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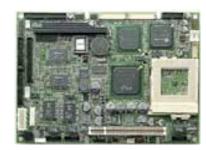Advantech Home | EPC Homepage | Online Store | Contact Us

June 15, 2001 Vol.50

Prime News

New Dual/Triple LAN Pentium® III PCM-9576 SBC Gives Administrators More Network Control

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 and offer optional product features (VGA/LCD interface) that match application needs, the **PCM-9576** is right at home in any network environment.

New Service

Advantech Announces Windows® CE 3.0 Support and Training for System On Module Products

Advantech is offering full Microsoft Windows® CE support and training for our new System On Module (SOM) product line. Advantech not only provides Windows® CE Platform Development Kits (PDKs) and Windows® CE operating system integration services that perfectly match our hardware, but we now offer a Windows CE training course along with our 30 Days DTOS™ capability.

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Contact the editor

Recent News

Prime News
■ New Geode™ GX1 SOM 144 System On Module Available Now

New Product
■ Advantech eliminates cumbersome cables and gives you compact flexibility

New Product
■ New WEB-2000 StrongARM® Controller

RECENT ISSUES

June 1, 2001
May 15, 2001
May 1, 2001
April 15, 2001

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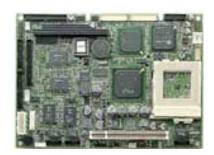| EPC World	Advantech Home	EPC Homepage	News Archive	Contact Us

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Other News

Prime News

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New Product/Service

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New Product

New Dual/Triple LAN Pentium® III PCM-9576 SBC Gives Administrators More Network Control

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 and offer optional product features (VGA/LCD interface) that match application needs, 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 as a 1U rackmount component or in a stand-alone device, the **PCM-9576** has the processing power and reliability to handle your mission critical, high availability application, the flexibility and size to go where you need it and feature options that adhere to tight budget demands.

Meeting Vertical Market Needs

Advantech's Embedded Computing Group prides itself on being able to meet vertical market users' needs. The PCM-9576 is of course a powerful and compact, full featured stand-alone (5.75" x 8") SBC that can be used in a multitude of embedded applications. However, certain features make it attractive for network administration:

1) 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. *If you don't need it, don't pay for it.* However, if you do need it, there is a powerful SMI Lnyx 721 (or 712) controller available.

2) Scalable ethernet

Pay for the ethernet you need. Order dual or triple Intel® 10/100 Mbps 82559ER controllers. Or add another PCI ethernet card.

3) PCI expansion slot

Once again, *add an additional high speed ethernet port* or *cost effective PCI add-on card*. There is even a PC/104 connector for flexible ISA expansion when needed.

4) GPIO support

Supports 3 general purpose output controls

A Well Rounded Single Board Computer

The PCM-9576 has all the powerful features that make it a great all-in-one single board computer. Below is a summary of the 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 up to 256MB
- **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 serial RS-232 ports, COM3, COM4 are optional
- **Parallel port:** One parallel port supports SPP/EPP/ECP mode
- **Infrared port:** Shared with COM2, 115 Kbps
- **KB/mouse connector:** Supports standard PC/AT keyboard and PS/2 mouse
- **Power management:** APM 1.2 compliant supports Normal/Standby/Suspend modes
- **Watchdog timer:** 63 level intervals
- **USB:** Two USB ports
- **Expansion:** One PCI slot
- **GPIO:** Supports 3 general purpose output controls

Solid State Disk

- Supports one 50-pin socket for CompactFlash™

VGA/LCD Interface (optional)

- **Chipset:** SMI Lynx 721 4 MB on chip or 8 MB on chip
- **Interface:** 2xAGP interface, 128-bit engine
- **Display mode:** Flat panel displays up to 800 x 600 @ 24 bpp, 1024 x 768 @ 24 bpp, CRT monitors up to 1024 x 768 @ 24 bpp, 1280 x 1024 @ 24 bpp
- **Dual display:** Supports dual 18/24 bit TFT LCD, or CRT and LCD display under Windows® 98/2000

Ethernet Interface

- **Chipset:**
  - Intel® 82559ER x 3 **(PCM-9576F-01A1)**
  - Intel® 82559ER x 2 **(PCM-9576F-00A1)**
- **Ethernet interface:** PCI 10/100 Mbps Ethernet. IEE 802.3 U
- **Connection:** Onboard RJ-45 connectors
- I/O address switchless setting
- Built-in ROM

Mechanical and Environmental

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

A Network Ready Device

The PCM-9576 is a total solution SBC that can handle all major operating systems. Additional hardware support is right at hand as is Advantech's technical advice and quick online service. You can use the following information to place orders and make inquiries.

