

16 and 32-Bit Microprocessor Support ICs

SEM93

80186	Mfr.	Pins	Description
80C186	INTEL	68	16-bit CMOS CPU, 12MHz clock (enhanced 80C86 – PLCC Package)
80C186	INTEL	68	16-bit CMOS CPU, 20MHz clock (enhanced 80C86 - PLCC Package)
80C186	INTEL	68	16-bit CMOS CPU, 25MHz clock (enhanced 80C86 - PLCC Package)
80C186	AMD	68	16-bit CMOS CPU, 12MHz clock (enhanced 80C86 - PLCC Package)
80C186	AMD	68	16-bit CMOS CPU, 16MHz clock (enhanced 80C86 - PLCC Package)
286			
286	INTEL	68	16-bit NMOS CPU, 10MHz clock. Two 8086 upward compatible operating modes, integrated memory management and protection. (PLCC Package)
286	INTS	68	16-bit CMOS CPU, 16MHz clock. Two 80C86 upward compatible operating modes, integrated memory management and protection. (PLCC Package)
82C84	HAR	18	CMOS Clock Generator and Driver, 25MHz
82C84	OKI	18	CMOS Clock Generator and Driver, 8MHz
586			
586	CYRIX	168	32-bit, High Integration, CMOS Microprocessor, 100MHz (PGA Package)
8XC196			
80C196	INTEL	68	16-bit CMOS CPU, on-chip 10-bit A/D converter with sample and hold amp., 8/16-bit external bus, 16MHz (PLCC Package)
87C196	INTEL	68	16-bit CMOS MCU, 8K OTP PROM - on board 8 channel ADC, 12MHz (PLCC Package)
87C196	INTEL	68	16-bit CMOS MCU, 8K OTP PROM - on board 8 channel ADC, 16MHz (PLCC Package)
87C196	INTEL	68	16-bit CMOS MCU, 16K OTP PROM - on board 8 or 10 bit ADC with sample and hold amp., 8/16 bit external bus, 20MHz (PLCC Package)
80960			
80960	INTEL	84	32-bit RISC CPU with multiplexed 16-bit bus and 512 byte instruction cache, 16MHz clock (PLCC Package)
80960	INTEL	84	32-bit RISC CPU with multiplexed 16-bit bus, IEEE floating point, and 512 byte instruction cache, 16MHz clock (PLCC Package)

Mfrs. List No.	Order Code	1+	10+	100+	250+	500+
N80C186XL12	SMD 205-825					
N80C186XL20	SMD 631-796	38.64	27.42	24.15	—	—
N80C186XL25	SMD 316-6193	—	—	—	—	—
N80C186-12	SMD 671-782					
N80C186-16	SMD 671-794					
N80286-10	SMD 390-331	43.92	35.94	31.26	—	—
CS80C286-16	SMD 390-355	74.40	57.87	52.08	47.40	43.41
CP82C84A.	527-830	9.54	5.79	4.80	4.26	3.96
MSM82C84A-2RS	403-714..					
		1+	3+	5+		
CX5X86-100GP	655-077†					
		1+	10+	100+	250+	500+
N80C196KB	SMD 563-493					
N87C196KB	SMD 632-132†					
N87C196KB16	SMD 316-6247					
N87C196KC20	SMD 631-681					
N80960SA16	SMD 631-863					
N80960SB16	SMD 631-875					

† Available until stocks are exhausted

∞

594

Semiconductors – Integrated Circuits

H8

The H8 family are high performance, high integration, low power, CMOS, 16MHz or 18MHz (for H8/3048 Flash) clock, programmable 16-bit microcontrollers with 32-bit internal architecture. Their high speed instruction set is upward-compatible for easy porting of software from H8/300 series.



SEM417

Mfrs. List No.	ROM (bytes)	RAM (bytes)	16-bit timers	PWM timers	ADC (bit/channel)	Watchdog timer	int./ext. interrupts	I/O ports	Pin/Package
HD6413002F16	—	512	5	5	10/8	1	30/7	38	100 QFP
HD6413003F16	—	512	5	5	10/8	1	34/9	49	112 QFP
HD6413004F16	—	2K	5	5	10/8	1	21/6	21	80 QFP
HD6413005F16	—	4K	5	5	10/8	1	21/6	21	80 QFP
HD6473042F16	64K	2K	5	5	10/8	1	30/7	37	100 QFP
HD64F3048F16	128K	4K	5	5	10/8	1	30/7	70	100 QFP

Order Code	1+	10+	100+	250+
788-030				
788-041				
788-053				
788-065				
788-077				
315-8652				

H8S/2100 'FLASH' Microcontroller Evaluation Board

The EVB2144F allows evaluation and a low cost way to begin software and hardware development.

Kit includes:

- Evaluation board with serial connection cable
- C compiler with manuals on CD-ROM
- Debugger with user manual
- Device data book on CD-ROM
- Evaluation board user manual with tutorials
- PC interface cable

Features include:

- Built-in debug monitor supporting code download, memory and register editing, stepping and breakpoints
- RS-232 serial ports
- LEDs indicating power and user application
- MCU I/O ports user interface connectors
- Software to program Flash memory

H8S FLASH Evaluation BoardOrder Code [315-8664](#)

SEM812

each

The H8S/2100 is a high performance, low consumption family of 16-bit micros operating up to 20MHz and upwardly code compatible from other H8 devices.

Mfrs. List No.	ROM (bytes)	RAM (bytes)	FLASH (bytes)	Timers	PWM	A/D Bit/Channel	I/O	Interrupts int/ext	Pins/Package
HD64F2144FA20				3 8-bit			74	9/46	100/QFP
HD64F2134FA20	128K	4K	128K	1 16-bit 2 WDT	2 14-bit	10/8	58	9/31	80/QFP
HD64F2128FA20				4 8-bit					64/QFP
HD64F2128PS20	128K	4K	128K	1 16-bit 2 WDT	2 14-bit	10/8	43	4/33	64/DIP

Order Code	1+	10+	100+
SMD 315-8676			
SMD 315-8688			
SMD 315-8690			
315-8706			

ST10

Pins	Description
10R165	100 16-bit CMOS MCU, 2K bytes RAM, 5 timers, USART + SSC - 20MHz (PQFP)

Mfrs. List No.	Order Code	1+	10+	100+	250+	500+
ST10R165BT1	SMD 688-551†					

† Available until stocks are exhausted



SEM561