# PEAK 6220

## Full-size Dual Slot 1 Pentium II/III CPU Card

### Support 4 DIMM to 1GB SDRAM

Intel Dual Pentium II/III
up to 700 MHz

168 pin DIMM x 4
up to 1 GB SDRAM

Intel 82440BX AGP Set

NSTL
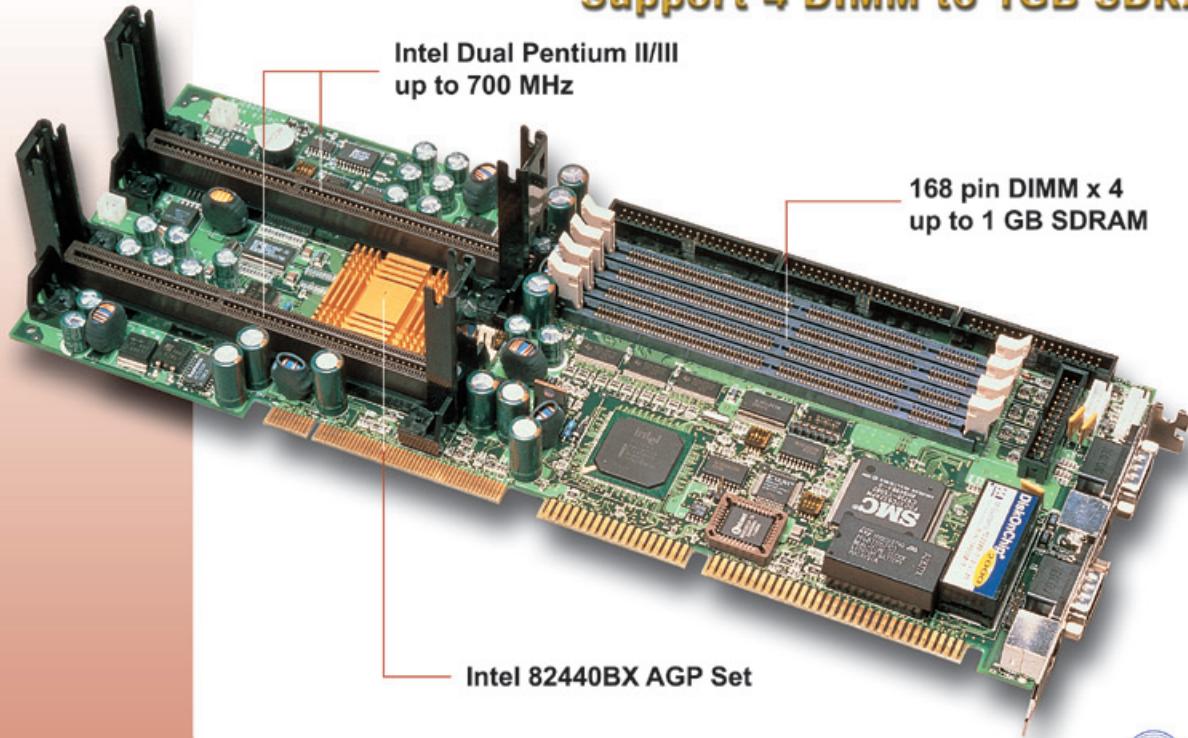
## Introduction

The PEAK 6220 is a full-size single board computer built with high performance Dual Pentium II/III CPU running 100 MHz memory Bus, high performance PCI Bus and I/O's, huge memory support (1 GB), and complies with the new PICMG standard. Supporting Dual Intel Pentium II/III processor up to 700 MHz and memory support up to 1 GB SDRAM, the PEAK 6220 is a powerful computing engine that is suitable for various industrial applications.

## Features

◆ Intel Dual Pentium II/III CPU with 66/100MHz FSB up to 700MHz
◆ 1GB SDRAM (Max.) memory support, DIMM x 4
◆ Intel 440BX AGP set
◆ NSTL Compatibility Test approved
◆ On board socket for DiskOnChip up to 144MB
◆ ISAMAX support
◆ PICMG full-size SBC

# PEAK 6220

## Specifications

### System Architecture
- Full size SBC with PCI/ISA Golden finger
- Intel MPS1.1 complied
- PCI V2.1 complied
- PICMG 1.0 (Rev.2.0) complied

### CPU Support
- Intel Pentium II/III CPU with 512K L2 cache on CPU module
- Slot 1 CPU running at 66/100MHz FSB up to 700MHz
- Dual CPU support
- 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
- 2M bits flash ROM

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

### On Board I/O
- SMSC 37C932 Super I/O on board
- SIO×2, with 2×16C550 UARTs, 9 pin D-type×1, 10 pin connector×1, optional RS422/485×1
- PIO×1, Bi-directional, EPP/ECP support, 26 pin connector×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 Device support
- On chip keyboard, mouse controller, PS/2 keyboard/mouse, 6 pin mini DIN×2
- On board USB port×2
- On board buzzer×1
- On board 2 pin header for reset SW, 4 pin for speaker, 5 pin for keylock
- Additional power connector: 4 pin male power connector on board

### 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)
- Two Fan speed (For CPU)
- Two 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
- 338mm(L)×122mm(W)

### Power Requirements
- +5V: 20A (Max.)
- +12V: 500mA (Max.)
- -12V: 50mA (Max.)

### Environments
- Operating temperatures: 0°C to 55°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 6220
- Full-size Dual Slot 1 Pentium II/III CPU Card

**NEXCOM**