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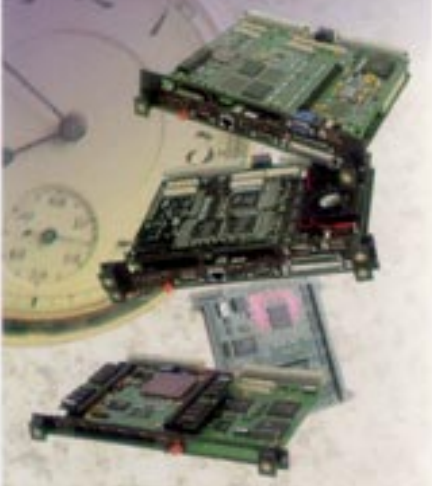
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Find the *General Micro Systems V254* at our website: ***Click HERE***

REDEFINING EMBEDDED REAL-TIME COMPUTER DESIGN



SINGLE/DUAL PENTIUM WORKSTATION ON VME WITH TWO PCI MEZZANINE CARRIER (PMC) SLOTS



V254 Mustang

Single / Dual Pentium Workstation on VME with Two Available PMC Slots

PROCESSORS/ PERFORMANCE:	133-200 MHz Single / Dual P54C Pentium Processors with 512 KB Synchronous Burst SRAM L2 Cache • Single 133 MHz - 4.14 SPECint95 3.12 SPECfp95 • Dual 133 MHz - 7.45 SPECint95 5.65 SPECfp95
VME INTERFACE:	PCI to VME64 bridge for up to A32:D64 transfers. VME support under Windows NT with N4 Communications *DriveVME*
UPGRADABILITY:	CPU module may be upgraded to support the latest processors.
MEMORY:	Uses 4 standard 60 ns 72 pin EDO or Parity SIMM Modules to provide up to 256 MB of user upgradable memory.
I/O FLEXIBILITY:	UltraSCSI, 10 and 100 Base T Ethernet, IDE, Floppy Serial, Mouse, Printer and Keyboard interfaces
I/O EXPANSION:	2 PMC Slots via front panel (PMC Slot 1 I/O may be routed via P2)
GRAPHICS:	SVGA Controller with accelerated 64 bit GUI Engine, up to 1280x1024 at 65K colors with 2 MB DRAM
SOFTWARE:	Windows NT 4.0 and 3.51 (Workstation or Server), VxWorks (Single CPU & Master/Slave versions) and REAL/IX PX.

GENERAL MICRO SYSTEMS
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Single/Dual Pentium with Processor Upgradability

The V254 is comprised of two assemblies: a **Processor Module** and an **I/O Base Board**. The Processor Module may be upgraded or replaced, allowing customers to keep current with the latest processor technology without the expense of redesigning their entire system. The V254 Processor Module supports single or dual Pentium P54C processors, and provides 512 KB of L2 cache. Up to 256 MB of low cost SIMM DRAM can be installed by the user. Two PCI Mezzanine Cards (PMC) can be installed to support application-specific I/O. The Processor Module's PCI bus interfaces directly to the I/O Base Board, which provides extensive workstation I/O capabilities. The I/O Base Board facilities include: UltraSCSI (up to 40 MB/sec.), 10 and 100 Base T/T4 Ethernet with automatic detection and switching, and high performance 64 bit graphics with 2 MB DRAM for resolutions up to 1280 x 1024 at 65K colors. Also included: VMEbus A32:D64 interface, Real-time clock with 4 KB battery-backed NVRAM (SRAM), IDE port, floppy, 2 serial ports, an optional mouse port, a printer port, keyboard connector and PC-AT speaker. User LEDs and a dual 7 segment diagnostic/status display enables quick and easy board diagnostics. These features make the ***V254 one of the most powerful and flexible VME computers available***.

SPECIFICATION:

V254 Processor Module

- ❒ 133-200 MHz Single or Dual P54 Pentium Processors
  - Single 133 MHz - 4.14 SPECint95 3.12 SPECfp95
  - Dual 133 MHz - 7.45 SPECint95 5.65 SPECfp95
- ❒ 512 KB Synchronous Burst SRAM L2 Cache (std)
- ❒ Up to 256 MB DRAM via (4) 72 pin SIMM Sockets
- ❒ 2 PMC Modules (via front panel or 1 front / 1 via P2)
- ❒ Supports +5V PMC Modules

