

68000 Microprocessor Support ICs

SEM208

Mfr.	Pins	Description
68230	ST 48	Parallel Interface Timer, 8MHz (was MK68230N08)
68681	PS 40	Dual Channel UART
68692	PS 40	CMOS Dual Channel UART
68692	PS 44	CMOS Dual Channel UART (PLCC Package)
68901	ST 48	Multifunction Peripheral, 4MHz

Mfrs. List No.	Order Code	1+	10+	100+	250+	500+
TS68230CP8	<b>390-653</b>					
SCN68681C1N40	<b>390-665</b>					
SCC68692C1N40	<b>568-764</b>					
SCC68692C1A44	<b>SMD 568-776</b>					
MK68901N04	<b>390-677</b>					

Programmable Peripherals

PSD3XX Series

PSDs allow the user to off-load real-time software functions to programmable hardware, reducing software development and debug cycles. By enabling the parallel execution of logic and MCU functions, PSDs facilitate faster embedded system performance.

A single-chip microcontroller and a low cost PSD create a two-chip solution that will probably cost less than any other design alternative available.

Part No.	Configuration	PLD Inputs/ Product Terms	I/O Ports	EPROM	SRAM
PSD301	8 or 16	12/40	19	256K	16K
PSD302	8 or 16	16/40	19	512K	16K
PSD311	8	12/40	19	256K	16K

SEM326



Mfr.	Pins	Description
301	WSI 44	Programmable microcontroller Peripheral - 150ns, PLCC Package
301	WSI 44	Programmable microcontroller Peripheral - 200ns, PLCC Package
302	WSI 44	Programmable microcontroller Peripheral - 200ns, PLCC Package
311	WSI 44	Programmable microcontroller Peripheral - 150ns, PLCC Package
311	WSI 44	Programmable microcontroller Peripheral - 200ns, PLCC Package

Mfrs. List No.	Order Code	1+	10+	100+
PSD301-15J	<b>641-133</b>			
PSD301-20J	<b>702-973</b>			
PSD302-20J	<b>702-997†</b>			
PSD311B-15J	<b>121-320</b>			
PSD311-20J	<b>641-121.</b>			

† Available until stocks are exhausted

General Purpose Microprocessor Support ICs

SEM60

Mfr.	Pins	Description
4702	INTS 16	CMOS Programmable Baud Rate Generator, 14 baud rates, uses 2.4576MHz xtal.
145411	MOT 16	UART Clock Generator, 16 different output clock rats possible (x1, x8, x16, x64). Baud rates range from 150Hz to 9600Hz (1.8MHz xtal) or 300Hz to 19.2kHz (3.68MHz xtal). 5V supply

Crystal Oscillator

6872	INTS 8	Low Power Crystal Oscillator. Externally programmable to operate between 10KHz and 10MHz
7210	INTS 8	Low Power Crystal Oscillator. Operates 10kHz to 10MHz

Mfrs. List No.	Order Code	1+	10+	100+	250+
HD3-4702-9	<b>390-823</b>				
MC145411P	<b>390-859</b>				
CDP6872E	<b>786-780</b>				
HA7210IP	<b>.271-305</b>				

The following Real-Time Clocks/Calendars from Xicor have standard clock/calendar format, 2-wire interface, dual alarms, EEPROM, and are Y2K compliant.

Mfrs. List No.	Pins/Pkg	EEPROM	RTC (1) Vback (V)	EEPROM (2) Vcc (V)	Vtrip (3) (V)	WDT (4) Period (s)	O/P freq. option	Additional Features
X1203S8	8/SOIC	OK	1.8 - 5.5	2.7 - 5.5	N/A	N/A	N/A	
X1226S8	8/SOIC	4K	1.8 - 5.5	2.7 - 5.5	N/A	N/A	32.768kHz 4096Hz/1Hz	
X1242S8	8/SOIC	16K	1.8 - 5.5	4.5 - 5.5	4.38 ±3%	Off/0.25 0.75/1.75	N/A	adjustable low voltage reset, active low reset
X1243S8	8/SOIC	16K	1.8 - 5.5	2.7 - 5.5	N/A	N/A	N/A	

(1) RTC operates from Vback-up down to 1.8V

(2) EEPROM and RTC read/write functions down to Vcc = 2.7V

(3) Pre-programmed Vtrip level

(4) Software selectable watchdog time-out period



Order Code	1+	10+	100+
<b>355-7169</b>			
<b>355-7170</b>			
<b>355-7182</b>			
<b>355-7194</b>			

Real Time Clocks

Mfrs. List No.	Pins	Type	Power Options	Clock Format	Calendar Format	User RAM (Bytes)	Interrupts	Bus Type
DS1202*	8	Serial	2V-5V	STD	STD	24		3-wire
DS1302*	8		3V-5V	STD	STD	31		3-wire
DS1302Z*	8		3V-5V	STD	STD	31		3-wire
DS1305*	16		3V-5V	STD	STD	96	A 2	3-wire or SPI
DS1305E*	20		3V-5V	STD	STD	96	A 2	3-wire or SPI
DS1307*	8		5V	STD	STD	56	2-wire	
DS1307Z*	8		5V	STD	STD	56	2-wire	
DS1602**	8		5V	BINARY	BINARY			3-wire
DS1602S**	8		5V	BINARY	BINARY			3-wire
DS1603**	7/SIP		5V	BINARY	BINARY			3-wire
DS1670*	20		3.3V	STD	STD		A, WD, RESET	3-wire
DS1215*	16	Phantom Clocks	5V	STD+hh	STD			Parallel/Phantom
DS1315-5*	16		5V	STD+hh	STD			
DS1286*	28	Watchdog Timekeepers	5V	STD+hh	STD	50	A, WD	Parallel/Bytewise
DS12887*	24		5V	STD	STD	114	A, P, U	Parallel/Mux'ed
DS12C887**	24		5V	STD	STD	114	A, P, U	

Order Code	1+	10+	100+	250+
<b>485-299†</b>				
<b>787-115</b>				
<b>SMD 787-127</b>				
<b>795-987</b>				
<b>SMD 670-789</b>				
<b>787-139</b>				
<b>SMD 787-140</b>				
<b>.670-790</b>				
<b>SMD 670-807</b>				
<b>.670-819</b>				
<b>SMD 670-820</b>				
<b>403-740†</b>				
<b>309-5757</b>				
<b>403-751</b>				
<b>.703-400</b>				
<b>333-0047</b>				

† Available until stocks are exhausted

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