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Find the *Mercury Computer Systems / Momentum Computer Cheetah-PRS* at our website: *Click HERE*

Cheetah-Prs

PMC Pentium® M Single Board Computer

momentum COMPUTER



Cheetah-Prs shown with CompactFlash card installed

Powerful Pentium M Processing in a PrPMC Format

The ***Cheetah-Prs*** is an Intel Pentium M processor based Single Board Computer in a single wide PMC form factor. It supports a 1.1 GHz Pentium M processor with 1 MByte on-die L2 cache.

The board incorporates the Intel 855GME memory controller that supports a 400 MHz processor bus and single channel 64-bit DDR333 SDRAM with ECC. An Intel 6300ESB I/O Controller Hub handles the extensive I/O capability of the Cheetah-Prs.

An Intel 82546EB provides PICMG 2.15 PTMC compliant Dual Gigabit Ethernet links on the PMC Pn4 connector through a 64-bit 66 MHz PCI-X bus on the I/O Controller Hub. A PLX PCI6540 PCIX-to-PCIX bridge provides 64-bit 133/100/66 MHz PCI-X or 66/33 MHz PCI bus operation on the PMC interface.

The Cheetah-Prs provides a wide range of I/O and storage interfaces through the front panel and PMC Pn4 connector.

VERSATILE I/O:

- Serial ATA 150 interface on the PMC Pn4 connector.
- Front panel VGA HD15 interface.
- Four USB2.0 ports with two on the front panel and two on Pn4 connector.
- Two 10/100/1000Base-T Ethernet links on the PMC Pn4 connector (PICMG 2.15).
- Two serial ports on the PMC Pn4 connector.

MEMORY AND STORAGE:

- Up to 1 Gbyte of 64-bit DDR333 SDRAM with ECC.
- Side accessible Type I or Type II CompactFlash® socket.
- 1-Mbyte Firmware Hub (FWH).

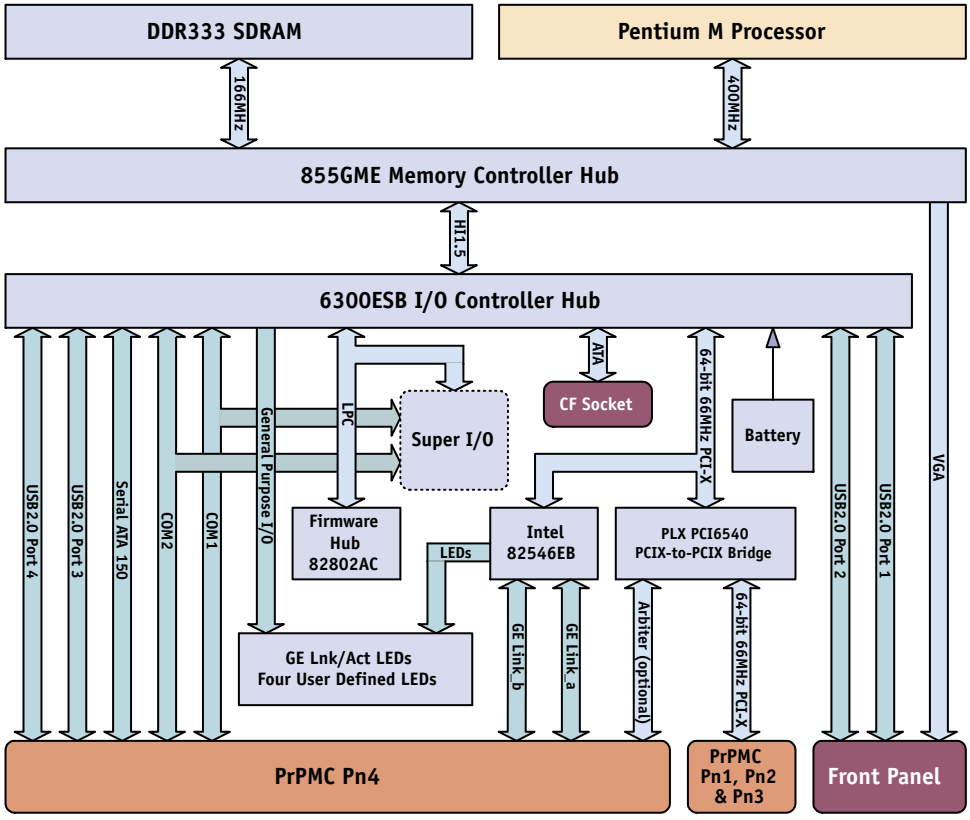
FEATURE SET:

- Intel Pentium-M Processor running at 1.1 GHz core frequency and 400 MHz Processor System Bus frequency.
- 149mm x 74mm PMC form factor with single load on the PMC PCI-X/PCI bus (IEEE P1386/P1386.1).
- 21.3mm height within single slot AdvancedTCA envelope using 10mm stacking connector.
- 64-bit 133/100/66 MHz PCI-X or 66/33 MHz PCI bus Monarch/Non-Monarch PrPMC operation (VITA 32 Draft).
- Optional PMC arbiter on Pn4 that supports four external PCI master devices.
- 10 KByte FIFOs on PMC PCI buffering.
- Battery backed Real Time Clock.
- Gigabit Ethernet Link/Activity LED indicator.
- Four User Defined LEDs through I/O Controller Hub GPIO signals.
- Windows 2000/XP, FreeBSD, Linux, Solaris and VxWorks Operating Systems.
- 0-55°C operating temperature (ambient).

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Cheetah-Prs

PMC Pentium® M Single Board Computer





The compact Cheetah-Prs design fits into a single slot AdvancedTCA envelope.

If the Cheetah-Prs doesn't fit your specific requirements:

Momentum Computer specializes in quick turn custom development and production of high performance processor boards and I/O boards.

Custom designs give you a competitive edge by providing the unique features needed for a leading market position.

Custom designs by Momentum Computer are accomplished so rapidly that time-to-market targets can be met with confidence.

We're ready to work for you.

momentum COMPUTER

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