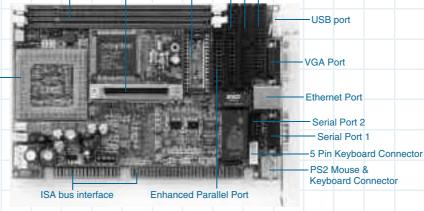# PEAK 555A

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

Half-size 100 MHz FSB Socket 7

- 168 pin DIMM socket x 2
- DiskOnChip socket
- Dual IDE Interface
- Ultra Wide SCSI
- Floppy Drive Interface
- USB port
- VGA Port
- Single socket 7 CPU
- Ethernet Port
- Serial Port 2
- Serial Port 1
- 5 Pin Keyboard Connector
- PS2 Mouse & Keyboard Connector
- ISA bus interface
- Enhanced Parallel Port

INTRODUCTION

The PEAK 555A is a half-size single board computer built with high performance socket 7 CPU with clocks up to 100MHz, high performance PCI Bus and I/O's. The pipeline burst cache and the 4th generation VGA with Unified Memory Architecture (UMA) are included. An optional ultra wide SCSI module also gives the PEAK 555A a unique feature. Supporting Intel low power CPU up to 266MHz, the PEAK 555A could run without a cooling fan.

FEATURES

- Intel Pentium MMX up to 266MHz, AMD K6 up to 450MHz
- 66/100MHz socket 7 external bus
- 512KB P.B. SRAM cache
- 512MB SDRAM (Max.) memory support, DIMM x 2
- SIS 530/5595 PCI set (VGA controller on die)
- MXIC MX98715 10/100 Base Ethernet Controller
- Adaptec 7880 Ultra Wide SCSI Controller (option)
- On board socket for DiskOnChip up to 144MB
- ISAMAX support
- Half-size ISA bus SBC

SPECIFICATIONS

System Architecture
Half size SBC with ISA Golden finger
All socket 7 CPU support, 66/100MHz external clocks

CPU Support
Intel Pentium MMX CPU up to 266MHz (low power CPU supported)
Other compatible socket 7 CPU (AMD K6, K6-2, Cyrix 6x86MX) support up to 450MHz 66/100MHz external clocks

Cache Memory
512KB Pipeline Burst SRAM cache memory

Main Memory
Support SDRAM memory up to 512MB (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
SIS 530/5595 PCI chip set
66/100MHz socket 7 CPU support

UMA Graphics with 3D/DVD acceleration
PCI V2.1 compliant

On Chip VGA

SIS 530/5595 VGA controller on die
64 bit/100MHz host interface
Shared memory 2MB, 4MB, up to 8MB
Maximum Res. Color & Refresh Rate

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

Driver support: Windows 95/98/2000,
Windows NT4.0

On Board LAN

MXIC 98715 Ethernet controller
10 Base T/100 Base TX support, full duplex
Complies with PCI V2.1, IEEE802.3, IEEE
802.3U
Driver support: DOS/Windows, Windows
95/98/2000, Windows NT4.0, SCO Open
Server 5.0
RJ45 CRT connector x 1

**On Board SCSI Socket - through NEXCOM
proprietary PCI interface**

Adaptec AIC 7880 SCSI controller (EBK
SCSI Module)
Driver support: Windows 95/98/2000,
Windows NT4.0, Netware, SCO Open
Server 5.0

On Board I/O

Winbond W83977 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/33/66, 40 pin x 2

On chip keyboard, mouse controller, PS/2
keyboard, 6 pin mini DIN x 1 for keyboard
and mouse, 5 pin header x 1
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
On board 4 pin power connector for stand
alone applications

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) x 122mm(W)

Power Requirements

+5V: 10A (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

MODELS AVAILABLE

- **PEAK 555A** - Half-size Socket 7 All-in-One
  CPU Card
- **PEAK 555VL** - Half-size Socket 7 CPU Card
  w/VGA/LAN