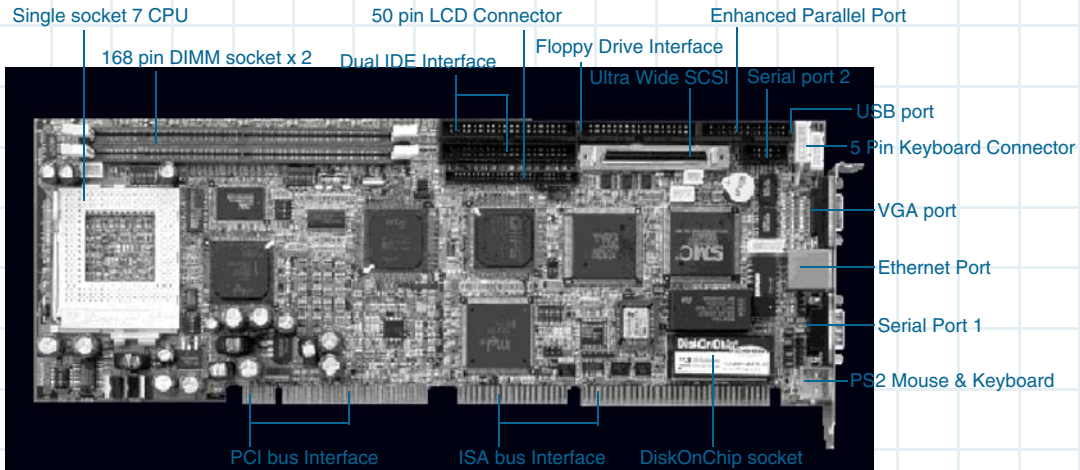


# PEAK 570A

Full-size Socket 7 Low Power  
All-in-One CPU Card

INDUSTRIAL COMPUTERS SERIES

Intel Low Power CPU



## INTRODUCTION

The PEAK 570 is a full-size single board computer built with high performance, cost-effective Pentium/Socket 7 CPU up to 400MHz, high performance PCI Bus and I/O's, huge memory support (256MB), and complies with the new PICMG standard. Further more, this is the first Pentium Socket 7 SBC designed with all advanced features in one SBC. The PEAK 570 can run with Intel Pentium MMX processor up to 266MHz, AMD K6-2 up to 400MHz, and memory support up to 256 MB SDRAM. NEXCOM's PEAK 570 supports the full configuration of PCI add-on cards with ultra reliability, in addition, it is built the expensive PCI bridge controller -- the DEC 21152 on-board.

## FEATURES

- Intel Pentium MMX up to 266MHz, AMD K6-2 up to 400MHz
- Low Power CPU support
- 512KB P.B. SRAM cache
- 256MB SDRAM (Max.) memory support, DIMM x 2
- Intel 82430TX PCI set
- C&T 69000 VGA Controller with CRT/LCD support
- Intel 82558 10/100 Base Ethernet Controller

- Adaptec 7880 Ultra Wide SCSI Controller
- NSTL Compatibility Test approved
- 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
- All socket 7 CPU support
- PCI V2.1 compliant
- PICMG 1.0 (Rev.2.0) compliant

### CPU Support

- Intel Pentium MMX CPU up to 266MHz
- Other compatible socket 7 CPU (AMD K6-2, Cyrix 6x86MX) support up to 400MHz
- Low power CPU support

### Cache Memory

- 512KB Pipeline Burst SRAM cache memory

### Main Memory

- Support EDO/SDRAM up to 256MB (Max.)
- 168 pin DIMM socket x 2

### BIOS

- Award System BIOS
- Plug & Play support
- Advanced Power Management support
- Advanced Configuration & Power Interface support
- 2M bits flash ROM





**Chip Set**

Intel 82430TX PCI set  
PCI V2.1 compliant  
Optimized SDRAM support

**On Board VGA**

C&T 69000 VGA controller  
TFT LCD/DSTN LCD/CRT controller  
2MB SDRAM on die  
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

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

**On Board LAN**

Intel 82558 Single Ethernet controller  
10 Base T/100 Base TX support, full duplex  
Complies with PCI V2.1, IEEE802.3,  
IEEE802.3U  
Backward compatible with former 82557  
Ethernet controller based net modules  
Driver support: DOS/Windows, Windows  
95/98/2000, Windows NT4.0, SCO Open  
Server 5.0  
RJ45 connector x 1

**On Board SCSI**

Adaptec AIC 7880 RISC SCSI controller  
Ultra Wide SCSI up to 40MB/s data transfer  
rate  
Backward compatible with wide SCSI, SCSI  
II...etc.  
Driver support: Windows 95/98/2000, Windows  
NT4.0, SCO Open Server, Novell, Netware  
68 pin SCSI connector x 1

**On Board I/O**

SMSC 37C932 Super I/O on board  
SIO x 2, with 2 x 16C550 UARTs, 9 pin D-  
type x 1, 10 pin connector x 1  
PIO x 1, Bi-directional, EPP/ECP support, 26  
pin connector x 1  
Floppy disk controller: 5.25" 360KB/1.2MB,  
3.5" 720KB/1.2MB/1.44MB/2.88MB support,  
34 pin x 1  
PCI IDE Hard Disk Interfaces: support up to  
four enhanced IDE devices up to mode 4 PIO  
and mode 2 DMA Master also support Ultra  
DMA 33, 40 pin connector x 2

On chip keyboard, mouse controller, PS/2, 6  
pin mini DIN x 1 for keyboard/mouse  
On board USB port x 2 with 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, 5 pin header  
(keyboard)  
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

**Watchdog Timer**

1,2,4...64 seconds time-out intervals

**System Monitor Feature**

Genesys GL518 system monitor controller  
Four voltage values (For +5V, +12V, +3.3V  
and Vcore)  
One Fan speed (For CPU)  
One temperature  
Drivers support: Windows 95/98/2000,  
Windows NT4.0

**ISAMAX**

ISA signals enhanced to support 20 ISA Slots

**Dimensions**

340mm(L) x 122mm(W)

**Power Requirements**

+5V: 10A (Max.)  
+12V: 50mA (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  
NSTL compatibility test

**MODELS AVAILABLE**

- ✓ **PEAK 570A** - Full-size Socket 7 All-in-One CPU Card
- ✓ **PEAK 570VL** - Full-size Socket 7 CPU Card w/VGA/LAN
- ✓ **PEAK 570V** - Full-size Socket 7 CPU Card w/VGA
- ✓ **PEAK 570** - Full-size Socket 7 CPU Card