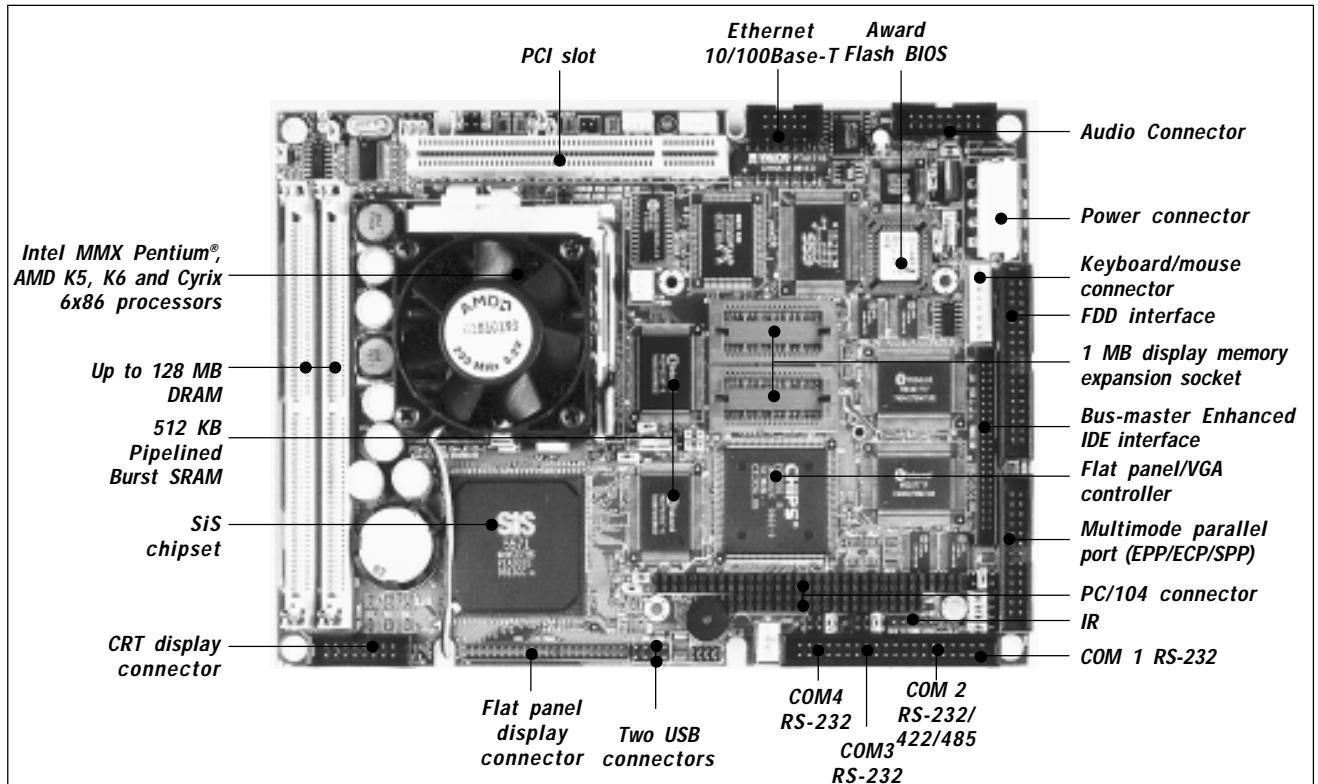


PCM-5862E/L

**Pentium® MMX processor-based SBC
with Audio, VGA/LCD and Ethernet**



Introduction

The PCM-5862E/L is an all-in-one multimedia Pentium® processor-based single board computer (SBC) with a 16-bit audio controller (PCM-5862E), a PCI SVGA controller, a PCI Ethernet interface and one PCI expansion slot. When using an Intel MMX Pentium® processor, the PCM-5862E/L achieves outstanding performance that surpasses any other SBC in its class. This compact (only 5.75" x 8") unit offers all the functions of a single board industrial computer, but still fits in the space of a 5.25" floppy drive.

On-board features include 512 KB 2nd level cache, four serial ports (three RS-232, one RS-232/422/485), one multi-mode parallel (ECP/EPP/SPP) port, two USB (Universal Serial Bus) ports, a floppy drive controller and a keyboard/PS/2 mouse interface. The built-in high speed PCI IDE controller supports both PIO and bus master modes. Up to two IDE devices can be connected, including large hard disks, CD-ROM drives and tape backup drives.

The PCM-5862E/L features power management to minimize power consumption. It complies with the "Green Function" standard and supports doze mode, standby mode and suspend mode. In addition, the board's watchdog timer can automatically reset the system or generate an interrupt in case the system stops due to a program bug or EMI.

