PEAK 570A
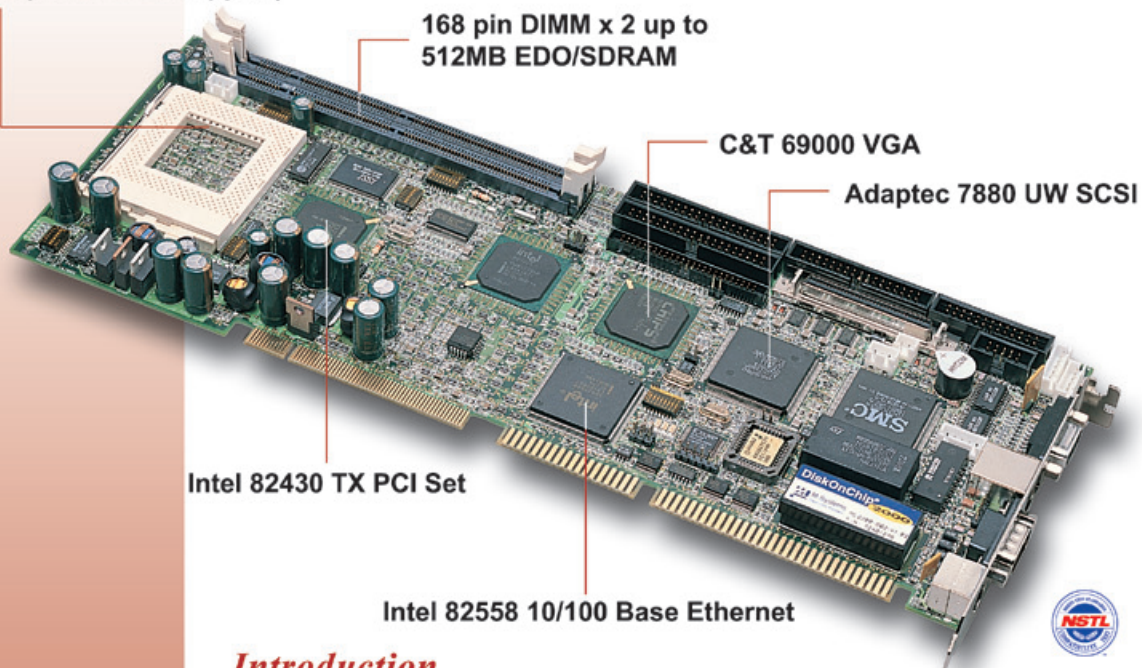
Full-size Socket 7 Low Power AIO CPU Card

All socket 7 CPU up to 400MHz
(Low power CPU support)

Intel Low Power CPU

168 pin DIMM x 2 up to
512MB EDO/SDRAM

C&T 69000 VGA

Adaptec 7880 UW SCSI

Intel 82430 TX PCI Set

Intel 82558 10/100 Base Ethernet

Introduction

The PEAK 570A is a full-size single board computer built with high performance, cost-effective Pentium/Socket 7 CPU up to 400 MHz, 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 570A can run with Intel Pentium MMX processor up to 266 MHz, AMD K6-2 up to 400 MHz, and memory support up to 256 MB SDRAM. NEXCOM's PEAK 570A 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 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

NEXCOM

http://www.nexcom.com

CE

TÜV
CERT
DIN EN ISO 9001

PEAK 570A
Specifications

System Architecture
- Full size SBC with PCI/ISA Golden finger
- All socket 7 CPU support
- PCI V2.1 complied
- PICMG 1.0 (Rev.2.0) complied

CPU Support
- Intel Pentium MMX CPU up to 266MHz
- Other compatible socket 7 CPU (AMD K6, Cyrix 6×86MX) 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×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 complied
- 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)
1280×1024	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 82558 Single Ethernet controller
- 10 Base T/100 Base TX support, full duplex
- Complied 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, Windows NT4.0, SCO Open Server 5.0
- RJ45 connector×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, Windows NT4.0, SCO Open Server, Novell, Netware
- 68 pin SCSI connector×1

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
- 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×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
- On chip keyboard, mouse controller, PS/2, 6 pin mini DIN×1 for keyboard/mouse
- On board USB port×2 with 6 pin header×1
- On board buzzer×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^{2}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, Windows NT4.0

ISAMAX
- ISA signals enhanced to support 20 ISA Slots

Dimensions
- 340mm(L)×122mm(W)

Power Requirements
- +5V: 10A (Max.)
- +12V: 500mA (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

Model Available

PEAK 570A
- Full-size Socket 7 AIO 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

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