

Announcements

New Full Featured 586 Level POS Board Is Low Power Industry Leader

Advantech has just released the new POS-563 Geode™ processor-based control board that offers a wide range of features perfect for the POS application market. Equipped with a Geode GX1-233 processor that leads the Pentium® level processor class in power usage, heat dissipation and performance, the POS-563's rugged industrial construction, full capabilities and fanless operation make it the ideal platform for POS applications such as supermarkets, retail stores, medical equipment, entertainment appliances, ATM machines, hotels and restaurants as well as public transit systems.



New 3.5" NS Geode SBC Supports STN LCD Displays

Advantech is introducing a new biscuit-size, 586 level Geode processor SBC that adds new LCD display capabilities to Advantech's 3.5" SBC line. The added display flexibility of the new **PCM-5824** allows Advantech customers to enjoy the cost savings benefits of using **STN** displays in their applications as well as the ability to use large size **Plasma displays** as well as **Mono and TFT displays**



Advantech New Jersey, USA Office Established



Advantech Technologies, Inc. announced the opening of its Fairfield, New Jersey office to provide sales and applications engineering support to major PC OEMs throughout the U.S. Eastern Region. Advantech's broad product and technology portfolio is the key to successful next-generation designs. New York, New Jersey, Delaware, Virginia,

Maryland, and Massachusetts are some of the fastest growing sales regions in U.S.

Event

Advantech Showcases Innovative Embedded Computing at Electronica 2000

The world's leading electronics exhibition, Electronica 2000, will kick off from November 21st to 24th, 2000, in Munich, Germany. More than 3,500 companies will present their products at this biannual event, turning the Munich Trade Fair Centre into an international arena of innovation and trends.



Product Update

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■ [CompactFlash™ \(50 pin\) to Hard drive \(44 pin\) Adapter Now Available](#)

Manufacturing Story II

■ [Advantech Manufacturing Flexibility and Process Improvements Benefit Customers](#)

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■ [PCM-5820 Rev B Brings Full Geode™ Processor Line Advantages](#)

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[PCA-6753F Half Size CPU Card Upgrades Geode® Processor](#)

Bringing the latest Geode® GX1 processors to the right products has obviously been an ongoing effort at Advantech. The processing capability, speed, fanless operation and low power consumption, make the GX1 processor line perfect for embedded and stand alone applications.

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New Low Power, Fanless POS-563 Control Board

Powerful, Flexible and Efficient

The POS-563 embodies qualities that distinguish it and Advantech from its competitors. First, the POS-563 is made with industrial grade construction that can better withstand constant 24 hour a day use, high vibration, shock, exposure to humidity, moisture and heat. The majority of POS control board manufacturers simply use modified consumer market motherboards not designed to withstand challenging POS operating environments. Next, the GX1-233 processor allows for fanless operation that virtually eliminates heat buildup problems that has traditionally been the number one cause of failure in enclosed POS systems.

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POS-563 - Ready to Handle Any POS Needs

The POS-563 has four digital I/Os and four onboard serial ports each with +5 V/+12 V power. These flexible I/Os have standard OLE interfacing that allow for application hardware independence to be realized. Peripherals ranging from bar code scanners, card readers, printers, cash drawers etc.. are all easily supported. The POS-563 uses a standardized layout based on Western Digital's LPM/LPX form factor. It is 100% PC compatible and ready for any existing PC software or hardware. Other features include a C&T69000 VGA/LCD controller for DSTN panels up to 36-bit XGA TFT LCD panels, 10/100

Mbps PCI Ethernet interface with wake-on-LAN support, 2x USB, 4 Mbps FIR, watchdog timer software enabled/disabled 1 ~ 62 sec. selectable, AC97 audio interface, 16 MB onboard DRAM, one socket for DiskOnChip® and one DIMM socket for up to 128 MB SDRAM support.

Bringing Experience to the Table

The POS-563 control board is a product that leverages Advantech's experience and capabilities. Advantech has fifteen years of service, R&D, manufacturing and integration experience with similar products. Advantech's industrial environment SBC and chassis experience lends itself well to understanding the needs of the POS operating environment. This is experience Advantech is willing to share with our customers.

Contact Advantech Today

The POS-563 is in pilot run production now with regular production being ramped up by the beginning of December 2000. Orders may be submitted now using the following information:

POS-563-00A1: NS Geode LPX POS SBC w/VGA, LCD, Ethernet, SSD

POS-563F-00A1: NS Geode LPX POS SBC w/VGA, LCD, Ethernet, SSD, Audio, CFC, 16 MB DRAM on board

POS-563FC-00A1: NS Geode LPX POS SBC w/VGA, LCD, Ethernet, SSD, Audio, CFC, 16 MB DRAM on board & C&T69000 chipset

Contact Advantech about the POS-563 or any other embedded solutions today or get in touch with your local Advantech representative. Send us an e-mail to epc@advantech.com.tw to find out more.

