

DIGITAL EQUIPMENT CORPORATION

decsystem10

OPTION BULLETIN

MD10 MASS CORE MEMORY SYSTEM



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MD10 FEATURES

800 nsec access time

Modularly expandable to 128K per unit

256K words of directly addressable memory (maximum)

Switchable memory block address

Two and four way interleaving

Requires only 4.5 square feet of floor space to store 128K

The MD10 Mass Core Memory System lets DECsystem-10 users expand system memory at minimum cost.

The basic MD10 unit is a single cabinet containing 64K of 37-bit, 1.8 μ sec memory. To expand the MD10, the user can add up to two MD10E 32K Expander Units to the same cabinet, providing a maximum capacity per MD10 of 128K. Thus a user has the option of implementing his system with 64, 96, or 128K blocks up to the maximum directly addressable memory capacity of 256K words. Each MD10E unit is easily plugged into the MD10 to simplify field expansion.

The MD10 contains four memory ports and is supplied with the cabling necessary to connect DEC-supplied peripherals.

Because of the asynchronous operation of the processor, the MD10 memory can be intermixed with DEC memories of various speeds; for example, it can be used in the same system with the MA10 or ME10 1 μ sec memories.

MD10/MD10E SPECIFICATIONS

Word Size	36 bits plus parity
Minimum Memory Size (MD10)	64K (K=1024 words)
Expansion Module Size (MD10E)	32K
Maximum Memory Block Size	128K (one MD10 plus two MD10E's)
Read Access Time	800 nsec
Memory Cycle Time	1.8 μ sec
Electrical Requirements	120 or 220 Vac \pm 10% 60 Hz \pm 2% or 50 Hz \pm 2% for any of the following voltages: 100, 115, 200, 216, 230, all voltages \pm 10%.
Humidity	20% to 80%, no condensation
Temperature	60° to 95° F (15° to 35° C)
Height (MD10)	71-7/16 inches (182 cm)
Width (MD10)	21-11/16 inches (55 cm)
Depth (MD10)	30 inches (76 cm)
Weight (minimum MD10)	500 lbs. (228 kg)
Weight (fully expanded MD10)	600 lbs. (272 kg)

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DIGITAL EQUIPMENT CORPORATION, Maynard, Massachusetts, Telephone: (617) 897-5111 • ARIZONA, Phoenix • CALIFORNIA, Anaheim, Los Angeles, Oakland, Palo Alto • COLORADO, Denver • CONNECTICUT, Meriden • DISTRICT OF COLUMBIA, Washington (College Park, Md.) • FLORIDA, Orlando • GEORGIA, Atlanta • ILLINOIS, Chicago • INDIANA, Indianapolis • MASSACHUSETTS, Cambridge and Waltham • MICHIGAN, Ann Arbor • MINNESOTA, Minneapolis • MISSOURI, St. Louis • NEW JERSEY, Parsippany and Princeton • NEW MEXICO, Albuquerque • NEW YORK, Centereach (L.I.), New York City, (Englewood, N.J.), and Rochester • NORTH CAROLINA, Durham/Chapel Hill • OHIO, Cleveland and Dayton • OREGON, Portland • PENNSYLVANIA, Philadelphia and Pittsburgh • TENNESSEE, Knoxville • TEXAS, Dallas and Houston • UTAH, Salt Lake City • WASHINGTON, Seattle • ARGENTINA, Buenos Aires • AUSTRALIA, Brisbane, Melbourne, Perth and Sydney • BELGIUM, Brussels • CANADA, Edmonton, Alberta; Vancouver, British Columbia; Carleton Place, Ottawa and Toronto, Ontario; and Montreal, Quebec • CHILE, Santiago • ENGLAND, Birmingham, London, Manchester and Reading • FRANCE, Paris • GERMANY, Cologne, Hanover, Frankfurt and Munich • ITALY, Milan • JAPAN, Tokyo • NETHERLANDS, The Hague • SWEDEN, Stockholm • SWITZERLAND, Geneva and Zurich • PHILIPPINES, Manila • VENEZUELA, Caracas