

# M68SAC1

#### STAND-ALONE COMPUTER

The M68SAC1 is a complete computer system that fits on a single printed circuit board, thus providing significant benefits in cost and size over multiboard systems.

The crystal controlled clock circuit provides the Stand-Alone Computer with the capability of working with dynamic memories and slow memories. The clock circuit also generates the basic timing signal used by the module's baud rate generator.

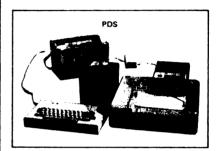
By setting jumpers, the user can tailor the module to work in different configurations to economically suit his needs.

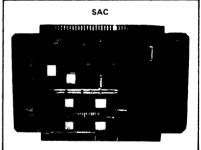
- Four 8-bit parallel Input/Output Ports and Control Lines for Peripheral Interfacing
- Two asynchronous Input/Output Ports with one RS232.C/TTL/-TTY Current Loop interface.
- 384 bytes of RAM
- Three MCM68708 or equivalent AROM/ROM Sockets:
- One MCM6830 ROM Socket
- 921.6 KHz on-board crystal controlled clock generator
- No restriction on Interrupt capability
- On board real-time clock capability
- Four jumper selectable vectors addresses.
- Fully buffered Three-State Bus Connector • Fully compatible with all EXORciser modules

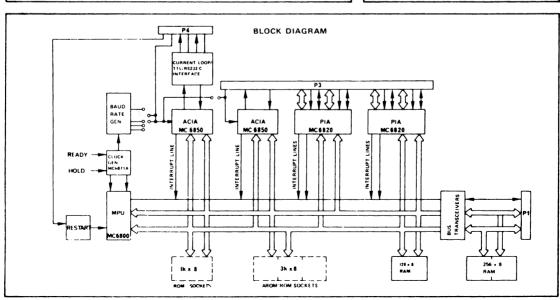
By adding options, the Stand-Alone Computer can be upgraded to an Autonomous Development System.

## POLYVALENT DEVELOPMENT SYSTEM

### STAND-ALONE COMPUTER







### MODULE SPECIFICATIONS

Specification  Memory Size Capability  On-Board Memory Size  Memory locations available for external expansion		Value  65, 536 bytes maximum.  384 bytes of RAM 3 x 1 K-byte MCM68708 compatible AROM/ROM Sc 1 x 1 K-byte MCM6830 compatible ROM socket  44 K-byte: 0000 to 7FFF 9000 to 9FFF B000 to CFFF			
			Word Size	Data Address Instruction	8 bits 16 bits 8, 16, or 24 bits
			Instruction Set		72 variable length instructions
			Interrupts		Maskable and non-maskable real-time interrupts; Software interrupt
Clock Signal		921.6 KHz			
Address Bus Data Bus Control Bus		Three-state TTL voltage compatible Three-state TTL voltage compatible TTL voltage compatible			
MC6820 Peripheral Interface Adapter Lines MC6850 Asynchronous Communication Interface Adapter		TTL voltage compatible* TTL voltage compatible*			
Serial Transfer Rate  Terminal interface		110, 134.5, 150, 200, 300, 600, 1200, 1800, 2400, 3600, 4800, 7200, 9600 baud RS232.C, TTL or 20 mA Current-Loop			
Power requirements		+ 5 Vdc at 1,5 A + 12 Vdc at 200 mA - 12 Vdc at 200 mA - 5 Vdc on board converter			
Operating temperature		0° to 70 °C			
Dimensions Width Height Thickness PC Board Thickness		248 mm 9.75 in. 165 mm 6.5 in. 13 mm 0.5 in. 1.6 mm 0.062 in.			

<sup>\*</sup>See MC6820 and MC6850 data sheets for specifications on these signals



MOTOROLA Semiconductor Products Inc. ...