Standard SBC Ordering Information

PCM-9576F-01A1: Socket 370 SBC W/3 Ethernet, 2COM, 3GPIO, PCI slot

PCM-9576F-00A1: Socket 370 SBC W/2 Ethernet, 2COM, 3GPIO, PCI slot

Optional Accessories

PCM-10586-4E00: Wiring kit for PCM-9576F

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-9570/9574/9576F

1703200201: ATX power control cable

CF-HDD-ADP: CompactFlash™ 50-pin to IDE 44-pin Adapter

Contact Information

For more information on the new PCM-9576 or any other Advantech products, contact your nearest Advantech representative or e-mail us at epc@advantech.com.tw today.

* Fourth ethernet port supplied by PCI ethernet add on card (not supplied)

TOP

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New Service

Advantech Announces Windows® CE 3.0 Support and Training for System On Module Products

Advantech is offering full Microsoft Windows® CE support and training for our new System On Module (SOM) product line. The SOM series offers multiple "plug-in" CPU modules that quickly attach to customer-designed application boards; they are extremely flexible and great for use in the type of embedded applications Microsoft® Windows® CE is famous for. Advantech not only provides Windows® CE Platform Development Kits (PDKs) and Windows® CE operating system integration services that perfectly match our hardware, but we now offer a Windows CE training course along with our 30 Days DTOS™ capability. With our 7 years of development experience for Windows CE and 20 years of embedded hardware expertise, Advantech is well positioned to give customers cost-effective and practical training that can allow them to walk away from this training with a working prototype of their desired application.

Learn Today, Apply Tomorrow

The training class, which is slated to begin this July, is perhaps the most effective training class in the embedded industry today. Customers are given a combination of classroom and hardware/software lab experience that is well focused and useful. Using actual SOM Development Kits (CPU module, development board and pre-installed Windows CE 3.0 Image), Advantech engineers show and assist attendees with the "real life" obstacles typically faced during application development. These include setting up and using Platform Builder 3.0 to configure Windows CE and perform different modifications that can be done to a platform during the configuration stage, plus critical tips on how to incorporate their own application-specific device drivers to their application. What is unique though, after customers leave this training with an embedded development kit in hand, and are happy with their software and development board functionality, they can immediately apply for Advantech's 30 Days Design To Order Service (DTOS™). This guarantees them a tailored solution board within 30 days. Advantech feels this practical, solution-focused training, helps our customers with their short and long term business needs.

The Right Hardware and Software Solution

The SOM Development Kit comes with a pre-installed and tested Microsoft Windows CE 3.0 OS on Flash disk, the SOM CPU module of choice and corresponding development board, a Windows CE license, device drivers for onboard devices, utility and sample programs and a users manual. Advantech is also developing a similar solution for the next Windows CE release, code named "Talisker". Also included is a null modem serial cable and CESH parallel cable. It is a cost effective solution that leverages previous software and hardware experience,

plus greatly shortens application time-to-market. Windows CE includes proven technologies such as Win32, MFC, Component Object Module (COM), Visual Basic and others. It is a compact and stable embedded operating system that meets the needs of many of today's small footprint, mobile smart devices. Our software team specializes in developing device drivers and hardware dependent software for TV/Tuners, Digital Video Recording, multiple I/O accessing and others, all of which utilize Windows CE platforms. Together with our field-proven hardware platforms, Advantech is capable of delivering complete solutions, from device drivers to software applications, from core CPU engines to complete certified systems with industry approved mechanical and power solutions.

Expanding Customer Services

The SOM product line and Windows CE software integration service are just a few ways Advantech is evolving to meet our customers' needs.

> **"Embedded developers are continually looking for ways to accelerate the development time for their Windows CE-based devices, the products and services that Advantech is offering will go a long way in meeting this need." said Keith White, Senior Director of Marketing, Embedded and Appliance Platforms Group at Microsoft Corp. "The Windows CE 3.0 training program in combination with the SOM Development Kit will enable Windows embedded developers to more quickly and easily bring their rich, 32-bit Windows Powered smart devices to market."**

Contact Information

Call your local Advantech sales contact to find out more about the exciting new System On Module series, DTOS and the Microsoft Windows CE solutions that complement our hardware and customers' needs so well. Be sure to ask about the new training class as well. We want to help you get your innovative embedded product on the market today. You can reach us anytime at http://www.advantech.com.tw/SOM or send us an e-mail to som@advantech.com.tw

TOP

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