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PCM-5824 for STN, EL, Plasma, Mono and TFT LCD

Advantech is introducing a new biscuit-size, 586 level Geode processor SBC that adds new LCD display capabilities to Advantech's 3.5" SBC line. The added display flexibility of the new **PCM-5824** allows Advantech customers to enjoy the cost savings benefits of using **STN** displays in their applications as well as the ability to use large size **Plasma displays** as well as **Mono and TFT displays**. Equipped with a low power Geode GXLV-200 or

GX1-300 processor, the **PCM-5824's** capabilities helps round out this series of boards.

The **PCM-5824** is Advantech's answer to many of our customers' needs. It is based on the already popular PCM-5820 SBC, but with several unique modifications.

- The PCM-5824 has C&T 69000 chipset with 2 MB memory on chip (optional 69030 with 4 MB memory on chip). **This supports 24/36 bit TFT, STN, Mono, EL or Plasma displays.** (compared to the PCM-5820's 18 bit TFT capability)
- Does not offer LVDS. (many customers do not need this option)
- Small heat sink compared to previous PCM-5820 with heat pipe (lower profile and more efficient board use).
- Space saving more compact power connector (smaller than standard 4 pole)

Adding Features Customers Needs

Many gains were also made by utilizing the Geode™ GX1 processors. The GX1 processor provides the lowest power consumption and high speed performance for any x86 processor at these performance levels. These processors also support most popular web plug-ins and leverages existing software and hardware investments.

Contact Advantech Today

Contact Advantech about the PCM-5824 and the advantages it can offer your embedded application. Pilot run production is scheduled to begin around the **middle of November, 2000**. Send us an e-mail to epc@advantech.com.tw or contact your local Advantech representative to find out more.

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Advantech Technologies, Inc. announced the opening of its Fairfield, New Jersey office to provide sales and applications engineering support to major PC OEMs throughout the U.S. Eastern Region. Mr. Ween Niu, Director, stated that, "The strength of OEM's internal design teams require close interaction and linkage between design engineers and suppliers during the design phase for new products; Advantech will be that link". Mr. Niu also added, "We are excited about this major step and able to unveil our latest embedded automation solutions to our customers in the Eastern Region."



Advantech's broad product and technology portfolio is the key to successful next-generation designs. New York, New Jersey, Delaware, Virginia, Maryland, and Massachusetts are some of the fastest growing sales regions in U.S., requiring a solid sales team with the expertise, knowledge and strategic skills that Advantech brings to the relationship with their customers.

Use the following contact information:

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Electronica 2000 at New Munich Trade Fair Centre

Advantech EC Group will present a total embedded computing solution with a special focus on our system integration service at Booth 160 in Hall A6. For board level products, we highlight a series of low-power and fan-less single board computers with various form factors and CPU power. The PCM-5823 with dual LAN capabilities is suitable for gateway device applications. The Pentium®III-based PCM-9572 employs the EBX form factor that combines PC/104-Plus to increase integration ease. The POS-561 adopts an industrial standard Flex ATX form factor with 100% compatibility to any off-the-shelf peripherals. Besides the POS-561, we also offer the LPX form factor board POS-563 with the same features as the POS-561.



For system level products, the medical-certified Panel PCs and modular series are the two themes. We are proud to announce the PPC-103, PPC-120M/123M, and PPC-150M/153M series for medical applications. These Panel PCs are UL2601/EN60601 approved and the low leakage current power supply define them as ideal and secure point-of-care solutions.

Another theme at this show is the complete Windows® CE embedded solution to meet different system integration needs. Our Windows® CE solution comes with a Flash disk with a pre-installed Windows® CE image and the Windows® CE license. In the meantime, the Web Automation Division will showcase the new WebCon series of firewall and communication gateway applications and a new home terminal proposition.

In addition to the exhibition, the ECG Pan-Europe Sales Conference will be held at the Munich Airport Marriott Hotel as a warm-up program on November 20th. The hotel is located in the centre of Freising. Hosted by ECG pan-Europe director Albert Chou, our regional sales and distributors will get together for new product announcements and exchange business and market information.

With the full spectrum of product demonstrations during Electronica 2000, we sincerely invite you to visit our booth between November 21st and 24th. You are welcome to contact our German office (<http://www.advantech.de/>) for more

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information regarding the tradeshow and conference.

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New Part Numbers	Processor	Ethernet	Replaces
PCA-6753F-G0A2	GX1-300	RTL8139C	New
PCA-6753F-E0A2	GX1-233	RTL8139C	PCA-6753F-00A1

Contact Advantech Today

Contact Advantech about the [PCA-6753F](#) and the advantages it can offer your embedded application. Release date is set for early December. Send us an e-mail to epc@advantech.com.tw or contact your local Advantech representative to find out more.

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