DEC SYSTEM 10

OPTION BULLETIN

MD10 MASS CORE MEMORY SYSTEM
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 DECSys-
tem-10 users expand system memory at minimum cost.

The basic MD10 unit is a single cabinet containing 64K
of 37-bit, 1.8 μsec 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 implement-
ing his system with 64, 96, or 128K blocks up to the maxi-
mum 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 memo-
ries of various speeds; for example, it can be used in the
same system with the MA10 or ME10 1 μsec 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 μsec
Electrical Requirements
120 or 220 Vac ±10%
60 Hz ± 2% or 50 Hz ± 2%
for any of the following
voltages: 100, 115, 200, 216,
230, all voltages ± 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)