2D/3D INTERACTIVE COLOR TERMINAL

MATROX GXT-1000

THE NEW MATROX GXT-1000 color graphics terminal delivers true 2D/3D interactive performance. It's fast. It's intelligent. It's high resolution. And costs less than $10,000 in OEM quantities. Complete.

THE GXT-1000 TRANSFORMS, CLIPS AND DRAWS lines at speeds up to 20,000 vectors / second. Area filled rectangles at 5000 rectangles/second. True 3D 1000 polygon pictures with hidden surface removed and shaded in 10 seconds.

HOST WORKLOAD AND COMMUNICATIONS ARE GREATLY REDUCED. The GXT-1000 allows the user to download complete object data files, using 64K x 64K x 6 virtual co-ordinates, to local memory. The terminal contains up to 22 Mbytes of RAM and disk memory for local picture segment storage, (up to 2000 active segments). Once downloaded all data manipulation and viewing can be performed locally, in near real-time without host support.

HIGH RESOLUTION
• up to 1280 x 1024
• 4 to 16 video planes
• 256 color look-up table per surface
• 19" high res. color monitor
• interlaced or non-interlaced

HIGH SPEED
• 80286 graphics engine
• 6 pipelined slave processors
• up to 20,000 short vectors/sec
• up to 5000 filled rectangles/sec

HIGH PERFORMANCE
• 64K x 64K x 64K virtual addressing
• local picture storage up to 22 Mbytes on disk
• local segment storage up to 1 Mbyte (2000 segments) in RAM
• full 2D transformations standard
• 3D with hidden surface removal and shading optional
• multiple viewports and dialog areas (up to 64)
• real time pan in 64K x 64K virtual space

LOCAL I/O SUPPORT
• host interface via RS-232, RS-422/449 or parallel DMA
• detachable low profile keyboard
• complete interfaces for data tablet, optical mouse, printer & plotter
• add-on Winchester/floppy disks

OEM OPTIONS
• desktop or rackmount electronics
• available unbundled as Multibus board set
• VAX host software package

Multibus, 80286 - TM INTEL VAX - TM DEC

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