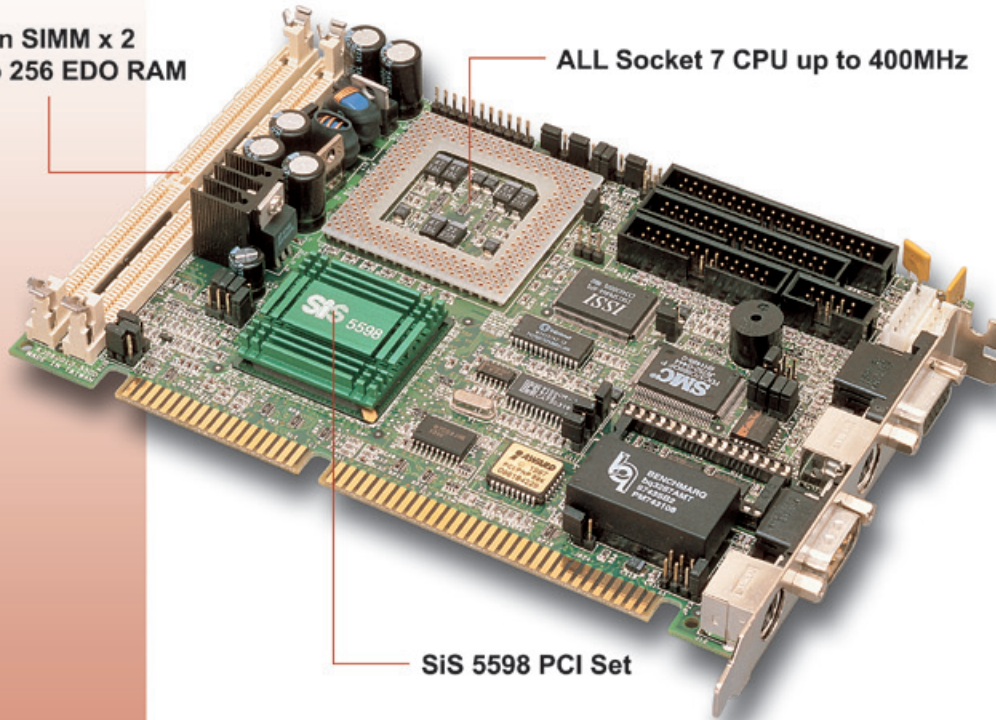# PEAK 550

Half-size Socket 7 CPU Card w/VGA

72 pin SIMM x 2
up to 256 EDO RAM

ALL Socket 7 CPU up to 400MHz

SiS 5598 PCI Set

Introduction

The PEAK 550 is a half-size single board computer built with high performance Pentium CPU and compatible, high performance PCI Bus and I/O's. The brand new technologies in the pipeline burst cache and the 3rd generation VGA with Unified Memory Architecture (UMA) are included. The PEAK 550 can run with Intel Pentium processor up to 233 MHz, the brand new compatible CPU such as AMD K6; Cyrix M2 is also supported. Supporting memory up to 512 KB pipeline burst cache and 256 MB EDO RAM, the PEAK 550 generates great computing power.

Features

◆ All socket 7 CPU supports up to 400MHz
◆ 512KB P.B. SRAM cache
◆ 256MB EDO (Max.) memory support, SIMM x 2
◆ SiS 5598 PCI set (VGA controller on die)
◆ On board socket for DiskOnChip up to 144MB
◆ ISAMAX support
◆ Half-size ISA bus SBC

PEAK 550

Specifications

System Architecture

- Half size SBC with ISA Golden finger
- All socket 7 CPU support
- Single chip system core logic/VGA/Video Accelerator

CPU Support

- Intel Pentium P54C/P55C up to 233MHz
- Cyrix 6×86/M2 up to 200MHz
- AMD K5/K6 up to 233MHz
- AMD K6-2 up to 400MHz

Cache Memory

- 512KB Pipeline Burst SRAM cache memory

Main Memory

- Support Fast Page/EDO memory up to 256MB (Max.)
- Single SIMM power on and run
- 72 pin SIMM socket×2

BIOS

- Award System BIOS
- Plug & Play support
- Advanced Power Management support
- 2M bit flash ROM

Chip Set

- SIS 5598 PCI
- Ultra high integration, single chip including VGA
- PCI V2.1 complied

On Chip VGA

- SIS 5598 VGA controller on die
- New generation UMA architecture
- Built in GUI accelerator/video accelerator./24 bit true color RAMDAC
- Shared system memory 0.5MB/1MB...3.5MB
- Maximum Res. Color & Refresh Rate

Resolution	Colors	Refresh Rate (Hz)
1280×1024	256	60
1024×768	16bits (High color)	72
800×600	24bits (True color)	72

- Driver support: Windows 95/98, Windows NT4.0/OS/2 warp.

On Board I/O

- SMSC 37C669 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, 20 pin connector×1
- Floppy disk controller: 5.25" 360K/1.2MB, 3.5" 720K/1.2MB/ 1.44MB/2.88MB support, 26 pin×1
- On chip enhanced IDE, PIO up to mode 4, DMA master up to mode 2, Ultra DMA/33 support, 40 pin×1
- On chip keyboard, mouse controller, PS/2 keyboard, 6 pin mini DIN×1 for keyboard and mouse, 5 pin header×1
- On board buzzer×1
- On board 2 pin header for reset SW, 4 pin for speaker, 5 pin for keylock

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

Dimensions

- 185mm(L)×122mm(W)

Power Requirements

- +5V: 6A (Max.)
- +/-12V: 20mA (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

Model Available

PEAK 550

- Half-size Socket 7 CPU Card w/ VGA

NEXCOM