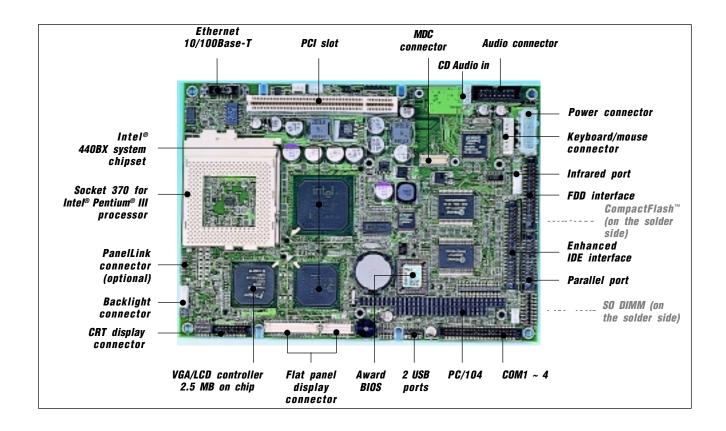
PCM-9574

Socket 370 Pentium® III SBC with AGP, VGA/LCD, Ethernet and Audio



Introduction

The PCM-9574 is an all-in-one Pentium®III level single board computer (SBC) with a 2x AGP LCD controller, Audio interface, PCI Fast Ethernet interface and one PCI expansion slot. With the Intel Celeron™ processor, the PCM-9574 achieves outstanding performance that surpasses most other SBCs 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 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, one infrared port (FIR), one CompactFlash $^{\text{TM}}$ socket for CFC, a floppy drive controller and a keyboard/PS/2 mouse interface. The built-in high speed PCI IDE controller supports PIO, UDMA/33 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-9574 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 Pentium® III SBC

The PCM-9574 is a highly integrated SBC that combines Audio, PanelLink, and network functions on a single computer board the size of a 5.25" floppy drive. Major on-board devices adopt PCI technology to achieve outstanding computing performance when used with Intel®Celeron TM processors, making the PCM-9574 one of the world's smallest and most powerful all-inone Socket 370 boards.

Features

- 3D VGA/LCD interface: supports a 2x AGP interface, 3D 64-bit engine, as well as a 2.5 MB embedded Trident 9525 DVD chip
- Display resolution: up to 1024 x 768 @ 16.8 M colors in both in LCD and CRT displays
- PanelLink (optional): scalable bandwidth of 25 ~ 112 MHz (VGA 640 x 480 ~ SXGA 1280 x 1024)
- 100 MHz FSB design: to support both Celeron[™] and Pentium[®] III processors

Note: All features and specifications are subject to change without notice.



^{*} Pentium® is a registered trademark of Intel® Corporation

Specifications

Standard SBC functions

- CPU: Socket 370 for Intel®Celeron™ processor up to 533 MHz or Pentium®III 550 MHz or above
- **BIOS**: Award 256 KB Flash BIOS, supports Plug & Play, APM
- Chipset: Intel 440BX
- Green function: APM 1.2 compliant
- 2nd level cache: 128 KB/256 KB on the processor
- RAM: Two 144-pin SO DIMM sockets accept 8 ~ 128 MB SDRAM
- Enhanced IDE interface: One channel for 2 IDE devices. One channel for CompactFlash™ card
- FDD 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 SPP/EPP/ECP mode
- Serial ports: Four serial ports with +5 V / +12 V power capability (COM1,3,4: RS-232 andCOM2: RS-232/422/485)
- Watchdog timer: Software enabled/disabled. 63-level interval from 1 to 63 seconds. Jumperless selection. Generates system reset or IRQ11
- Keyboard/mouse connector: 8-pin header connector for keyboard and PS/2 mouse
- USB interface: Two USB connectors with fuse protection.
 Complies with USB Spec. Rev. 1.0
- Infared port: Supports up to 115 Kbps 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: Trident Cyber 9525 DVD, high performance 64-bit GUI, 3D engine
- Display memory: 2.5 MB of SDRAM frame buffer on cyber 9525DVD. 4 MB SDRAM frame buffer on CyberBLADE e4 TM9540 (optional)
- **Display type**: Simultaneously supports CRT and flat panel (EL, LCD and gas plasma) displays
- Interface: 2x AGP, Accelerator Graphics Ports 1.0 compliant
- Display mode:

LCD panel supports up to $800 \times 600 \otimes 24$ bpp, $1024 \times 768 \otimes 24$ bpp.

CRT displays support up to $800 \times 600 @ 24 \text{ bpp}$, $1024 \times 768 @ 24 \text{ bpp}$

PCI Bus Ethernet Interface

- Chipset: Realtek RTL8139 PCI-bus Ethernet controller
- Ethernet interface: PCI 100/10 Mbps, IEEE 802.3U compatible
- Remote Boot-ROM: For diskless system

Audio Function

- **Chipset:** ES 1989S
- Audio controller: AC97 ver. 2.0 compliant interface, Multistream Direct Sound and Direct Sound 3D acceleration
- Audio interface: Microphone in, Line in, CD audio in, line out, Speaker L, Speaker R
- MDC interface: Supports (Mobile Daughter Card) interface for optional MDC software modem.

Solid State Disk

 One 50-pin socket: For one CompactFlash™ card, shared with one IDE channel

PanelLink (Optional)

- Chipset: Sil 154 PanelLink Digital Transmitter
- Scalable band width: Ranging from 25 ~ 112 MHz (VGA ~ SXGA)
- 24/48-bit one/two pixel per clock

Mechanical and Environmental

- Power requirements: 5.2 A @ 5 V (4.75 to 5.25) (typical) 4.9 A
 @ 5 V with Celeron™ 466 and 128 MB SO DIMM
- Operating temperature: 0 ~ 60° C (32 ~ 140° F)
- Size (L x W): 203 x 146 mm (8" x 5.75")
- Weight: 0.32 kg (0.7 lb)

Ordering Information

☐ PCM-9574-00A1:

Socket 370 Celeron™/Pentium®III SBC with LCD/Ethernet

1703100260:

USB cable for PCM-9574/PCM-9570/PCM-5820/PCA-6154

□ PCM-10586-4A00:

PCM-9574 wiring kit

9681000040:

24-bit LCD cable adapter 3.3 V

9081000041:

24-bit LCD Cable Adapter (5 V)

