

# FREESCALE 8-Bit Microcontrollers



RoHS Compliant This product is RoHS compliant.

## HCS08 CORE MICROCONTROLLERS (CONT.)

### S08SH 5-Volt 8-Bit MCUs with SCI, SPI, ADC and Analog Comparators

The S08SH family offers a new low-end option for applications in the 5 volt range

For quantities greater than listed, call for quote.

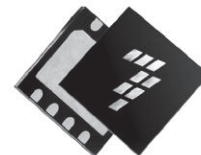
MOUSER STOCK NO.		Development Kit Part No.	Package	Internal RAM (Byte)	Internal FLASH (Byte)	Serial Interface Type	Timer Channels	Bus Freq. (MHz)	Supply Voltage (V) (Max.)	I/O Pins	ADC	Price Each		
Mfr.	Mfr. Part No.											1	25	100
841	—MC9S08SH8CFK	DEMO9S08SH	QFN 24 EP	512	8K	SPI, I2C, SCI	1, 2	20	5.5	17	10-bit/12-ch	1.61	1.41	1.08
841	—MC9S08SH8CPJ	DEMO9S08SH8	PDIP 20	512	8K	SPI, I2C, SCI	1, 2	20	5.5	17	10-bit/12-ch	1.71	1.44	1.30
841	—MC9S08SH8CSC	DEMO9S08SH8	SOIC 8	512	8K	I2C	1, 1	20	5.5	4	10-bit/12-ch	1.50	1.27	1.10
841	—MC9S08SH8CTG	DEMO9S08SH8	TSSOP 16	512	8K	SPI, I2C, SCI	1, 2	20	5.5	13	10-bit/12-ch	1.75	1.60	1.45
841	—MC9S08SH8CTJ	DEMO9S08SH8	TSSOP 20	512	8K	SPI, I2C, SCI	1, 2	20	5.5	17	10-bit/12-ch	1.71	1.44	1.30
841	—MC9S08SH8CJWJ	DEMO9S08SH8	SOIC 20W	512	8K	SPI, I2C, SCI	1, 2	20	5.5	17	10-bit/12-ch	1.70	1.60	1.40
841	—MC9S08SH8MPJ	DEMO9S08SH8	PDIP 20	512	8K	SPI, I2C, SCI	1, 2	20	5.5	17	10-bit/12-ch	1.81	1.60	1.42
841	—MC9S08SH8MSC	DEMO9S08SH8	SOIC 8	512	8K	I2C	1, 1	20	5.5	4	10-bit/12-ch	1.70	1.60	1.40
841	—MC9S08SH8MTG	DEMO9S08SH8	TSSOP 16	512	8K	SPI, I2C, SCI	1, 2	20	5.5	13	10-bit/12-ch	1.78	1.65	1.30
841	—MC9S08SH8MTJ	DEMO9S08SH8	TSSOP 20	512	8K	SPI, I2C, SCI	1, 2	20	5.5	17	10-bit/12-ch	1.81	1.60	1.42
841	—MC9S08SH16CTG	DEMO9S08SH32	TSSOP 16	1K	16K	SPI, I2C, SCI	1, 2	20	5.5	13	10-bit/8-ch	2.02	1.81	1.47
841	—MC9S08SH16CTJ	DEMO9S08SH32	TSSOP 20	1K	16K	SPI, I2C, SCI	1, 2	20	5.5	17	10-bit/16-ch	2.15	1.88	1.65
841	—MC9S08SH16CTL	DEMO9S08SH32	TSSOP 28	1K	16K	SPI, I2C, SCI	1, 2	20	5.5	23	10-bit/12-ch	2.15	1.88	1.65
841	—MC9S08SH16CWL	DEMO9S08SH32	SOIC 28W	1K	16K	SPI, I2C, SCI	1, 2	20	5.5	23	10-bit/16-ch	2.10	1.82	1.46
841	—MC9S08SH32CTG	DEMO9S08SH32	TSSOP 16	1K	32K	SPI, I2C, SCI	1, 2	20	5.5	13	10-bit/8-ch	2.15	1.88	1.65
841	—MC9S08SH32CTJ	DEMO9S08SH32	TSSOP 20	1K	32K	SPI, I2C, SCI	1, 2	20	5.5	17	10-bit/16-ch	2.35	2.12	1.87
841	—MC9S08SH32CTL	DEMO9S08SH32	TSSOP 28	1K	32K	SPI, I2C, SCI	1, 2	20	5.5	23	10-bit/12-ch	2.40	2.20	1.88
841	—MC9S08SH32CWL	DEMO9S08SH32	SOIC 28W	1K	32K	SPI, I2C, SCI	1, 2	20	5.5	23	10-bit/16-ch	2.35	2.12	1.87

