Metheus 1004

Color Graphics Display Processor for Personal Computers

Metheus, a world leader in mini and mainframe graphics controllers, brings its patented technology to PCs like the IBM PC-AT and compatibles allowing you to create a "microframe" graphics environment. The Metheus® 1004 Graphics Display Processor provides professional graphics performance, very high resolution, brilliant color, outstanding speed, and exceptional reliability.

- 1024×768 pixel display for very high resolution
- 4 bit-planes of brilliant color
- Requires only one 8-bit slot
- Virtually instantaneous vector drawing at speeds of 5 million pixels per second
- No-wait polygon-fills at 42 million pixels per second
- Block-moves at 4 million pixels per second
- Image download at speed of 500K bytes/second
- Hardware pan and zoom supported on board
- IBM™ Color Graphics Adapter emulation is standard for compatibility with off-the-shelf PC application programs
- An extensive library of software support including application programs such as UG Access™, Crossroads™, Tektronix 4107/09/15 terminal emulation and GEM™.

METHEUS *...the graphics company*

4 Bit-Planes of High Resolution Color Graphics

The Metheus display processor model 1004 provides pixel memory resolution of 1024 × 1024 pixels × 4 bit-planes. With a displayable resolution of 1024 × 768 pixels, generous off-screen storage is provided so objects are quickly displayed with PIXBLT™, Metheus pixel block-transfer instruction.

The color maps addressed by pixel memory offer 4096 colors to choose from. From this palette, the 1004 can display as many as 16 colors simultaneously. In monochrome applications, you can choose up to 16 shades of grey.

Microframe-Micro Prices and Mainframe Performance

Metheus leads the way in the mainframe graphics marketplace for quality and for speed. Now that personal computers approach mini-mainframe performances, they can accommodate the speed of our graphics hardware. Creating a microframe by matching your PC with the 1000-Series Processors produces unbeatable microcomputer price advantages without sacrificing the quality and performance of mainframes.

Enhance Your Application Software's Appearance

The Metheus 1004 is easy to use and operate with most PC compatible software and is ideal for enhancing the appearance of your graphics software. The resolution and color depth make most PC compatible applications programs more readable, more accurate, and just plain more beautiful. The colors are vivid and plentiful and the grey scale generous. These qualities can make your final product more professional appearing by capturing more detail.

IBM CGA Emulation

The 1004 Processor, by default, emulates the IBM CGA card so your programs run beautifully, but not differently. Alternatively, OEM's and programmers can choose high-resolution operation and program the board themselves.

When emulating the CGA, you can run off-the-shelf application packages like LOTUS-1-2-3™, Wordstar™, and Flight Simulator™ using a single high-resolution monitor available from Metheus or from other vendors.

Metheus 1004 Specifications

Memory Configuration and Resolution

Pixel Memory Resolution	1024 by 1024 pixels
Displayed Resolution	1024 by 768 pixels
	60-Hz, non-interlaced
Available Off Screen Memory	64K bytes
Number of Bit-Planes	4 bit-planes

Drawing Processor

Processor Type	2910 bit-slice processors
Cycle time	125 nanoseconds

Performance

Image Downloads	500K bytes/second
Polygon Fills	42 million pixels/second
Block Moves	4 million pixels/second
Vector Drawing	5 million pixels/second

Color Map and Video Output

Displayable Colors	16
Colors Available	4096
Video Timing	RS-343A standard, 60 Hz vertical frame rate, 48.8 Khz horizontal rate, non-interlaced
RGB Video Output	Subminiature D-shell connector; Composite synch on green channel

Mechanical and Environmental

Physical Form	1 slot/2 layered board set
Dimensions	13.25 × 4.25 inches (33.6 × 10.8 cm)
Weight	Approx. 1.3 pounds (0.6 kg)
Power Requirements	4 amps at +5V drawn from PC system bus

For more information, write or call toll-free:

Metheus Corporation
5510 NE Elam Young Parkway
P.O. Box 1049
Hillsboro, Oregon 97123

(800) 547-5315 [toll-free] or (503) 640-8000 (Telex 469092)