	1	16	SCI	2, 6	25	5.5	22	12-bit / 13-ch				
841	—	S9S08MP16EZMLF	DEMO9S08MP16	LPFP-48	1	16	SCI	2, 6	20	5.5	40	12-bit / 13-ch				

S08QA Family - Low Cost, High-Performance 8-Bit MCU's

For quantities 250 and up, call for quote.

MOUSER STOCK NO.		Package	Internal RAM (Byte)	Internal FLASH (Byte)	Timer Channels	Bus Freq. (MHz)	Supply Voltage (V) (Max.)	I/O Pins	ADC	Price Each				
Mfr.	Mfr. Part No.									1	25	50	100	
841	—	MC9S08QA2CDNE	SOIC 8	160	2K	1	10	3.6	5	10-bit / 4-ch				
841	—	MC9S08QA2CFQE	QFN-D 8EP	160	2K	1	10	3.6	5	10-bit / 4-ch				
841	—	MC9S08QA2CPAE	PDIP 8	160	2K	1	10	3.6	5	10-bit / 4-ch				
841	—	MC9S08QA4CDNE	SOIC 8	256	4K	1	10	3.6	5	10-bit / 4-ch				
841	—	MC9S08QA4CFQE	QFN-D 8EP	256	4K	1	10	3.6	5	10-bit / 4-ch				
841	—	MC9S08QA4CPAE	PDIP 8	256	4K	1	10	3.6	5	10-bit / 4-ch				

S08QB - Low Power 8-Bit Microcontroller Family

For quantities 250 and up, 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	50	100	
841	—	MC9S08QB4CGK	DEMO9S08QB8	QFN 24 EP	4	256	SCI	1, 1	10	3.6	20	8-bit / 12-ch				
841	—	MC9S08QB4CWL	DEMO9S08QB8	SOIC 28W	4	256	SCI	1, 1	10	3.6	24	8-bit / 12-ch				
841	—	MC9S08QB8CTG	DEMO9S08QB8	TSSOP 16	8	512	SCI	1, 1	10	3.6	14	8-bit / 12-ch				
841	—	MC9S08QB8CGK	DEMO9S08QB8	QFN 24 EP	8	512	SCI	1, 1	10	3.6	20	8-bit / 12-ch				
841	—	MC9S08QB8CWL	DEMO9S08QB8	SOIC 28W	8	512	SCI	1, 1	10	3.6	24	8-bit / 12-ch				