MOLECULAR
Central Processor

BCL

Efficient, high-speed commercial and management computing need no longer be associated with bulky machines, costly buildings and extensive air conditioning plant. The compact MOLECULAR SERIES IV processor can perform all the operations required for commercial computing. Designed and manufactured in Britain, the MOLECULAR is fast, adaptable and dependable.

Technical Details

Word structure
18 bits: 16 data bits sign and parity
Two 8-bit bytes a word
Three alphanumeric characters a word
Instruction format of 5-bit
operation code direct/indirect
flag, page flag, 10-bit address

Memory
Core from 16K Bytes (8K words) to 256K Bytes (128K words) 18 bit word modules
Register instruction execute time 1.4 microseconds
Memory reference instruction fetch time 1.2 microseconds
Memory reference instruction execute time 1.2 — 1.4 microseconds
I/O instruction execute time 1.6 microseconds
Store organised in 1024 word pages

Interrupts
One interrupt level

Registers
5 hardware registers including 2 accumulators

Instructional repertoire
A comprehensive repertoire of instructions is available for programming purposes

Input/output control
Programmable Data Input/Output plus direct memory access

Dimensions
Width 23 inches (584mm)
Depth 37.5 inches (952mm)
Height 34 inches (860mm)

Operating conditions
Normal office environment without false floor or ceiling as defined in the Molecular Site Preparation Manual

Power consumption
1600 VA

Voltage
240± 10% AC 50 Hz single phase
110/120V 60 Hz single phase optional

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