Highly integrated multimedia SBC

The PCM-5862E/L is a highly integrated multimedia SBC that combines audio, video, and network functions on a single computer board the size of a 5.25" floppy drive. It provides 16-bit full-duplex, integrated 3D audio and up to 64K colors display capability at 1024 x 768 resolution (with 2 MB display memory). Major on-board devices adopt PCI technology to achieve outstanding computing performance when used with Intel Pentium® processors, making the PCM-5862E/L the world's smallest and most powerful all-in-one multimedia board.

Features

- Accepts Intel Pentium®, Pentium® MMX, AMD K5, K6 and Cyrix 6x86MX processors upto 233MHz
- 32-bit PCI-bus SVGA/LCD controller supports LCD & CRT displays
- 32-bit PCI-bus 100Mbps Ethernet interface, IEEE 802.3U protocol
- 16-bit audio interface, Sound Blaster Pro compatible (PCM-5862E only)
- 4 serial ports (three RS-232 and one RS-232/422/485)
- USB interface, PCI slot, and PC/104 connector for flexible expansion capabilities
- Watchdog timer with jumperless selection

Specifications

Standard SBC functions

- **CPU:** Intel Pentium MMX® up to 233 MHz
AMD K5, K6 up to 300 MHz
Cyrix 6x86MX PR233
- **BIOS:** Award 256 KB Flash BIOS, supports Plug & Play, APM
- **Chipset:** SiS 5571
- **Green function:** APM 1.1 compliant
- **2nd level cache:** on-board 512 KB Pipelined burst SRAM
- **RAM:** Two 72-pin SIMM sockets accept 8-128 MB EDO/FPM DRAM
- **Enhanced IDE interface:** Supports 2 IDE devices
- **FDD interface:** Supports up to two FDDs (360K/1.2M/720K/1.44MB/2.88MB)
- **Parallel port:** One parallel port, supports SPP/EPP/ECP parallel mode
- **Serial port:** COM1,3,4: RS-232
COM2: RS-232/422/485
- **Watchdog timer:** Software enabled/disabled. 63-level interval from 1 to 63 seconds. Jumperless selection. Generates system reset or IRQ15
- **Keyboard/mouse connector:** 10-pin header connector for keyboard and PS/2 mouse
- **USB interface:** Two USB connectors with fuse protection. Complies with USB Spec. Rev. 1.0
- **Infrared port:** Supports up to 115kbps transfer rate
- **PC/104 expansion:** 104-pin 16-bit PC/104 module connector
- **I/O bus expansion:** One 32-bit PCI bus expansion slot

PCI SVGA/flat panel interface:

- **Chipset:** C&T 65550
- **Display memory:** 1 MB on-board memory, supports up to 2 MB
- **Display type:** simultaneously supports CRT and flat panel (EL, LCD and gas plasma) displays

- **Display resolution:** Panel resolution supports up to 1024 x 768. Non-interlaced CRT monitors support resolutions up to 1024 x 768 @ 256 colors with 1 MB memory, up to 1024 x 768 @ 64 K colors with 2 MB memory

Audio function (PCM-5862E):

- **Chipset:** ESS 1868
- **Audio controller:** 16-bit, SoundBlaster Pro compatible
- **Stereo sound:** Full-duplex, integrated 3D audio
- **Audio interface:** Mic in, Line in, CD audio in; Line out, Speaker out
- **Power:** Accepts +12 V source for improved audio quality

PCI Bus Ethernet Interface:

- **Chipset:** Realtek RTL8029 PCI local bus Ethernet controller
- **Ethernet interface:** PCI 100/10 Mbps, IEEE 802.3U compatible. Includes software drivers and boot ROM

Mechanical and environmental

- **Max. power requirements:** 7 A @ 5 V (4.75 to 5.25)
- **Operating temperature:** 0 to 60° C (32 to 140° F)
- **Size:** 203 mm (L) x 146 mm (W) (8" x 5.75")
- **Weight:** 0.32 kg (0.7 lbs)

Ordering Information

- PCM-5862E-00A1:**
Multimedia Pentium®processor-based SBC with 1MB VGA memory
- PCM-5862E-02A1:**
Multimedia Pentium®processor-based single board computer with 2 MB VGA memory
- PCM-5862EL-00A1:**
Multimedia Pentium®processor-based SBC with 1MB VGA memory without Audio function
- PCM-5862EL-02A1:**
Multimedia Pentium®processor-based single board computer with 2 MB VGA memory without Audio function
- 1700080170:**
USB cable for POS-560/PCM-5862 series
- PCM-10586-2000:**
PCM-5862 wiring kit
- PC/104 Module Series:**
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