

# PEAK 6320A

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

100 MHz FSB Dual Coppermine

Intel 82440BX AGP set

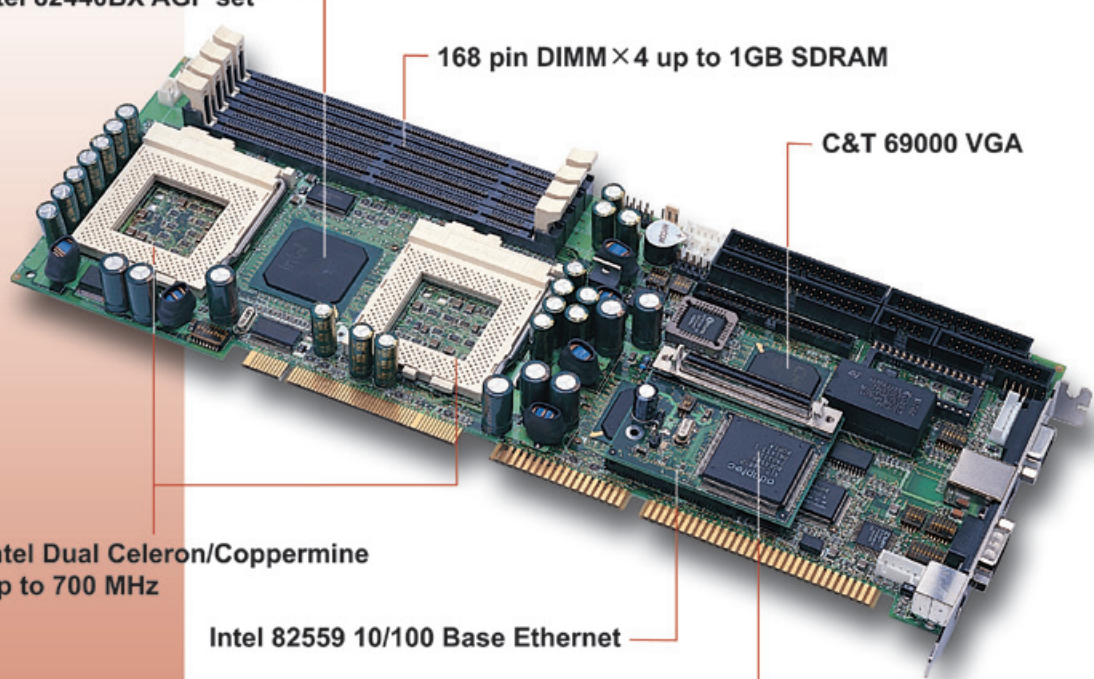
168 pin DIMM × 4 up to 1GB SDRAM

C&T 69000 VGA

Intel Dual Celeron/Coppermine  
up to 700 MHz

Intel 82559 10/100 Base Ethernet

Adaptec 7880 UW SCSI



## Introduction

The PEAK 6320A is a full-size single board computer, built with high performance Dual Celeron/Coppermine FC-PGA CPU running 66/100MHz memory Bus, high performance PCI Bus and I/O's, huge memory support, and complies with the new PICMG standard. The PEAK 6320A can run with Dual Intel Coppermine processor up to 700 MHz, memory support up to 1 GB SDRAM. It's the best product with excellent cost/performance ratio for the system integrators in various Mission Critical and heavy-duty applications.

## Features

- ◆ Intel Dual Celeron/Coppermine CPU with 66/100MHz FSB up to 700MHz
- ◆ 1GB SDRAM (Max.) memory support, DIMM x 4
- ◆ Intel 440BX AGP set
- ◆ C&T 69000 AGP mode VGA Controller with CRT/LCD support
- ◆ Intel 82559 10/100 Base Ethernet Controller
- ◆ Adaptec 7880 Ultra Wide SCSI Controller (option)
- ◆ On board socket for DiskOnChip up to 144MB
- ◆ ISAMAX support
- ◆ PICMG full-size SBC



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NEXCOM Taipei Office  
NEXCOM International Co., LTD.  
10F-13, No.16, Lane 609, Chung-Hsin Rd., Sec 5,  
San-Chung City, Taipei Hsien 241, Taiwan  
Tel: 886-2-22782215  
Fax: 886-2-22782480  
E-mail: nexcom@nexcom.com.tw

NEXCOM UK Branch Office  
NEXCOM (UK) LTD.  
Cromwell Business Center  
14 Howard Way, Newport Pagnell,  
Milton Keynes, MK 16 9QS, U.K.  
Tel: 44-1908-21 88 77  
Fax: 44-1908-21 88 67  
E-mail: sales@nexcomuk.com.uk

NEXCOM USA Branch Office  
Nex Computers Inc.  
46560 Fremont Blvd., #401  
Fremont, CA 94538, U.S.A.  
Tel: 510-656-2248  
Fax: 510-656-2158  
E-mail: daniel@nexcom.com

# PEAK 6320A

## Specifications

### System Architecture

- Full size SBC with PCI/ISA Golden finger
- Intel dual Socket 370 Celeron/Coppermine with 66/100MHz FSB
- PCI V2.1 complied
- PICMG 1.0 (Rev.2.0) complied
- Intel MPS1.1 specification complied

### CPU Support

- Intel Celeron/Coppermine CPU with 128/256K cache on die
- Brand New Socket 370 FC-PGA CPU running at 66/100MHz FSB up to 700MHz
- Dual CPU support
- Support streaming SIMD instruction
- On board intelligent switching type power regulator×2

### Main Memory

- Support SDRAM up to 1GB (Max.)
- 168 pin DIMM socket×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
- 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

- Intel 82559 Single Ethernet controller
- 10 Base T/100 Base TX support, full duplex
- Complied with PCI V2.1, IEEE802.3, IEEE 802.3U
- Backward compatible with former 82558 Ethernet controller base net modules
- Driver support: DOS/Windows, Windows 95/98, Windows NT4.0, Netware, SCO Open Server 5.0
- RJ45 connector×1

### On Board SCSI Socket - through Nexcom proprietary PCI interface

- Adaptec 7880 SCSI controller (EBK SCSI Module)
- Driver support: Windows 95/98, Windows NT, SCO

### On Board I/O

- Winbond W83977 Super I/O on board
- SIO×2, with 2×16C550 UARTs, 9 pin D-type×1, 10 pin HEADER×1, optional RS422/485×1

- 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
- On chip enhanced IDE×2, PIO up to mode 4, DMA master up to mode 2, Ultra DMA/33 support, 40 pin×2, total 4 E.IDE Devices support
- On chip keyboard/Mouse controller, 5pin connector×1 (for other keyboard); 6pin min DIN connector×1, PS2 keyboard/Mouse share by Y cable (for PEAK 6320VL / PEAK 6320A); 6pin mini DIN connector×2 (for PEAK 6320 / PEAK 6320V)
- On board USB port×2 (6 pin header×1)
- On board buzzer
- 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 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

- Winbond W83782D system monitor controller
- Seven voltage (For +3.3V, +5V, +12V, -12V, Vtt and Vcore×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

- 340mm(L)×122mm(W)

### Power Requirements

- +5V: 20A (Max.)
- +12V: 400mA (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 6320A

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

### PEAK 6320VL

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

### PEAK 6320V

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

### PEAK 6320

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

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