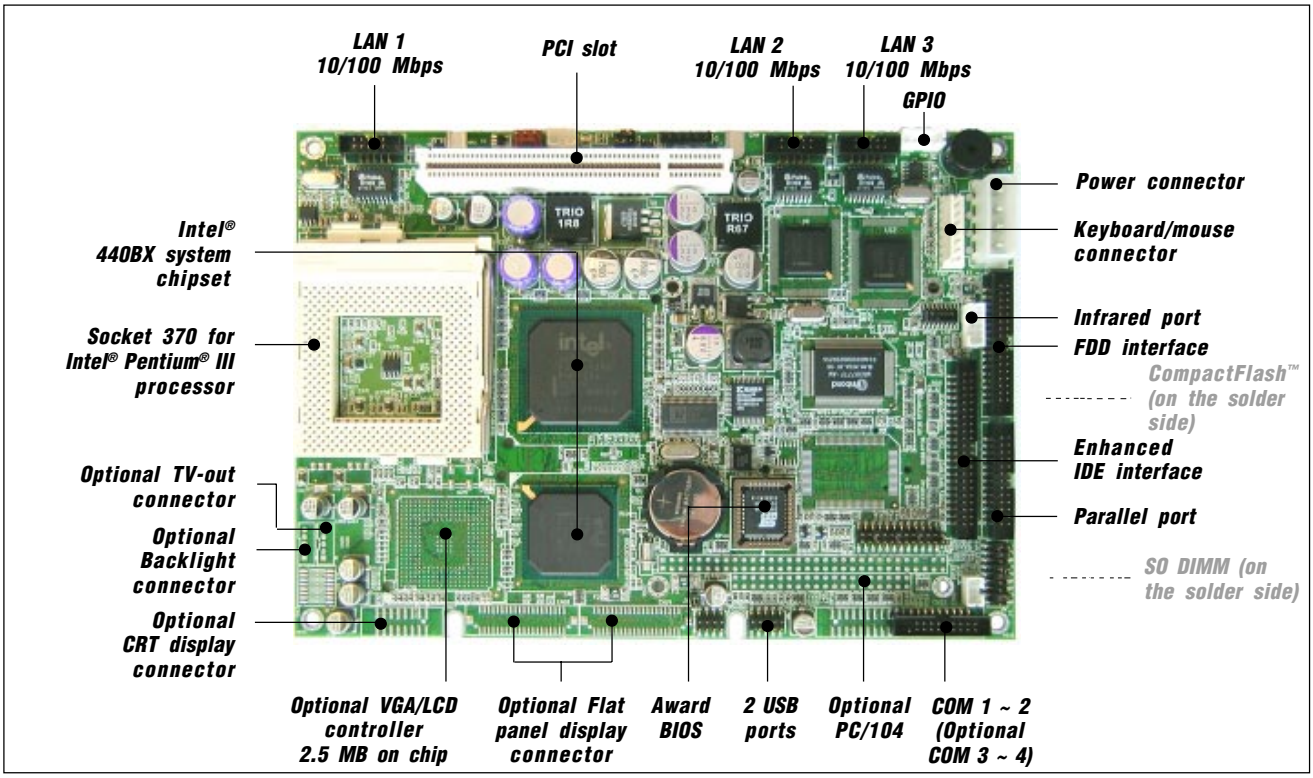
# PCM-9576

## Socket 370 Pentium III SBC with 3 Ethernet/PCI Extension




## Introduction

Advantech's new PCM-9576 is a Socket 370 SBC designed with customer needs in mind. With the ability to accept Pentium®III/ Celeron™ processors up to 850 MHz, supply 2, 3 or even 4 10/100 Mbps ethernet ports, the PCM-9576 is right at home in any network environment. The PCM-9576 can be used as a dual ethernet firewall device, triple ethernet firewall/DMZ device or through its PCI expansion slot, a four ethernet port device that allows centralized management of a Secure Virtual Network, including firewall security and VPNs or PCI add-on cards for encryption acceleration. Applied in any network environment or in a stand-alone chassis supplied by Advantech, the PCM-9576 has the processing power and reliability to handle your mission critical, high availability applications.

The PCM-9576 is of course a powerful and compact, full featured (5.75" x 8") SBC that can be used in a multitude of embedded applications. However, certain features make it attractive for network administration. An Optional VGA/LCD controller saves on cost. VGA/LCD is unnecessary for many network applications. With the available COM port, administrators can simply connect a PC (console) for configuration. Scalable ethernet lets users pay for the ethernet they need. Order dual or triple Intel®10/100 Mbps 82559ER controllers. Or add another PCI ethernet card. The PCM-9576 offers GPIO support with 3 general purpose output controls.

### *Great Flexibility to Meet Network Appliance Market Needs*

The PCM-9576 gives customers the choice to pick and choose onboard hardware to better match application needs for cost, capability and performance. This includes an optional VGA/LCD controller, optional PC/104 connector and additional COM ports if needed. Flexibility is the key in a platform that drives network appliance applications ranging from security monitoring, storage and management appliances and voice and media gateways.

