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Key Features:

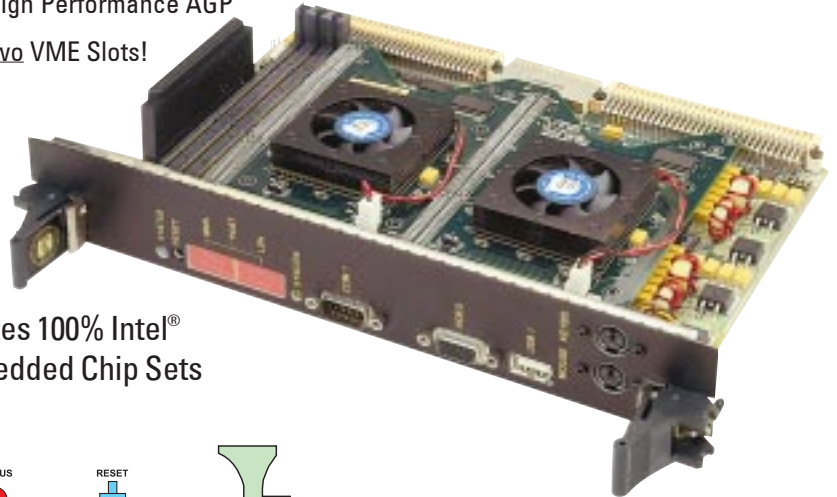
Atlas-V V2P4

**Dual VME
Pentium III SBC
with Triple PMC**

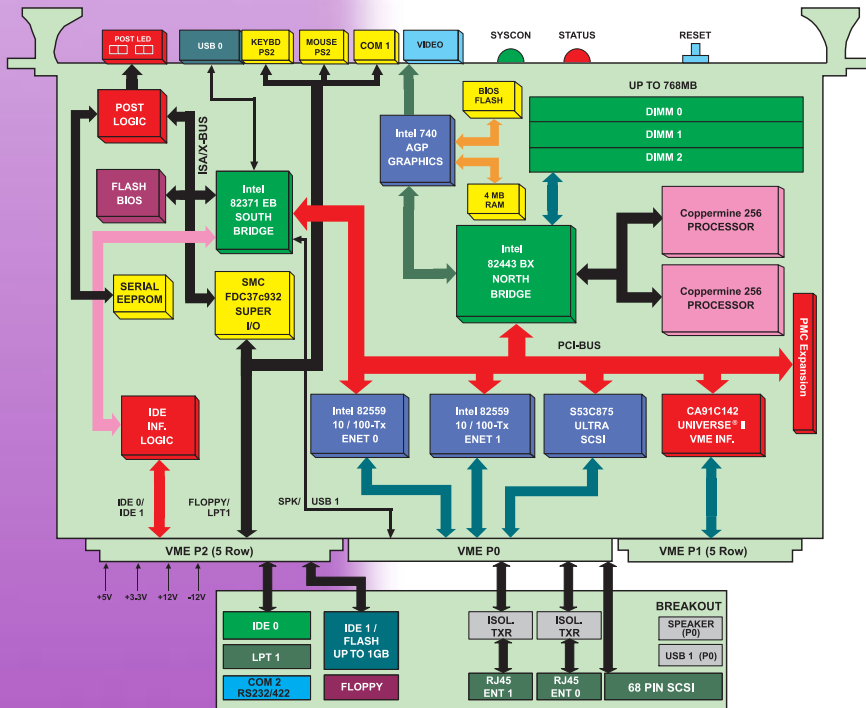


FASTEST VME SBC!

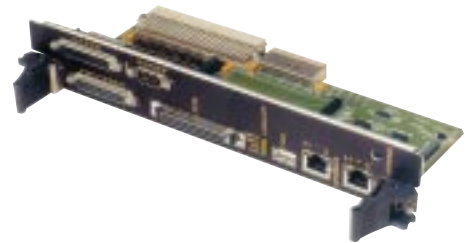
- Dual Coppermine-256 Pentium III Processors up to 1 GHz
- 100MHz Front Side Bus
- 256k of On Die L2 Cache for Each Processor, Clocked at CPU Speed
- Up to 768MB of SDRAM
- Dual 10/100Base-Tx Ethernet
- Ultra Wide SCSI
- Ultra High Performance AGP
- Only Two VME Slots!
- Options: Triple PMC Expansion Module
- VME 64-E via Universe II with VMExpress™ and VME/IP™ Software
- Dual Ultra DMA-33 IDE, Two USB Ports, Two Comm Ports, Floppy, Mouse, Keyboard, Printer Port, RTC, AMI Bios, and up to 1GB Flash IDE, and Power-On-Self-Test (POST)



