

PEAK 635A

Full-size Socket 370 Celeron/Coppermine AIO CPU Card

100 MHz FSB Socket 370

168 pin DIMM x 2 up to 512MB SDRAM

Intel Celeron/Coppermine
up to 700MHz

Intel 82440BX AGP Set

C&T 69000 VGA

Initio 1060P UW/U2 SCSI

MXIC 98725 10/100 Base Ethernet



Introduction

The PEAK 635A is an all-in-one full-size single board computer built with high performance, cost-effective Celeron and Coppermine Socket 370 CPU, high performance PCI Bus and I/O's, huge memory support, and complies with the new PICMG standard. Furthermore, this is the most versatile Socket 370 SBC designed with all advanced features on board. The PEAK 635A can run with Intel Socket 370 Coppermine up to 700 MHz and memory support up to 512 MB SDRAM that greatly enhances the computing power.

Features

- ◆ Intel Celeron/Coppermine CPU with 66/100 MHz FSB up to 700MHz
- ◆ 512MB SDRAM (Max.) memory support, DIMM x 2
- ◆ Intel 440BX AGP set
- ◆ C&T 69000 AGP mode VGA Controller with CRT/LCD support
- ◆ MXIC MX98725 10/100 Base Ethernet Controller
- ◆ Initio 1060P UW/U2 SCSI Controller
- ◆ NSTL Compatibility Test approved
- ◆ On board socket for DiskOnChip up to 144MB
- ◆ ISAMAX support
- ◆ PICMG full-size SBC

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<http://www.nexcom.com>



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PEAK 635A

Specifications

System Architecture

- Full size SBC with PCI/ISA Golden finger
- Intel Socket 370 Celeron/Coppermine with 66/100MHz FSB
- PCI V2.1 complied
- PICMG 1.0 (Rev.2.0) complied

CPU Support

- Intel Celeron/Coppermine CPU with 128/256 L2 cache on die
- Brand New Socket 370 CPU running at 66/100MHz FSB up to 700MHz
- On board intelligent switching type power regulator

Main Memory

- Support SDRAM up to 512MB (Max.)
- 168 pin DIMM socket×2
- ECC support (single bit error correction/Multiple bit errors reporting)

BIOS

- Award System BIOS
- Plug & Play support
- Advanced Power Management support
- Advanced Configuration & Power Interface support
- 2M bits flash ROM

Chip Set

- Intel 82440BX AGP set
- 66/100MHz FSB support
- PCI V2.1 complied
- Optimized SDRAM support

On Board VGA

- C&T 69000 AGP mode VGA controller
- TFT LCD/DSTN LCD/CRT control
- 2MB SDRAM on die
- Maximum Res. Color & Refresh Rate

Resolution	Colors	Refresh Rate (Hz)
1280×1024	256	60
1024×768	16bits (High color)	85, 75, 60
800×600	24bits (True color)	85, 75, 60

- Driver support: Windows 95/98, Windows NT4.0
- 15 pin CRT connector×1, 50 pin LCD panel connector×1

On Board LAN

- MXIC 98725 single chip Ethernet controller
- 10 Base T/100 Base TX support, full duplex
- Complied with PCI V2.1, IEEE802.3, IEEE 802.3U
- Driver support: DOS/Windows, Windows 95/98, Windows NT4.0
- RJ45 connector×1

On Board SCSI

- Initio INIC-1060P SCSI controller
- Brand New Ultra 2 SCSI support
- 80MB/s (Max.) transfer rate, 12 meter cable support
- Backward compatible with Ultra Wide SCSI, SCSI II, etc.
- Driver support: Windows 95/98, Windows NT4.0
- 68 pin SCSI connector×1

On Board I/O

- Winbond 83977 Super I/O on board
- SIO×2, with 2×16C550 UARTs, 9 pin D-type×1, 10 pin connector×1
- PIO×1, Bi-directional, EPP/ECP support, 26 pin×1

- Floppy Disk controller: 5.25" 360K/1.2MB, 3.5" 720K/1.2MB/1.44MB/2.88MB support, 34 pin connector×1
- PCI IDE Hard Disk Interfaces: support up to four enhanced IDE devices up to mode 4 PIO and mode 2 DMA Master, also support Ultra DMA 33
- On chip keyboard/Mouse concroller, 5pin connector×1(for other keyboard); 6 pin min DIN connector×1, PS2 keyboard /Mouse share by Y cable (for PEAK 635VL/PEAK 635A) 6pin mini DIN connector ×2 (for PEAK 635/PEAK 635V)
- On board USB port×2 with 6 pin header×1
- On board buzzer×1
- On board 2 pin header for reset SW, 4 pin for speaker, 5 pin for keylock
- On board 2 pin header for I²C

On Board RTC

- High precision real time clock/calendar with battery back up

On Board Solid State Disk Socket

- On board reserved socket for DOC of M-systems: 2MB-144MB, etc

System Monitor

- Genesys GL520 system monitor controller
- Four voltage values (for +3.3V, +5V, +12V and Vcore)
- One Fan speed (For CPU)
- One temperature
- Drivers support: Windows 95/98, Windows NT4.0

ISAMAX Support

- Maximize ISA signals to support ISA cards up to 20

Watchdog Timer

- 1,2,4...64 seconds time-out intervals

Dimensions

- 340mm(L)×122mm(W)

Power Requirements

- +5V : 8A (Max.)
- +12V : 400mA (Max.)
- -12V : 20mA (Max.)

Environments

- Operating temperatures: 0°C to 60°C
- Storage temperatures: -20°C to 80°C
- Relative humidity: 10% to 90% (Non-condensing)

Certification

- CE approval
- FCC Class A
- NSTL compatibility test

Model Available

PEAK 635A

- Full-size Socket 370 Celeron/Coppermine AIO CPU Card

PEAK 635VL

- Full-size Socket 370 Celeron/Coppermine CPU Card w/ VGA/LAN

PEAK 635V

- Full-size Socket 370 Celeron/Coppermine CPU Card w/ VGA

PEAK 635

- Full-size Socket 370 Celeron/Coppermine CPU Card

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