

Prime News

[PCM-9370 with 3.5" Transmeta Crusoe CPU Board pushes the limits](#)

Advantech's Embedded Computing Group is introducing a new 3.5" (145 mm x 102 mm) Transmeta® 500 MHz processor Single Board Computer to its line. The low-power, high performance mobility offered by the fanless, Transmeta® Crusoe™ TM5400 processor, combined with outstanding multimedia capability and PC/104-Plus support, make the PCM-9370 a powerful performer able to drive the newest, most dynamic applications.



New Product

[PCM-3643 PC/104-plus 8 RS-232 COM Port Module Adapts to High-speed Applications](#)

Advantech introduced its new PC/104-compatible communication module with eight individually configurable RS-232 ports, PCM-3643. Targeting embedded system customers with a need for high-speed and shared IRQ ports, high -performance PCM-3643 is especially suitable for multi-tasking environments.



Marketing News

[Heating Up In Hannover - Advantech struts it's stuff and looks for new partners in Germany](#)

Advantech joins other e-industry leaders from around the world as it visits Hanover, Germany from April 23-28. Showcasing several cutting-edge products, Advantech will be seeking out new business partners at the exhibition, and, considering the caliber of these latest projects, it is likely many new alliances will be conceived.



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Prime News

PCM-9370 with 3.5" Transmeta CPU Board pushes the limits

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Teamed with a SMI Lynx 721 LCD/CRT controller, the PCM-9370's Crusoe TM5400's integrated Northbridge core logic and onboard VIA VT82C686A Southbridge chipset, provide great all around I/O support. The PCM-9370 also offers an optional Audio/TV-out module (PCM-231AV) that supports AC97 3D surround sound and supports CD Audio-in, line-in, line-out and microphone-in. It also supports TV-out functionality that provides S-video and composite video in NTSC and PAL formats. Advantech gave the PCM-9370 the multimedia power to handle most application needs.

Adding Value with Technical Innovation

Based on an advanced VLIW core architecture, the Crusoe™ TM5400 with 64K L1 and 256KB on processor second level cache memory which requires 16 MB memory to provide x86 compatibility by utilizing x86 Code Morphing™ software. Therefore, the PCM-9370 provides 64 MB memory on the first SODIMM including 16 MB reserved for x86 code morphing software. The Crusoe processor is one of the leading energy efficient high-performance x86-compatible mobile solutions on the market today and is finally receiving hard earned acceptance from the embedded community. The PC/104-Plus connectors add tremendous value to the PCM-9370. With the PCM-9370's PC/104-Plus socket, multiple high-speed PCI sockets are always available as is the increased flexibility and cost savings of being able to use off-the-shelf add-on PC/104 modules. For example, by simply adding a PC/104-Plus module like the PCM-3663 dual Ethernet module, two additional LAN ports can easily be added. This PC/104-plus capability helps with product development, speeds up time to market and greatly expands the overall functionality of this SBC.

Advantech's Solutions Make It Possible

The PCM-9370 has all the features you might not even find on CPU boards twice this size. System users can upgrade system memory on the second SODIMM from 64 MB to 256 MB synchronous DRAM, or make use of a CompactFlash™ socket. An Intel 82559ER PCI 10/100 Mbps IEEE802.3u protocol compatible Ethernet controller is also available. 62 level jumperless watchdog timer support is available as is support for two IDE UltraDMA 33 mode up to 33 MB/sec, two FDD device

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interfaces are supplied as well. There are two 1.1 compliant USB ports and a mini-din connector for keyboard and PS/2 mouse support.

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New Product

PCM-3643 PC/104-plus 8 RS-232 COM Port Module Adapts to High-speed Applications

Introduction

Advantech introduced its new PC/104-compatible communication module with eight individually configurable RS-232 ports, PCM-3643. Targeting embedded system customers with a need for high-speed and shared IRQ ports, high-performance PCM-3643 is especially suitable for multi-tasking environments.



