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Find the *General Micro Systems V170 "Powerhouse II"* at our website: *Click HERE*

V170 "Powerhouse-II"

High Performance, All Front-Panel I/O with 3 PMC, Pentium® M VME SBC

Key Features:

Baseboard

- Up to 2GHz+ Pentium® M processor with up to 2MB of L2 Cache
- Up to 2GB of low cost DDR-266 memory via two SODIMM modules
- 533 MHz Front Side Bus, with Four independent PCI-X busses
- Ultra-low power requirements as low as 25W Max
- Dual Gigabit Ethernet ports to front panel
- Ultra SCSI-320 with differential outputs
- Supports one 66MHz, 64-bit PMC site
- Ultra high performance dual display video with 64MB of RAM
- 2D/3D video acceleration with OpenGL® and Direct-X® support
- Four USB 2.0 and four Com ports
- Supports one onboard 2.5" IDE HDD/Flash
- Supports VME-64 via Tundra Universe-II®
- 512KB BIOS Flash with Power-On-Self-Test functions
- Support for 5-row or 3-row VME card cages
- Built In Test (BIT) and Extended BIT (EBIT)
- Dual Ultra DMA-100 IDE, PS2 Mouse/Keyboard, RTC and Floppy
- Front panel LEDs for POST code and Status display
- Supports Windows®2000/XP, VxWorks®, Solaris®x86, QNX® and Linux®

Expansion Board

- Three 64-bit, 33/66/100MHz PMC sites, two with Rear I/O
- Two independent PCI-X busses, to allow mix of PMC modules
- PMC Site-3 supports 3V or 5V signaling, at 33/66MHz
- Up to 12W power capability per PMC site
- Dual Ultra SCSI-320 with differential outputs (lose PMC Site-1)
- 2nd RGB VIDEO with Sync-On-Green or dual Com ports (lose PMC Site-1)
- Support for two CompactFlash drives
- Line-In, Line-Out, Microphone Input connectors (lose PMC Site-2)
- Full AC-97 2.3 compliant CODEC
- 20-bit DAC with 103 db SNR Line-Out Audio
- 20-bit 194 KHz sample rate Line-In ADC
- Support for two IEEE-1394B Fire-Wire ports (lose PMC Site-2)
- Each Fire-Wire ports supports data transfers up to 800Mb/s

Highlights:
The V170 “Powerhouse-II" is a 6U, single/dual slot VME Single Board Computer (SBC) specifically designed to provide a solution for upgrading legacy VME SPARC® or Pentium® boards, with the fastest Pentium® M processors from Intel®. It is targeted for systems where all I/O must be accessed via front panel and must utilize 3-row VME connectors.

The Pentium® M was developed by Intel specifically to address the embedded market needs of low power and ultra high performance. The Powerhouse-II supports the M-760 Pentium-M, which operates at 2.0GHz with 2MB of L2 Cache and 533MHz FSB. This incredible performance is achieved with total power consumption of 35W for the entire module, which makes the Powerhouse-II the lowest power consumption, yet the fastest of ANY Pentium®, SPARC® or PowerPC® based VME SBC in the market.

The V170 provides up to 2GB of 266MHz RDDR memory with ECC configured in 128-bit wide, compared to the standard 64-bit wide of all other Pentium® M designs. This unique memory design of the Powerhouse supports the fastest DMA operations between the system memory and high-speed I/O devices. The onboard high-speed devices such as dual Gigabit Ethernet ports, Ultra SCSI-320 and the three PMC sites take full advantage of this added bandwidth and provide unmatched performance without any degradation when all I/O devices are used simultaneously.

The V170 supports two independent video displays each with resolutions of 2048 x 1536 in 24-bit color. Two DB-15, RGB connectors are used. The primary video is accessible via the front panel of the baseboard, while the 2nd channel is accessible via the front panel of the I/O module (2nd Slot). Both RGB ports support Sync-On-Green functions and can be combined to support a 4096 x 1536 screen resolution. This ultra high performance graphic engine with its 64MB of RAM supports 2D and 3D acceleration with OpenGL® and DirectX®.

Standard I/O functions of the baseboard of Powerhouse-II included are: dual Gigabit Ethernet ports, single Ultra Wide SCSI-320, quad USB 2.0, quad Serial ports, PS2 Keyboard/Mouse, dual FireWire-B ports, one PMC site and one 2.5” HDD. Additional I/O on the expansion module included are: three 64-bit/66MHz PMC sites with rear I/O on two of them, dual CompactFlash, dual Ultra SCSI-320, 2nd RGB Video and full audio functions.

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