V254 I/O Base Board

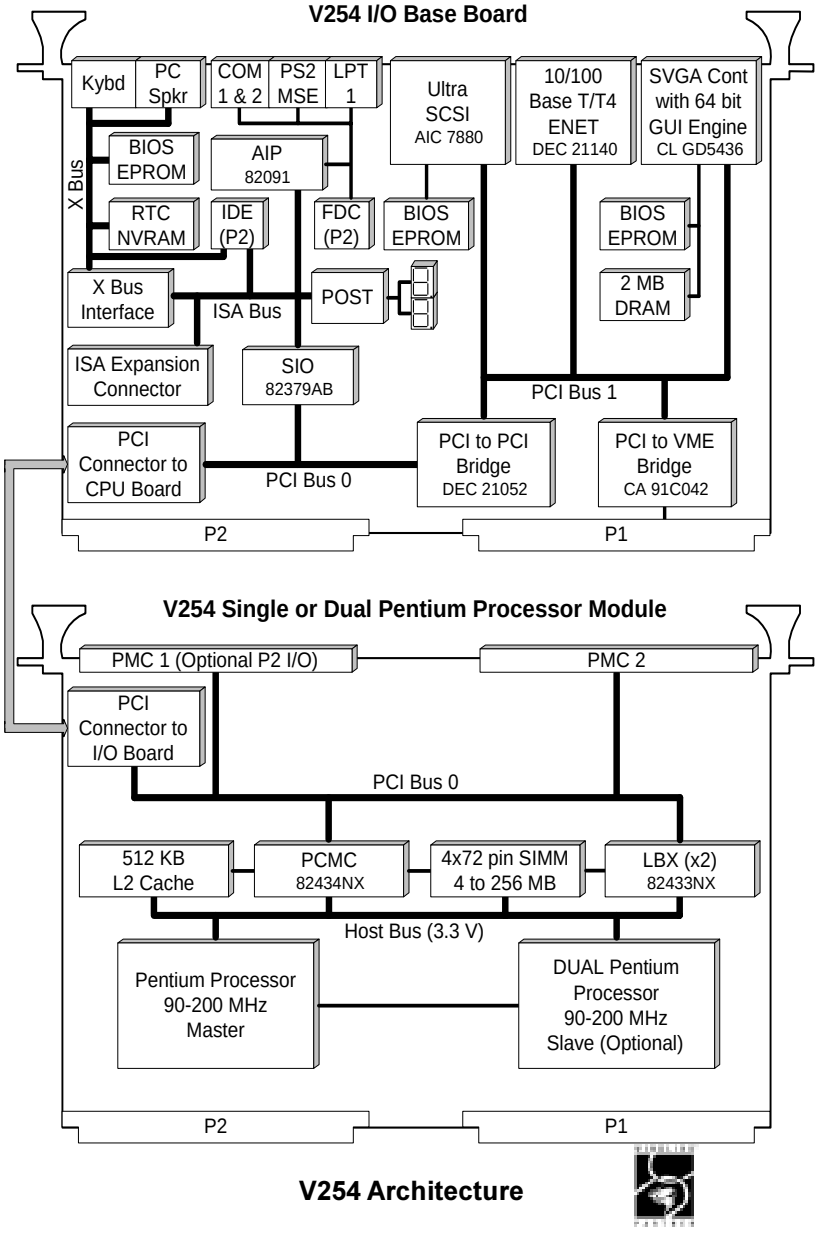
- ❒ 10 and 100 Base T/T4 Ethernet, with automatic detection and switching
- ❒ SVGA Graphics Controller with 64 bit GUI Engine, 2 MB DRAM (std) for resolutions up to 1280 x 1024 at 65K colors, NI or 1024 x 768 at 16M colors, NI
- ❒ UltraSCSI (up to 40 MB/sec), supports up to 16 devices, compatible with SCSI 2 F/W and F/N devices
- ❒ EPROM BIOS for CPU, Graphics, and SCSI
- ❒ Real-Time Clock with 4 KB Battery-Backed SRAM (NVRAM)
- ❒ 2 enhanced Serial Ports and 1 optional Mouse Port
- ❒ 1 enhanced Bidirectional Parallel Printer Port
- ❒ IDE Drive Support - (primary and secondary)
- ❒ Integrated Floppy Disk Controller (3 1/2 & 5 1/4)
- ❒ PS/2 Style Keyboard and PC-AT Speaker Port
- ❒ VME Master/Slave Interface with A32:D64 support
- ❒ POST - Dual 7 Segment Displays, 8 Status LEDs for diagnostics
- ❒ AMI System BIOS

Increased Product Life

Eliminating any obsolescence of PCI devices is an important factor which needs to be taken into account for product longevity. GMS has designed the V254 to be upgradable to the latest chip devices. This is completely transparent to the user.

Software Support

Complete operating system support is provided for Windows NT 4.0 and 3.51, in both Workstation and Server versions. Symmetric Multiprocessing support is supported under both Windows NT 4.0 and 3.51. Real-Time Operating Systems are also supported on the V254 Mustang, including Wind River Systems VxWorks 5.3 and Tornado Development Environment (VxMP pending), and under REAL/IX PX.



V254 Architecture

GENERAL MICRO SYSTEMS

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