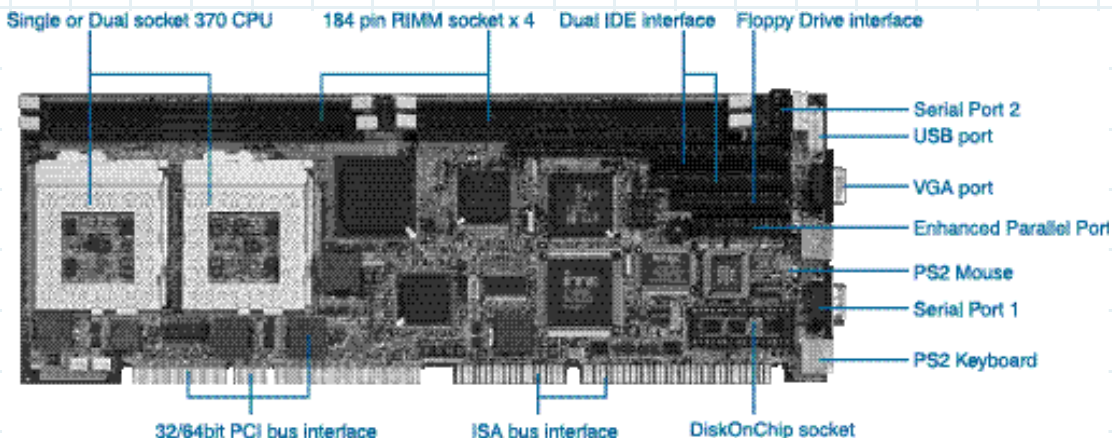


# PEAK 6422V Full-size Dual Socket 370 Pentium III CPU Card w/VGA/RDRAM

INDUSTRIAL COMPUTERS SERIES

64 Bit & 66 MHz PCI w/RDRAM



## INTRODUCTION

The PEAK 6422V is one of NEXCOM's innovations on 64 bit/66MHz 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 Pentium III CPU running at 100/133MHz FSB, high performance 64 bit/66MHz 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 Pentium III CPU with 100/133 MHz FSB up to 1GHz  
2GB RDRAM(Max.) memory support, RIMM x 4  
Intel 840 chipset support 64 bit and 66MHz PCI bus  
C&T 69000 VGA Controller with CRT/LCD support  
On board socket for DiskOnChip up to 144MB  
ISAMAX support  
PICMG full-size SBC

## SPECIFICATIONS

### System Architecture

Full size SBC with PCI/ISA Golden finger  
Intel 840 chipset with 100/133MHz FSB  
Support Dual Socket 370 Pentium III CPU up to 1GHz  
PCI V2.2 compliant  
PICMG 1.0 (Rev. 2.0) compliant  
Intel MPS1.1/1.4 specification compliant

### CPU Support

Intel Pentium III CPU with 256K cache on-die  
Socket 370 FC-PGA CPU running at 100/133MHz FSB up to 1GHz  
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  
64bit 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**

C&T 69000 VGA controller (PCI mode)  
TFT LCD/DSTN LCD/CRT control  
2MB SDRAM on die  
Up to 1280 x 1024 resolution  
Maximum Res. Color & Refresh Rate

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

Drivers support: Windows 95/98/2000, Windows NT4.0  
15 pin CRT connector x 1, 50 pin LCD panel connector x 1

**On Board I/O**

SMSC LPC47B272 Enhanced Super I/O on board  
SIO x 2, with 2 x 16C550 UARTs, 9 pin D-type x 1, 10 pin header x 1, Optional RS422/485 x 1  
PIO x 1, bi-directional, EPP/ECP support, 26 pin x 1  
Floppy Disk controller: 5.25" 360KB/1.2MB, 3.5" 720KB/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, 5 pin connector x 1 (for other Keyboard); 6 pin 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 95/98/2000, 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) x 122mm(W)

**Power Requirements**

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

**Environments**

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

**Certification**

CE approval  
FCC Class A

**MODELS AVAILABLE**

- ✓ **PEAK 6422V** - Full-size Dual Socket 370 Pentium III CPU Card w/VGA/RDRAM
- ✓ **PEAK 6422** - Full-size Dual Socket 370 Pentium III CPU Card w/RDRAM