## HC08 CORE MICROCONTROLLERS

Frees' HC08 Family of 8-bit microcontrollers are small, general purpose, low-power and feature rich. The HC08 Core products are highly integrated, general purpose devices with ADC, analog comparator, multiple communications options, timers, and on-chip ICE.

From a basic bare-bones controllers in a tiny 8-pin quad flat non-leaded (QFN) package to feature-rich silicon in a 64-lead quad flat package (QFP), the HC08 MCU is an industry workhorse that can flaunt an impressive array of peripherals.

- 8 or 10-bit analog-to-digital converters (ADCs)
- Multichannel timers
- A wide variety of communications protocol support, including universal serial bus (USB), controller area network (CAN), local interconnect network (LIN), J1850 and radio frequency (RF)



### HC08EY Family - Low Cost, High-Performance M68HC08 8-Bit MCU

◆ 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	—MC908EY16AMFJE	-	LQFP 32	512	16K	SPI, SCI	2	8	5.5	24	10-bit/8-ch	7.99	7.52	4.70

### HC08GZ Family - High-end 8-Bit MCU with up to 60KB Flash, 2KB RAM, CAN

◆ 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	—MC908GZ16CFAE	-	LQFP 48	1k	16K	SPI, SCI, CAN	2.2	8	5.5	37	10-bit/16-ch	7.71	7.26	4.54
◆ 841	—MC908GZ32CFAE	DEMO908GZ60E	LQFP 48	1500	32K	CAN, SPI, SCI	2	8	5.5	37	10-bit/8-ch	8.40	6.93	6.33
◆ 841	—MC908GZ60CFAE	DEMO908GZ60E	LQFP 48	2k	60K	SPI, SCI, CAN	2.2	8	5.5	37	10-bit/8-ch	10.09	9.50	5.94
◆ 841	—MC908GZ60CFUE	DEMO908GZ60E	QFP 64	2k	60K	SPI, SCI, CAN	2.6	8	5.5	53	10-bit/20-ch	10.42	9.80	6.13

### HC08JB Family - Low Cost USB Solutions

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Development Kit Part No.	Package	Internal RAM (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	—MC908JB8FBFE	QFP 44	256	8K	USB 1.1	1	3	5.25	37	3.14	2.95	1.85	
◆ 841	—MC908JB8JDWE	SOIC 20	256	8K	SPI, SCI	2	3	5.5	13	2.70	2.21	1.59	
◆ 841	—MC908JB16JDWE	SOIC 20W	384	16K	IRSCI, SPI, I2C	2	6	2.2	21	3.31	3.12	1.95	

### HC08JK/JL Family - General Purpose Low Cost Solutions with A/D

◆ 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	—MC908JK8CDWE	DEMO908JL16	SOIC 20W	256	8K	SCI	2	8	5	15	8-bit/10-ch	3.94	3.71	2.32
841	—MC908JL8CDWE	DEMO908JL16	SOIC 28W	256	8K	SCI	2	8	5	23	8-bit/12-ch	2.94	2.40	1.73

### HC08LJ/LK Family - Low Cost LCD Solutions Targeting Small Scale LCD devices

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK 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	—MC908LJ12CFBE	LQFP 52	512	12K	IRSCI, SPI	2	8	5	20	10-bit/4-ch	9.22	6.57	4.50
◆ 841	—MC908LJ24CFUE	QFP 64	768	24K	IIC, SCI, SPI	2	8	5	40	10-bit/6-ch	8.99	8.46	5.29
◆ 841	—MC908LK24CFUE	QFP 64	768	24K	IIC, SCI, SPI	2	8	5	40	10-bit/6-ch	8.44	7.95	4.97

