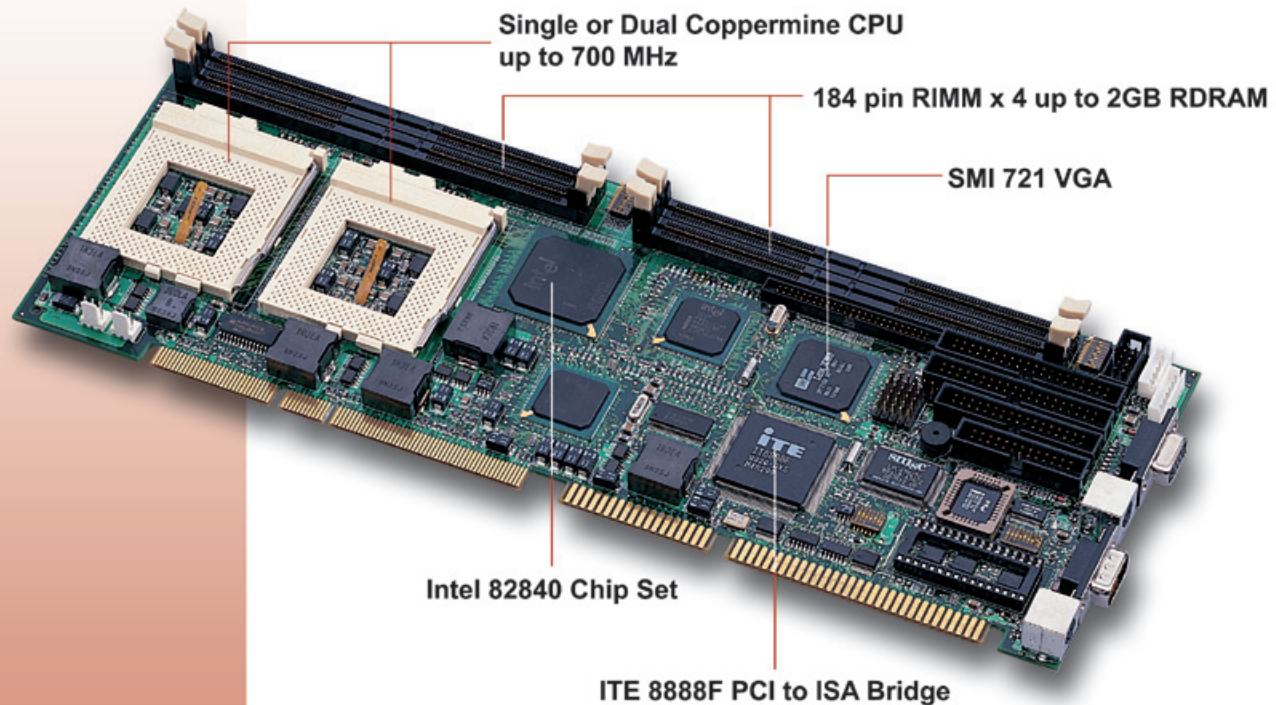


# PEAK 6422V

Full-size Dual Socket 370 Coppermine CPU Card  
w/ VGA/RDRAM

64 Bit & 66 MHz PCI w/RDRAM



## Introduction

The PEAK 6422V is one of NEXCOM's newest innovations on 64 bit / 66 MHz computing platform, representing a brand new generation of advanced technologies. It is a full-size single board computer built with high performance Dual Socket 370 Coppermine CPU running 100/133 MHz FSB, high performance 64 bit /66 MHz PCI Bus and I/O's, huge memory support (up to 2GB RDRAM), VGA on board, and complies with the new PICMG standard.

## Features

- ◆ Intel Dual Coppermine CPU with 100/133MHz FSB up to 700MHz
- ◆ 2GB RDRAM (Max.) memory support, RIMM x 4
- ◆ Intel 840 chipset support 64 bit and 66MHz PCI bus
- ◆ SMI 721 AGP mode VGA Controller with CRT/LCD support
- ◆ On board socket for DiskOnChip up to 144MB
- ◆ ISAMAX support
- ◆ PICMG full-size SBC

# PEAK 6422V

## Specifications

### System Architecture

- Full size SBC with PCI/ISA Golden finger
- Intel brand new 840 chipset with 100/133 MHz FSB
- Support Dual Coppermine Socket 370 CPU up to 700 MHz
- PCI V2.2 complied
- PICMG 1.0 (Rev. 2.0) complied
- Intel MPS1.1/1.4 specification complied

### CPU Support

- Intel Coppermine CPU with 256K cache on-die
- Brand new socket 370 FC-PGA CPU running at 100/133 MHz FSB up to 700MHz
- Dual CPU support
- Support streaming SIMD instruction

### Main Memory

- Support RDRAM up to 2GB(Max.)
- 184 pin RIMM socket x 4
- 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
- 4M bits flash ROM

### Chip Set

- Intel 840 Chipset support up to 2-way configurations
- 64-bit and 66MHz PCI interface
- 82840 x 1 Memory Controller Hub (MCH)
- 82801 x 1 I/O Controller Hub (ICH)
- 82802 x 1 Firmware Hub (FWH)
- 82806 x 1 PCI 64 Hub (P64H)
- ITE 8888F x 1 PCI to ISA Bridge

### On Board VGA

- SMI 721 3D VGA controller
- Built in 64-bit SDRAM to support 4/8MB memory and 2X AGP
- LCD panel display supports
- Up to 1280 x 1024 resolution
- Driver support : Windows95/98/NT4.0, Windows2000, OS2
- 15 pin CRT connector x 1, 50 pin LCD panel connector x1

### On Board I/O

- SMSC LPC47B272 Enhanced Super I/O on board
- SIOx2, with 2x16C550 UARTs, 9 pin D-type x 1, 10 pin header x 1 Optional RS422/485 x 1
- PIOx1, bi-directional, EPP/ECP support, 26 pin x 1
- Floppy Disk controller: 5.25" 360K/1.2MB, 3.5" 720K/1.2MB/1.44MB/2.88MB support, 34 pin x 1

- On chip enhanced IDE x 2, PIO up to mode 4, DMA master up to mode 2, Ultra DMA/66 support, 40 pin x 2, total 4 E.IDE devices support
- On chip Keyboard, mouse controller,connector x 1(for other keyboard); 6pin mini DIN connector x 2,PS/2 keyboard/mouse
- On board USB port x 2 (6 pin header x 1)
- On Board buzzer x 1
- On Board 2 pin header for reset sw, 4 pin for speaker, 5 pin for keylock
- On board 2 pin header for I<sup>2</sup> C

### On Board Solid State Disk Socket

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

### System Monitor

- Winbond W83782D system monitor controller
- Seven voltage (For +3.3V, +5V, +12V, -12V, Vtt and Vcore x 2)
- Two Fan speed (For CPU)
- Three 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

- Dimensions: 340mm(L) x 122mm(W)

### Power Requirements

- +3.3V: 10A(Max)
- +5V: 20A(Max)
- +12V: 500mA(Max)
- -12V: 50mA(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

## Model Available

### PEAK 6422V

- Full-size Dual Socket 370 Coppermine CPU Card w/VGA/RDRAM

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- Full-size Dual Socket 370 Coppermine CPU Card w/RDRAM