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Angelo

VIDEO

AGP Ultra High Video Graphics PMC Module

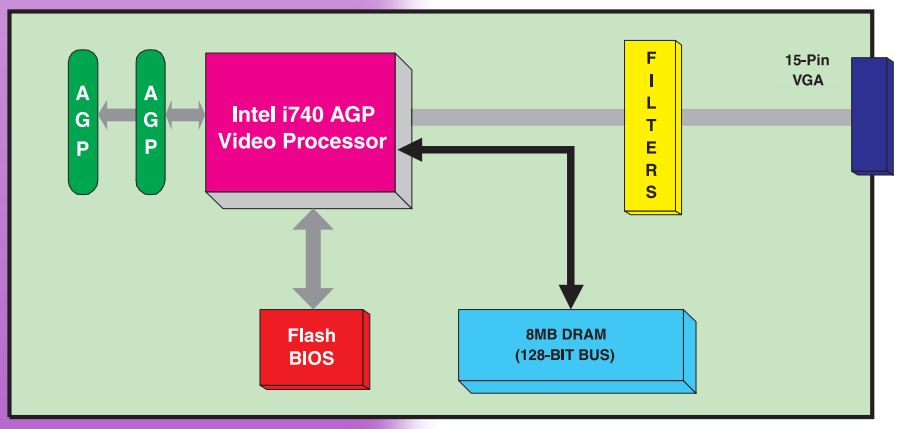
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Key Features:

- AGP Video Graphics via Intel® 740 Device
- Ultra High Resolutions up to 1600 x1200
- Up to 8MB of High Speed Video RAM
- 32 Bit Color Palette
- On-Board 15 Pin Video Connector
- Fully Compliant to IEEE 1386.1
- Two times faster then PCI based video devices
- Eliminates PCI Bus Bottleneck
- On-Board Flash BIOS
- Support for all major Operating Systems, Windows NT®/2000, QNX®, Solaris®x86 and Linux®





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"Redefining Embedded Real-Time Computer Design"
Since 1979

GMS GENERAL MICRO SYSTEMS INC

General DESCRIPTION

The GMS PMC-AGP, Angelo, is the industry's first PMC AGP video module. This module takes advantage of the Intel® 440BX AGP port, which is designed as a secondary PCI bus that operates at 66MHz, instead of the standard PCI-bus, which operates at 33MHz. This AGP bus is connected to the PMC module via Jx and Jy of the PMC module. These connectors, as specified in IEEE1386.1, are user-configurable, and may be used for such applications. Since these two connectors are exactly the same as J1 and J2, which carry the PCI signals, the pin-outs of the connectors match exactly. This second PCI-bus acts as a "turbo-charged" PCI-bus for a high speed, high throughput data port, such as video traffic. Besides the speed advantage gained by utilizing the AGP bus, the bottleneck on the main PCI-bus is also eliminated, creating a fast multi-port PCI system.

The heart of the Angelo is the Intel 740 AGP video device. This device is connected to 8 MB of high speed Video RAM, which provides 100MHz for high speed video, with resolutions of up to 1600x1200 at 32-bit color, and refresh rates of up to 72Hz.

The Intel 740 graphics accelerator uses SDRAM technology and can interface to SGRAM through its 64-bit memory interface. Memory Bus speeds range from 66MHz to 100MHz while configurations of 2, 4 and 8 Mbytes are supported. Using a 64-bit interface, up to 800 Mbytes/s peak bandwidth is supported. The Intel 740 graphics accelerator allows operands to be placed in either local video memory or AGP memory.

The AGP 740 is fully supported under Windows NT®/2000, OpenGL®, VxWorks®, QNX®, Linux® and Solaris®.

For ease of interconnects, the Angelo provides a standard 15-pin VGA connector for direct connection to a monitor. Further, the on-board BIOS flash provides the system's BIOS with the setting it requires. Thus it is fully plug-and-play.

The GMS PMC-AGP may be used directly on the GMS C158 and V158 single board computers, without any modifications to system configuration.

GMS is a leading manufacturer of single board computers for both the CompactPCI and VME bus.

Application areas include: ❒ Industrial ❒ Military ❒ Telecommunications ❒ Pre-Press ❒ Aerospace ❒ Medical ❒ Imaging

GMS Profile:

Since its founding in 1979, General Micro Systems, Inc. (GMS) has been a leading supplier of high-performance, embedded, single-board computers for applications ranging from aerospace and defense, to imaging and telecommunications, and industrial control. Today, GMS offers a broad range of highly integrated VMEbus and CompactPCI single-board computers based on high-performance microprocessors such as the Pentium®, 68K, PowerPC®, ColdFire®, and SPARC®. The company also supports a variety of popular operating systems, including Windows NT, VxWorks, QNX, Solaris x86, and Linux.

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Headquarters in Rancho Cucamonga, California

YOUR AUTHORIZED REPRESENTATIVE IS:

GENERAL MICRO SYSTEMS INC

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