Great Function Versatility

The PCM-3643 provides versatile function settings to meet users needs. These function settings include Standard/Enhance setting, Independent/Shared IRQ setting, and Speed setting. Standard/Enhance setting can help users to flexibly use base address. Especially in Enhance setting, different base addresses can be set according to the application. In Shared IRQ setting, all eight interrupt ports can be specified to one. This solves IRQ insufficiency problems within the embedded system. In Speed setting, the PCM-3643 allows transmission rate up to 921.6 kbps and improves the system performance.

Features and Specifications of the PCM-3643

The PCM-3643 also comes with a Windows 95/98/NT/2000 configuration utility. The Windows configuration utility provides self-diagnostics and performance analysis function for easy troubleshooting and debugging. Strong hardware and software support make the PCM-3643 easily controlled because of various COM port devices.

Communication Field:

- Touch screen, pin pad, thermal printer, telephony communication, and so on.

Ordering Information:

The PCM-3643 is available now. Call your local Advantech sales contact to find out more about this amazingly powerful new PC/104-plus from Advantech, or email us at epc@advantech.com.tw today to find out more.

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Heating Up In Hannover

Advantech struts it's stuff and looks for new partners in Germany

Advantech joins other e-industry leaders from around the world as it visits Hannover, Germany from April 23-28. Showcasing several cutting-edge products, Advantech will be seeking out new business partners at the exhibition, and, considering the caliber of these latest projects, it is likely many new alliances will be conceived.

Included in the fleet of products making their debut at the fair are:

- New System-on-Modules (SOM) series.** Advantech's System On Module provides a ready-to-use and flexible CPU system module with various CPU choices scalable from GX1 to Pentium III. SOM products allow embedded integrators to focus on their application's solution board which cuts 80% of regular development and costs. These customer solution boards can either be customer designed or done with Advantech's 30-day DTOSTM (Design-to-order Service). Advantech is offering two SOM product lines, the super small SOM 144 (144-I/O pin 68 mm x 100 mm) modules and the powerful SOM-ETX (400-I/O pin 95 mm x 114 mm) module.
- Easy Access to the E-Home.** Linking together the Internet, home appliances, security systems, heating controls, e-commerce and more, Advantech's EH-7100 brings the E-home lifestyle into reality. Equipped with a 100Base-T Ethernet port and PCMICA slot for Ethernet or IEEE802.11b wireless LAN access, this product offers the best platform for simple one-touch to the activities. Ultimate convenience and performance is ensured as the EH-7100 is supported by a high-speed broadband always-on connection and powered by a Transmeta 5400/400MHz processor. This incredible product brings the future into the home with ease. Imagine the possibilities!
- New Generation Panel Computer Family.** Pushing the limits of Panel Computer Technology, Advantech's Panel Appliance Product Division is unveiling its new line including the PPC-A120T, PPC-105T and PPC-S153. The PPC-A120T features an on-board, low-power NS GX1 CPU, easily removeable HDD and PCMICA modules and highly durable aluminum die-cast housing, making it one of the fine products on the



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market. The PPC-105T brings the best of all Advantech's past products together in one. It features a low-power NS Geode GX1 CPU, high-brightness LCD SVGA display, on-board 16-bit Sound Blaster compatible audio controller, 128 MB on-board SDRAM capacity, auto sensing 10/100Base-T Ethernet controller and a compact, 61.5 mm, flame-resistant chassis. Finally, Advantech presents its new ultra-slim series with the PPC-S153. Perfect for space-sensitive applications, this product occupies less than 50mm in depth and can support an Intel Pentium III CPU up to 1 GB and 3D display engine with 8 MB VRAM. It also sports front panel built-in speakers making it a compelling solution in multimedia applications.

Come visit Advantech's booth at the exhibition and see these incredible products. We will be located at Hall15/D54 throughout the event.

You can learn more about all of these products and more by visiting www.advantech.com. Stay tuned for more information regarding the Hannover Trade Fair and other upcoming Advantech endeavors and we continue going beyond the industry boundaries.

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