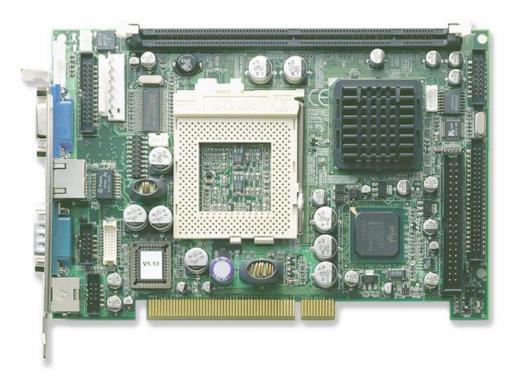
## PCI-6870

## Socket 370 PIII/Celeron PCI™ Half-size CPU Card with VGA/LAN/CFC



### Introduction

### The High Speed PCI Bus

The PCI-6870 is Advantech's latest effort to provide new PCI based solutions to their customers. This SBC is based solely on the PCI bus standard.

The advantage of using the PCI bus standard is the higher performance of 32-bits at 33 MHz compared to the ISA buses' standard 8/16-bits at 8 MHz. This increased performance makes PCI cards especially attractive for communication applications. PCI bus cards also provide for easy expansion. For example, adding another Ethernet port could easily be done on a PCI bus card. Also, other high-speed add-on cards need a PCI interface. High speed Add-on communication cards are good examples of this.

#### Socket 370 Flexibility

The PCI-6870 supports both 0.13 micron and 0.18 micron socket 370 Pentium III/Celeron processors. It supports 100/133 system bus. Using Intel 815E chipset, it can support a Pentium III/Celeron CPU up to 1.24/1.2 GHz. PCI-6870 uses the VGA controller in the 815E chipset and supports Direct AGP. The VGA memory is UMA shared memory and can be further upgraded to 4MB with an optional module. There are 2 serial ports, one RS-232 and one RS-232/422/485. The PCI-6870's USB interface is USB rev.1.1 compliant. There is a 10/100 Mbps Ethernet interface as well as SIR IrDA compliant infrared support. The PCI IDE interface has two

IDE channels and supports 4 IDE devices with Ultra DMA33 with Bus Mastering up to 33MB/sec. In addition, Channel one IDE supports ultra DMA 33/66/100.

#### Optional Video Expansion Module

PCI-6870 is designed with video enhancement in mind. Customers can add more video functions such as: DVI output, S-video output, Video out, and more VRAM by adding an optional video expansion module.

#### **Features**

- Supports Socket 370 for Intel® Pentium III/Celeron™ processor processor up to 1.26/1.2 GHz
- High speed Direct AGP for VGA display (815E built-in) with an optional video module supporting DVI, and TV out
- 10/100Base-T Fast Ethernet (IntelR 815E built-in and Intel 82562ET onboard)
- USB interface compliant with USB rev. 1.1
- CompactFlash Type I card (Type II optional)
- System overheat temperature control
- · Watchdog timer, jumperless on-line setup supported
- · Supports wake-up on LAN
- Supports PCI interface compliant with PCI rev. 2.1
- Supports four\* PCI Bus masters
- \* up to six PCI Bus masters with special backplane





# PCI-6870

## **Specifications**

- CPU: Socket 370 for Intel® Pentium III/Celeron™ processor up to 1.26/1.2 GHz
- BIOS: (4) Mbit Flash BIOS, supports Plug & Play, APM 1.2 Support Ethernet Boot ROM Support boot from CD-ROM Support boot from LS-120 ZIP™ Drive Optional Customer icon
- Chipset: Intel® 815E PCI set, FSB 100/133 MHz
- 2nd level cache: 128/256KB on Celeron/Pentium III™ Processor
- System memory: One DIMM socket, supports PC100/133 up to 512MB
- PCI IDE interface: Two Enhanced IDE interfaces, supporting 4
   IDE devices Ultra DMA33 with bus mastering up to 33 MB/sec.
   Channel one supports Ultra DMA 33/66/100.
- Floppy disk drive interface: Supports up to two FDDs (360 KB/ 1.2 MB/720 KB/1.44 MB/2.88 MB)
- Parallel port: One parallel port, supports EPP/ECP
- IR port: One 115 kbps IrDA compliant serial infrared
- Serial ports: 2 serial ports

COM1: RS-232, COM2: RS-232/422/485

• **Watchdog timer**: 62 levels timer interval, setup by software, jumperless selection, generates hardware reset

#### AGP SVGA/Flat Panel Interface

- Chipset: Intel 815E (Direct AGP)
- Display memory: Share system memory up to 4MB (max.)
- · Display type: Supports CRT
- Interface: 2x AGP, Accelerator Graphics Ports 1.0 compliant
- · Display mode:

CRT display supports up to  $800 \times 600 \otimes 24$  bpp,  $1024 \times 768 \otimes 24$  bpp

#### Ethernet Interface

· Intel 82562ET chip

PCI Ethernet controller, IEEE 802.3 protocol compatible Supports 10/100 Base-T Ethernet

#### **Power Management**

• Supports Advanced Power Management

#### Solid State Disk

• Support CompactFlash Type II

#### Keyboard/Mouse connector

• 6-pin Mini-Din header connector for keyboard and PS/2 mouse

#### **On-board Security**

CPU over temperature

#### Mechanic and Environmental Specifications

• Standard Mode Power Consumption

Typical 5V @ 6.68A (w/ PIII850,256MB)

Max. 5V @ 8A

• Operating temperature: 0 ~ 60° C (32 ~ 140° F)

• Size: 185 mm x 122 mm

Weight: 0.26 kg

### **Ordering Information**

□PCI-6870F-00A1

PCI bus socket 370 815E half-size CPU card with VGA/LAN/CFC

#### **Optional Accessories**

□PCA-6104P4

4-PCI Slot passive backplane

□IPC-644P4-80

4-slot IPC chassis & 80 W power supply

□96966870A0

Video expansion module (4MB VRAM, DVI, Video out, S-Video)

**9689000042** 

IrDA adapter

**1700100170** 

USB cable



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