## Features

- Supports Pentium®III /Celeron™ processors up to 850 MHz
- Supplies scalable ethernet, 2 or 3 10/100 Mbps ports
- Numerous optional features for maximum application fit
- Supports up to 2 FDDs and up to 2 EIDE devices
- PCI slot for hardware expansion
- 3 general purpose input/outputs (GPIO)

## Specifications

- **CPU:** Socket 370 for Intel®Celeron™/Pentium®III processors
- **BIOS:** Award 256 KB Flash memory
- **System memory:** Two 144-pin SO DIMM sockets accept 32 MB up to 256 MB SDRAM
- **Enhanced IDE interface:** Supports up to two EIDE devices. BIOS auto-detect, PIO Mode 3 or Mode 4, UDMA/33 transfer
- **FDD interface:** Supports up to two FDDs
- **Serial ports:** Two RS-232 ports (PCM-9576F)
  Four serial ports, COM 1, 3, 4: RS-232 and COM2: RS-232/422/485 (PCM-9576FV)
- **Parallel port:** One parallel port, supports SPP/EPP/ECP mode
- **Infrared port:** Shared with COM2. Transfer rates up to 115 Kbps
- **Keyboard/mouse connector:** Supports standard PC/AT keyboard and a PS/2 mouse
- **Power management:** Supports power saving modes including Normal/Standby/Suspend modes. APM 1.2 compliant
- **Watchdog timer:** 63 level timer intervals
- **USB:** Two universal serial bus ports
- **Expansion:** One PCI slot, One PC/104 socket (PCM-9576FV)
- **GPIO:** Supports 3 general purpose output control on CN6

**Solid State Disk**

- Supports one 50-pin socket for CompactFlash™ card

**AGP SVGA/Flat Panel Interface (PCM-9576FV only)**

- **Chipset:** SMI Lynx 712 2 MB on chip or optional Lynx 721 4 MB or 8 MB on chip
- **Interface:** 2x AGP interface, 128-bit engine
- **Display mode:** Flat panel displays up to 800 x 600 @ 24 bpp, 1024 x 786 @ 24 bpp. CRT monitors up to 1024 x 768 @ 24 bpp, 1280 x 1024 @ 24 bpp,
- Supports 18/24/36/48 bit TFT LCD, STN and Mono LCD
- **Dual display:** Supports dual 18/24 bit TFT LCD, or CRT and LCD Display under Windows 98 (721 chip only).

**TV-out (PCM-9576FV only)**

- **Chipset:** SMI Lynx 721
- Supports NTSC, NTSC-EIA (Japan) and PAL TV formats
- Provides Composite video, S-video and SCART (optional) outputs via RCA (composite) connector and S-video connector
- Supports 640 x 480 and 800 x 600 input resolutions
- Supports Windows® 95/98 and Windows NT drivers
- Over-scan, under-scan and position adjustable
- Auto-detection of TV presence rnet Interface

**PCI Bus Ethernet Interface**

- **Chipset**:

  Intel 82559ER x 3 (PCM-9576F-01A1, PCM-9576FV-03A1)

  Intel 82559ER x 2 (PCM-9576F-00A1, PCM-9576FV-02A1)

  (optional Intel 82559 chipset also available)

- **Ethernet interface**: PCI 10/100 Mbps Ethernet. IEEE 802.3 U protocol compatible
- **Connection**: On-board RJ-45 connector
- **I/O address switchless setting**
- **Built-in boot ROM (optional when using Intel 82559 LAN chip)**

**Mechanical and Environmental**

- **Dimensions (L x W):** 203 x 146 mm (8" x 5.75")
- **Power supply voltage:** +5 V ± 5%
- **Power requirements:** 5.2 A @ +5 V (typical, Pentium III 500 MHz, 64 MB DRAM)
- **Operating temperature:** 0 ~ 60° C
- **Weight:** 0.7 kg (weight of total package)

## Ordering Information

❑**PCM-9576F-01A1**:
Socket 370 SBC w/3 Ethernet, 2 COM, 3 GPIO, W/O VGA/LCD

❑**PCM-9576F-00A1**:
Socket 370 SBC w/2 Ethernet, 2 COM, 3 GPIO, W/O VGA/LCD

❑**PCM-9576FV-02A1**:
Socket 370 SBC w/2 Ethernet, 4 COM, 3 GPIO, 2 MB VGA/LCD

❑**PCM-9576FV-03A1**:
Socket 370 SBC w/3 Ethernet, 4 COM, 3 GPIO, 2 MB VGA/LCD

**Optional Accessories**

❑**PCM-10586-4E00**:
PCM-9576F wiring kit

❑**PCM-10586-4EV0**:
PCM-9576FV wiring kit

❑**PCM-3663-02A1**:
PC/104-Plus Twin Ethernet module (Intel 82559ER)

❑**PCM-3663-03A1**:
PC/104-Plus Single Ethernet module (Intel 82559ER)

❑**PCM-110-00A2**:
Riser card 1 x PCI for PCM-9570/9574/9576F/5864

❑**PCM-120-00A2**:
Riser card 1 x PCI for PCM-9570/9574/9576F/5864

❑**1703100260**:
USB cable (2 ports) for PCM-9570/9574/9576

❑**1703200201**:
ATX power control cable

❑**CF-HDD-ADP**:
CompactFlash™ 50-pin to IDE 44-pin adapter



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

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