SIM4-03
PROTOTYPING SYSTEM

- Complete Micro Computer System for Prototyping and/or Production
- Pin for Pin Replacement for SIM4-02/Plugs Directly into MCB4-20
- Programs Developed for SIM4-01/SIM4-02 May be Used Directly on SIM4-03 with No Modifications
- Uses 4008/4009 Memory and I/O Interface Set to Replace TTL
- Additional Pins Brought Out to Interface with Standard Intel RAMs for Program Storage

During the development phase of systems using the MCS-4 micro computer set, the designer will often find it helpful to have a means for developing and testing out his programs. The SIM4-03, a prototyping card, in which the 1702A electrically programmable and erasable read only memories simulate the 4001 mask programmable read only memories will help serve this purpose. Using this card, it is possible for the system designer to assemble and simulate his programs, program the 1702As, plug them into the system, check out the programs, and make corrections as necessary. In this way, the development cycle can be reduced considerably.

SIM4-03 Logic Diagram

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SIM4-03 System Specifications

CARD DIMENSIONS:
11.5" wide
8.0" high

COMPONENTS ON BOARD:
- one 4004 Crystal Clock
- one 4008 Eight TTL input ports
- one 4009 Eight TTL output ports
- four 4002s Sockets for memory expansion

MAXIMUM MEMORY CONFIGURATION:
sixteen 4002 RAMs – 1280 x 4
sixteen 1702A ROMs – 4096 x 8

OPERATING SPEED:
1.35μs clock period
10.8μs instruction cycle

D.C. POWER REQUIREMENT:
Voltage –
VCC = VSS = 5V ± 5%
TTL GND = 0V
VDD = −10V ± 5%

Current –
Typical Operation [1] (1-1702A PROM)
ICC = .980 amp
IDD = .440 amp

Maximum Current [2] (16-1702A PROMs)
ICC = 2.66 amps
IDD = 1.70 amps

CONNECTOR:
Wire wrap type/Amphenol
86 pin connector
P/N 261-10043-2

NOTES:
1. Typical values are for TA = 25°C and nominal supply voltages.
2. Maximum values are for TA = 0°C and ±5% supply voltages.

Ordering Information

The SIM4-03 is available from all Intel Distributors:
ALMAC/STROUM Electronics – Washington/Oregon
CRAMER Electronics – Nationwide
HAMILTON/AVNET Electronics – Nationwide
INDUSTRIAL COMPONENTS, Inc. – Minneapolis
SHERIDAN ASSOCIATES, Inc. – Mid-America
L.A. VARAH Ltd. – Western Canada

Price: 1-9 $625.00 10-up $562.50
Product Code: SIM4-03

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