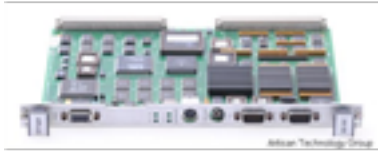
VisiCom Vigra VGS-882

Graphics Server



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Vigra Vgs-882

VME High Performance Color Graphics Server

- Supports Sharp Active Matrix Color LCDs
- On-Board Floating Point Co-Processor
- Comes Standard with 8Mbyte Dynamic RAM, 1Mbyte Overlay RAM, 2Mbyte Video RAM

The Vigra™ single-board, RISC-based Vgs-882 Graphics Server is the solution to real-time VME graphics. The Vigra Vgs-882 executes X Windows™ server software on the board, utilizing a high speed LSI Logic™ 33020 graphics processor to off-load processing of the X Windows server from the host CPU. This off-loads the host system to perform other application processing, helping increase the overall speed and performance of the system itself. The LSI 33020 is a full 33MHz processor and is completely MIPS 3000™ compatible

Hardware Assisted Graphics

To enhance overall system and graphics performance, many graphics functions are assisted by hardware, including:

- Destination boundary masking (clipping)
- Optimized line, block and character rendering
- Optimized bitplane combination and bit-blitting
- Source skew alignment and plane masking

LCD Panel Support

The RAMDAC has a 256-entry color palette and drives most standard high- resolution monitors. It also provides four overlay inputs and a hardware cursor. The Vigra Vgs-882 supports programmable resolution from 640 X 480 X 1280 X 1024 pixels on analog monitors and 640 X 480 on LCD panels. When using 640 X 480 resolution, the display can appear on both the LCD panel and a VGA monitor.

The VME slave interface gives VME masters access to on-board memory. All standard 32-bit, 16-bit and 8-bit VME access types are supported, including burst-mode, read-modify-write and interrupt-acknowledge cycles. When a VME bus master accesses the board, the VME slave interface takes control of the 33020's system bus to transfer data

Keyboard and Mouse

In addition to the RAMDAC outputs, the Vigra Vgs-882 also has a PS/2- compatible keyboard input, dual serial ports and an on-board sound generator for prompts and alarms.

Complete X11R5 Server

Support for X11R5 is standard with the Vigra Vgs-882. Host Interface software is available for most real-time operating systems, as well as Solaris® and other UNIX™ derivatives

Optional New Feature

A new optional capability, Mux-A-Mouse (MAM), is now available to enhance the Vgs-882 host support package. MAM allows the user to share a single keyboard and mouse between multiple Vgs-882 X-servers. With MAM, the Vigra Vgs-882 is able to accept keyboard and pointer events from external sources such as another Vgs or from elsewhere in the host system.

Technical Specifications

GRAPHICS SECTION

Processor	33 MHz LSI Logic LR33020 GraphX
Floating Point	33 MHz Motorola 68882 FPU
Analog Resolution	640 X 480 to 1280 X 1024 pixels
Sync Modes	Separate digital H and V, composite and sync on green
Color LCD Support	Sharp LQ10DH11 and LQ10D015 640 X 480 active matrix panels
Color Resolution	Main: 256 simultaneous colors Overlay: 15 simultaneous colors Cursor: 3 simultaneous colors
Color Palette	16.7 million colors

MEMORY

Main Memory	8Mbytes interleaved DRAM, with a 64-bit interface to LR33020
Video Memory	2 Mbytes (2048 X 1024 X 8 bits) into the main color lookup table
	1 Mbyte (2048 X 1024 X 4 bits) into the overlay lookup table
	All memory is interleaved VRAM, with a 64-bit interface to the LR33020 processor
EPROM	1 Mbit (128K X 8) to 8 Mbit (1M X 8) EPROMs supported

PERFORMANCE

XBench	>75,000 Xstones Keyboard
X11-perf	50,200 100-pixel lines/sec 14,000 100-pixel circles/sec 96.1 scroll 500 X 500 pixels/sec 621 fill 100X100 equivalent comples polygons 94,400 char. in 80-char. image line (6X13)

MANUAL I/O

Keyboard	PS/2-compatible, AT-compatible (with adapter)
Mouse	Microsoft® or Logitech® compatible serial mouse

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SYSTEM INTERFACE

VMEbus Interface	A32 VME slave, 16M movable window
Host Support	Solaris, VxWorks, RTMX, HP-UX
Server Execution	The X Server runs completely on the Vgs-882, and communicates over the VMEbus via a small interrupt-drive daemon

Specifications subject to change without notice

Leading-Edge Technologies

The Vigra product family offers a full line of video, graphics and audio board level solutions for multimedia applications. Vigra products utilize innovative technology designed to meet the changing needs of users and applications developers. A variety of bus form factors are supported, including SBus, VMEbus, PCI and PMC. Multimedia cards, video digitizers, LCD controllers, X- servers, and Audio/Signal processors are also available.

All VisiCom computer products are supported by an experienced staff of engineers familiar with both hardware and software development.

For More Information

For additional information on this product, or on the entire Vigra product family, contact the VisiCom's Computer Products division sales department at **1-800-668-4472**. Outside of the United States, call 1-619-597-7080.

VisiCom Laboratories, Inc.
10052 Mesa Ridge Court
San Diego, CA 92121
Tel: (619) 457-2111
Fax: (619) 597-7094
Email: vigra_sales@visicom.com

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