



THE VICTORY FACTOR:

System Specifications

Powerful Central Processing Unit (CPU) Single Board Computer

- Motorola MC 68000 16/32-bit CPU with memory address capability to 16 megabytes.
- Z80 8-bit processor dedicated to input/output control (1 per 8-user bank).
- Advanced memory management unit for address translation, write protection, and access control.
- 256 Kb dual-ported RAM with parity error detection.
- 7 RS232C serial ports (19.2 kilobaud).
- 1 RS422 serial port (800 kilobaud).
- 1 Centronics-compatible 16-line parallel port.

Disk Control

- Winchester hard disk and floppy disk controllers support either 5¼ inch or 8 inch floppies or Winchesters.
- Full track buffer for advanced file-queueing algorithms using pre-fetch from disk.

Memory Expansion Board

- 1 megabyte RAM expansion board (250 ns).
- Complete parity error detection.

Co-processor and I/O Expansion

- Features 6 Z80 CPUs, two for I/O control, four for co-processing (CP/M-80).
- 256 kilobyte dual-ported RAM.
- 16 RS232C serial ports.

VME Bus

- High speed, 16 MHz, asynchronous, non-multiplexed standard bus.
- Advanced new multi-layer back plane design.
- Ultra reliable 96-pin/DIN connectors.
- 6 card slots standard (2 96-pin DIN connectors per slot).
- 32-bit address and data paths.
- 7 interrupt levels and 4 arbitration levels.
- Error signals: AC fail; system fail; bus error.
- Supports single, double, and double extended Eurocard form factor.

I/O Bus

- Fully implemented CPU-dedicated sub-bus running on second DIN connector.
- Fully supports the Motorola I/O bus (2 MHz).
- Accommodates a comprehensive line of readily available industrial control, data acquisition, and instrumentation plug-in electronics cards.

Peripherals

- Floppy disk drives, Winchester hard disk drives, and removable cartridge Winchester disk drives standard.
- DMA SYSTEMS 5¼" REMOVABLE CARTRIDGE HARD DISK.
- SEAGATE 5¼" HARD DISK or QUANTUM 8" HARD DISK.
- TEAC 5¼" FLOPPY DISK or TANDON 8" FLOPPY DISK.

Chassis

- Standard peripheral configurations in a single chassis consist of three components: one floppy disk (5¼" or 8"), one fixed Winchester disk (5¼" or 8"), and one removable cartridge Winchester disk (5¼"), two switching power supplies, and 6-slot VME card cage.
- The 6-slot VME card cage accommodates multiple configurations of system CPU, RAM, I/O expansions and network/communications controllers.
- Dimensions: 14" (36 cm.) width; 19" (49 cm.) height; 24" (62 cm.) depth.
- Weight: 65 lb. (143 kg.)
- Power: 110/220 volts (60/50 Hz), 400 watts.

Advanced Systems Software

- Powerful operating system; UNIX with a fast real-time executive (VRTX).
- Widely-used programming languages: C, FORTRAN, and PASCAL.
- Hundreds of proven scientific, instrumentation and industrial control applications.



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