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17
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Features

Capacity
CMOS NVRAM: 4M, 8M, 16M, 32MB
Flash Memory: 4M, 8M, 16M, 32M, 64MB

Cycle/Access Time
CMOS NVRAM: 150/100 nsec Flash memory: 200/150 nsec (read only mode)

On-board timer
provides 1 usec to 16 msec in 1 usec increments for Flash timing requirements

Compatible with
VME/VME64 A32/A24 /D64/D32/D16/D8 (UAT)(BLT)(MBLT)

Block Transfer
of 256 bytes for VME and 2KB for VME64

Module Selection
on 1MB boundaries, switch-selectable

Two on-board
redundant, fused lithium or NiCad batteries

Data retention for CMOS
3 years with lithium batteries
4 weeks with rechargeable NiCad batteries

Ordering Information

MM-6790F / XXXX

/ **4M** cart
/ **8M** cart
/ **16M** cart
/ **32M** cart
/ **64M** cart

MM-6790F

A 64MB VME/VME64 Compatible High-Speed CMOS NVRAM

The MM-6790C is a high speed, non-volatile memory board using various combinations of CMOS NVRAM and Flash memory. The board is completely compatible with VME/VME64 and has a data transfer rate of 64 MB/sec. Boards operate with block transfer (BLT) of 256 bytes for VME and 2KB for VME64 (MBLT).

A Flash memory software driver example is provided on a floppy diskette along with a sample listing in "C" code.

With CMOS NVRAM the MM-6790C has two on-board, redundant, fused batteries to backup the memory in case of a power loss. Batteries may be either rechargeable NiCad or non-rechargeable lithium types. On-board LEDs and a control status register indicate battery condition.

Reliability is ensured by burn-in and running memory diagnostics that check operation for 48 hours while temperature-cycling boards between 0 and 65°C.

MM-6790F Specifications

- **Capacity :**

  CMOS NVRAM: 4MB, 8MB, 16MB, 32MB
  Flash Memory: 4MB, 8MB, 16MB, 32MB, 64MB

- **Cycle/Access Time :**

  CMOS Static RAM: 150/100 nsec (adjustable)
  Flash Memory: 200/150 nsec (adjustable)

- **Memory Configuration :** Sixteen 32/40-pin sockets each for either Flash memory or CMOS NVRAM
- **Address :** 32 bits plus a 6-bit memory address modifier
- **Data In/Data Out :** 8, 16, 24, 32, 64 bits (UAT) and block transfer (BLT) of 256 bytes VME and 2KB for VME64 (MBLT)
- **Modes of Operation :** Read, write, read-modify-write
- **Module Selection :** 1MB boundaries, switch-selectable
- **Interface :** VME/VME64
- **On-Board Batteries :** Two redundant, fused lithium or NiCad batteries; each NiCad battery has its own charger. Both battery types have a voltage monitor and LEDs to indicate battery status
- **Battery Types / Ratings :**

  NiCad (Rechargeable) 100 mA/hr each, 3.6V, Data Retention: 4 Weeks
  Lithium (Non-Rechargeable) 1500 mA/hr each, 3.6V, Data Retention: 3 Years

- **Operating Temperature :** 0 to +65°C
- **Storage Temperature :** -40 to +85°C

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+12V Vpp switchable under software control

Operating Power Requirements :

+5V (Fully-Populated) Standby: 1.6A, Operate: 1.8A
+12V (Programming) Operate: 5mA

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