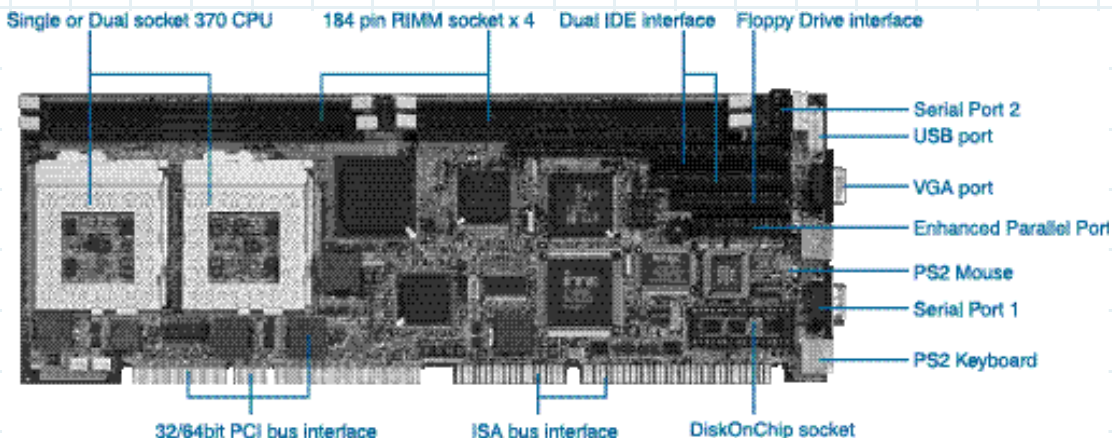


PEAK 6422V Full-size Dual Socket 370 Pentium III CPU Card w/VGA/RDRAM

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 I²C

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