- Utilizes 100% Intel® Embedded Chip Sets



- Support for WindowsNT®4.0/2000, VxWorks®, Solaris® X86, and Linux® Operating Systems
- Available in 3 Row or 5 Row VME with Front or Rear Panel I/O



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**GENERAL
MICRO
SYSTEMS INC.**

"Redefining Embedded Real-Time Computer Design" Since 1979

The GMS V2P4 "Atlas-V" is the industry's first VME Single Board Computer to unleash the power of single/dual up to 1 GHz Pentium® Coppermine processors with 256KB of On-Die L2 Cache for each processor. The Cache on the Coppermine, unlike the Pentium III, is clocked at the cpu speed for maximum performance.

To fully benefit from the CPU speed, the "Atlas-V" incorporates 100MHz Front Side Bus for Cache/Memory operations. Further, the V2P4 takes full advantage of the Intel's® 440BX Symmetrical Multi-processing (SMP) capabilities for multiprocessing operations. The Atlas SBC provides the fastest operations possible today for any Pentium processor! To guarantee the performance of the processors, the V2P4 provides a 100MHz-memory design, utilizing three SDRAM DIMM modules furnishing up to 768MB of low-cost, ultra high-speed memory, with ECC.

The V2P4 is designed to fully utilize the outstanding graphics power of the Intel 740 Advanced Graphic Port (AGP) device. This device, unlike traditional PCI based graphic devices, is connected to the CPU memory via a 32bit Dual Edge 66MHz bus. Thus, it is four times faster, and it does not take PCI bus bandwidth, slowing other PCI based I/Os in the system. The AGP has its own 4MB of high speed video memory for rich colors & high resolution video display.

For I/O, the V2P4 provides two 10/100Base-Tx Ethernet ports, one Ultra-Wide SCSI port, dual IDE channels, dual USB ports, two serial ports, printer and floppy support including the 120MB LS-120 Super Floppy. All of the I/O (except one serial and one USB port) is accessible on an 80MM rear panel transition I/O board via a standard I/O connector; thus, eliminating the front panel I/O and a costly custom interconnect. For applications requiring front panel I/O only and the need for a standard 3 row VME card cage, an optional interface module re-routes the

rear panel I/O to front panel while also providing 3.3V to the processor module. On the front panel or rear panel transition I/O modules accommodations are made for 2.5" HDD Drive & Flash for Disk-less systems. The front panel on the processor module accommodates a standard 15 pin VGA, one Serial port, one USB port, reset switch, keyboard / mouse and dual Hex displays for Diagnostics status and a Pass/Fail LED indicators. The V2P4 can operate with only one CPU for applications requiring a single processor. Other I/O on board include a Real-Time Clock/Calendar with a battery backup, 512KB of Flash BIOS ROM, and Serial ROM for VxWorks boot parameters.

For even more I/O flexible functions, the GMS V2P4 provides via a third slot the ability to add three PMC modules to the base board. This PMC expansion module contains all the necessary logic and the bridging of the PCI bus, thus all I/O modules are configured during the PCI plug and play cycle. The power for this expansion module is provided via the VME bus P1 and P2. Two of the three PMC modules are also capable of rear panel I/O as well as front panel I/O. This added feature gives the Atlas the I/O modularity/expandability unlike any other product in the industry.

VME operations are supported under Windows NT® with our VMEExpress™ driver, which provides unmatched performance of sustained transfer rates over the VME bus, when compared to other drivers. Further, with an additional transport layer (VME/IP™), the VME bus is transformed into a network, thus allowing TCP/IP network protocol to take place instead of standard VME protocols, eliminating Big/Little Endian, and transfer size issues. Call us or visit our web site for more information on VME/IP.

All major operating systems such as Windows®NT/2000, VxWorks®, Solaris® x86, and Linux® are supported on the V2P4.

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/2000, VxWorks, QNX, Solaris x86, and Linux .

All trademarks are owned by their respective companies.



Headquarters in Rancho Cucamonga, California

YOUR AUTHORIZED REPRESENTATIVE IS:



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