

Micro Memory MM-6780/P1-XX

## VME / PCMCIA Memory Module Adapter



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## MM-6780P

A VME/PCMCIA Memory Module Adapter

### Features

Capacity:
CMOS NVRAM: 2M to 8MB (Depending on PCMCIA card capacity)
Flash Memory: 10M to 440MB (Depending on PCMCIA card capacity)
Cycle/Access Time 250 nsec
Independent card slot memory size selection from 0 to 64MB in 1MB increments
Two independent memory blocks allow mixing of CMOS NVRAM and flash memory of same configuration
LED1 indicates PCMCIA card is seated properly
LED2 indicator and CSR for battery status reporting
Board accommodates up to four PCMCIA CMOS or Flash memory cards
Meets PCMCIA Release 2.0

### Description

The MM-6780P is a user-configurable memory adapter that accepts combinations of CMOS NVRAM or Flash memory in PCMCIA Type I, II, or III formats. This adapter is compatible with VME Rev. C1.

The MM-6780P memory adapter has two pairs (four total) of 68-pin connectors that accept the PCMCIA cards. A front panel LED indicates when a memory card is properly seated in a connector. Independent front panel ejector releases the PCMCIA cards.

CMOS NVRAM memory cards have integral, replaceable, non-rechargeable batteries whose status is available on LEDs and from a control status register (CSR).

The Flash memory programming supply (+12V) is generated on the board, which requires only a +5V supply.

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-6780P Specifications

- ▶ **Capacity** : CMOS NVRAM: 2M to 8MB, depending on PCMCIA card capacity, Flash Memory: 10M to 440MB, depending on PCMCIA card capacity
- ▶ **Cycle/Access Time** : 250 nsec
- ▶ **Memory Partition** : Four 68-pin sockets 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 bits (UAT)
- ▶ **Modes of Operation** : Read, write, read-modify-write, write protect
- ▶ **Module Selection** : 2 independent module selections for each pair of cards, both on 1MB boundaries, switch-selectable (A32/A24)
- ▶ **Interface** : VME (Rev C.1) and PCMCIA Release 2.0
- ▶ **Operating Temperature** : 0 to +65°C
- ▶ **Storage Temperature** : -40 to +85°C
- ▶ **Relative Humidity** : 95% without condensation
- ▶ **Flash Programming Power Requirements** : +12V Vpp switchable under software control
- ▶ **Operating Power Requirements** : ++5V (Fully Populated) Standby Current (Typical) : 1.2A, Operate Current (Typical): 1.4A

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