Imperial Technology, Inc.

MEGARAM-PC

Solid-State Disk Emulator For The IBM And IBM Compatible Personal Computers.

- 1.2 microsecond access time
- 0.95 megabytes/sec. transfer rate

The MegaRam-PC storage system is a solid-state, non-rotating memory system which is interfaced to the computer as if it were a rotating disk.

The system is available in capacities which range from 2.0 megabytes to 16.0 megabytes in 2.0 megabyte increments. It can be attached to any IBM or IBM compatible personal computer system and accessed as if it were a disk drive.

Because of the zero latency time and high data transfer rate, it combines the performance and reliability of main memory with the storage capacity and convenience of a peripheral.

With access times that are 267,000 times faster than a floppy disk and 75,000 times faster than a fixed disk, the MegaRam system can provide a truly dramatic increase in system throughput.

Features:
- 16 megabytes in 3.8-inch high chassis.
- Battery back-up option.
- Optional error detection and correction.
- Random access capability to any address in storage.
- Maximum access time 1.2 microseconds.
- Transfer rate of 0.95 megabytes/sec.
- Zero latency.
- Low maintenance cost.
- One year warranty.

Disk Emulations:
The MegaRam system is delivered with an I/O driver to be installed with the operating system. Once installed, this driver allows the MegaRam to be accessed as if it were an additional disk. The system is completely compatible with all applications software.

Speed Comparisons:

	Floppy Disk (PC)	Fixed Disk (XT)	MegaRam-PC
Capacity	320Kbytes	10Mbytes	2.0Mbytes to 16.0Mbytes
Access Time	320msec (ave.)	90msec (ave.)	1.2usec (max.)
Transfer Rate	31.25Kbytes/sec.	625Kbytes/sec.	950Kbytes/sec.

Error Correction and Detection:
The error correction and detection option allows single bit errors to be corrected automatically. Multi-bit errors are detected and reported to the processor.

Battery Back-Up:
A battery back-up option is available to protect the stored data if input power is removed. It consists of an optional power supply assembly which replaces the standard assembly inside the MegaRam chassis. This optional supply contains a battery pack capable of supporting a 2.0 megabyte capacity MegaRam system for approximately 60 minutes.

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Specifications:

Capacity:	2.0 megabytes to 16.0 megabytes in increments of 2.0 megabytes.
Word Length:	8 bits.
Data Transfer:	0.95 megabytes/second.
Access Time:	1.2 microseconds maximum. (12.2 microseconds set up time for software driver.)
Interrupt Vector:	Jumper selectable.
Device Address:	User selectable (200 standard).
Data Transfer:	DMA.
Bus Loading:	One busload (uses one short expansion slot).
Size:	3.8" (9.65cm) high 19.6" (49.78cm) wide 16.1" (40.89cm) deep
Power:	90-132 VAC or 180-264 VAC, single phase 50 or 60 Hertz. An 8 megabyte system requires 1 amp at 120V.
Operating Environment:	0°C to +50°C ambient temperature. Up to 90% relative humidity with no condensation.

Contact factory for further information.

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