supermax
vertical

concept

Supermax Vertical
– the new model
in the Supermax series.

The SUPERMAX Vertical is a 16 bit microprocessor-based multi-CPU computer system that uses modules from its well-known big brother, the multi-CPU system, SUPERMAX.

The Vertical model, though, is a 12 slot version designed to be placed under your desk. No larger than many super micro's, SUPERMAX Vertical gives users all of the power of its 16/32 bit MC68000 CPU's.

Hardware

The Vertical is modular in design, which eases expansion. It has a twelve-slot backplane, six of which are used in the basic configuration:

- Two CPU/MMU modules based on a 10Mhz MC68000.
- Two 512 Kbyte memory modules with standard ECC, total 1 Mbyte.
- One SIOC, the serial intelligent I/O controller, with 8 serial ports to terminals, printers, and modems, as well as a high-speed parallel printer port.
- One DIOC, an intelligent disk I/O controller with ports to floppy and Winchester disks, as well as a cartridge streamer port.

The SUPERMAX Vertical can be expanded with an additional 12 slot chasis to support:

- Up to 8 CPUs/MMUs.
- 128 Mbyte ECC memory.
- Up to 8 Intelligent I/O controllers.

Background storage includes 36 Mbyte Winchester disks, 20 Mbyte cartridge streamer, and a 1 Mbyte diskette.

Further, instead of adding SIOC's to support more than eight users and DIOC's for more disk-capacity, CIOC's, that is, intelligent communications I/O controllers, may be used.

The CIOC has two high-speed communications ports, both of which function independently. They support asyncronous (TTY), syncronous (BSC), SDLC (SNA), HDLC (X.25), X.21, and X.21 bis communication. Interfaces supported are RS 232C (V24) and X.26/X.27 (V11).

The Vertical model also supports other intelligent I/O controllers, such as Network I/O controllers and High capacity disk I/O controllers.

Software

The SUPERMAX Operating System is a real-time system with a UNIX III compatible program interface and file structure. It is written in C, and as a guarantee of portability, UNIX System III Shell and tools are available.

The operating system is the same as that used in all other versions in the SUPERMAX product line.

This implementation guarantees an easy and inexpensive migration to larger SUPERMAX models. Applications software remains the same, thus protecting investment.

Specifications

Physical:
   Height 69,5 cm. (27.4 inches)
   Width   29.5 cm. (11.6 inches)
   Depth   79,5 cm. (31.3 inches)
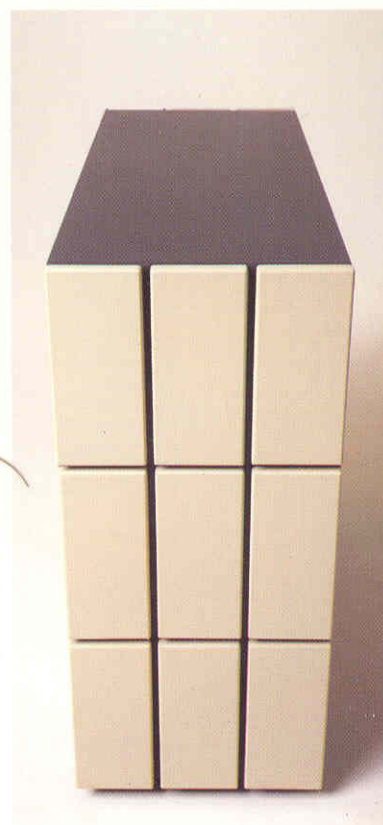   Weight 60,0 kg. (132 pounds)

Environmental:
   Temperature 10-35°C (50-95°F)
   Humidity 10-90% non-condensing.

Electrical:
   115 V+/-20%, 60 Hz, max 6.5 Amps
   220 V+/-20%, 50 Hz, max 3.5 Amps

Please refer to the SUPERMAX brochure, "Meet SUPERMAX – the great dane", for more detailed information on hardware and software modules.

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