Micro Memory MM-6290

DRAM VME Memory Module

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Micro Memory, Inc. **MM-6290D** 1Gigabyte VME/VME64 DRAM Memory Module

Capacity: 8M, 16M, 32M, 64M, 128M, 256MB
Cycle/Access Time Random Read: 200/175 nsec Random Write: 175/50 nsec Block Transfer Read: 125/100 nsec Block Transfer Write: 100/45 nsec.
VME bus compatible per Rev. D A32/A24, D64/D32/D16/D8 (UAT)
Module selection on 1 megabyte boundaries with switch-selectable lower and upper limits
Block Transfer (BLT) within 256 bytes in the D32 mode, and 2KB in the D64 mode
Parity generation and checking on each byte
Lifetime Warranty on parts and labor

Providing up to 256MB of DRAM, the MM-6290D memory module also operates with a 64-bit word per VMEbus specification Rev. D.

The MM-6290D supports A32/A24, D64/D32/D16/D8. Besides the D64 block mode read and write accesses, the MM-6290D responds to A32 and A24 address modifiers for long word, word and byte transfers. Address modifier codes are programmed into a socketed IFL, which allows A32 or A24 masters to access memory when residing on the same bus. The memory module also supports long word, word, unaligned and byte read, write and read-modify-write accesses. Module selection is on 1MB boundaries, with switch-selectable upper and lower limits.

Each 8-bit byte has an associated bit for parity error detection. Parity status is stored and transmitted via BERR*; asserting BERR* inhibits the DTACK* signal during memory read operations.

Ensuring module reliability, complete inspection and testing is performed while running memory diagnostics. In addition, all units undergo 48 hours of burn-in while running diagnostics. Furthermore, Micro Memory backs up board reliability with a **Lifetime Warranty**.

MM-6290D Specifications

- **Capacity** : 8M, 16M, 32M, 64M; 128M, 256MB
- **Cycle/Access Time (nsec.)** :
  Random Read: 200/175
  Write: 175/50
  Block Transfer Read: 125/100
  Write: 100/45
- **Address** : A32/A24 address bits
- **Data In/Data Out** : D64/D32/D16/D8
- **Sequential Access** : Block transfer (BLT) within 256 bytes in the D32 mode, and 2KB in the D64 mode
- **Address Modifiers** : 6-bit, decoded by socketed IFL with the following codes:
  A24: 39, 3A, 3D and 3E
  A32: 09, 0A, 0D and 0E
  A24 with BLT: 38, 3F
  A32 with BLT: 0B, 0F
  A24/D64 with BLT: 38, 3C
  A32/D64 with BLT: 08, 0C
- **Parity** : Byte-wide parity generation and checking. Parity output stored and transmitted via BERR*
- **Interface** : VMEbus-compatible per Rev. D
  Modes of Operation : Read, write, read-modify-write, long word, word, unaligned, block transfer
  Refresh

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