

## New Products

### [Advantech Empowers Your Windows® CE Solution](#)

Advantech now offers an evaluation platform and system integration service for Windows® CE solutions. Advantech's Windows CE Evaluation Platform provides a complete set of components to enable the rapid prototyping and development of your Windows CE projects. There is no need to waste time and energy on developing on-board device drivers or using the Platform Builder to create the custom Windows CE Image, Advantech has done that for you!



Tel: 886-2-2218-4567  
Fax: 886-2-2218-3875  
[Contact the editor](#)

## Recent News

### New Product

■ [Advantech WEB-2143 Web Scout with Three 100Base-T Ethernet Ports--Available Now!](#)

### Manufacturing Story

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

### Marketing Information

■ [Advantech Participates At Microsoft® Embedded Systems Global Briefings](#)

## RECENT ISSUES

[Oct 1, 2000](#)  
[Sept 15, 2000](#)  
[Sept 1, 2000](#)  
[Aug 15, 2000](#)  
[Aug 1, 2000](#)  
[July 15, 2000](#)

### [MBPC-200 Microbox PC Chassis Now Offers Dual Ethernet PCM-5823 SBC](#)

Advantech is now offering the new PCM-5823 Dual ethernet SBC as an option for the MBPC-200 Microbox PC chassis. Advantech's PCM-5823 NS Geode™ series is a 3.5" SBC that offers an onboard NS Geode™ GX1-300 processor or GXLV-200 processor, plus support for dual ethernet.



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

A smart new adapter instantly gives any Advantech SBC with a CompactFlash™ socket the ability to add an additional 2 IDE devices. Most single board computers offer only 1 IDE channel which can support 2 IDE devices. This adapter now gives an additional IDE channel for a total of up to 4 IDE device support.



## Manufacturing Story (Part II)

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

This is the Second part in a series of stories highlighting Advantech's manufacturing capabilities. Advantech is making significant gains in manufacturing flexibility, capability and efficiency by strategically implementing state-of-the-art equipment, software and process improvements.



## Product Update

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

Advantech is now phasing in this exciting new SBC plus other PCM-5820 Geode™ GX1 processor boards. With pilot runs scheduled for the **end of October**, here is a summary of some of the product benefits and more detailed ordering information.



Problems, comments, suggestions? Please contact the [editor](#)

<a href="#">EPC World</a>	<a href="#">Advantech Home</a>	<a href="#">EPC Homepage</a>	<a href="#">News Archive</a>	<a href="#">Contact Us</a>
---------------------------	--------------------------------	------------------------------	------------------------------	----------------------------

## New Product

### Advantech Empowers Your Windows® CE Solution

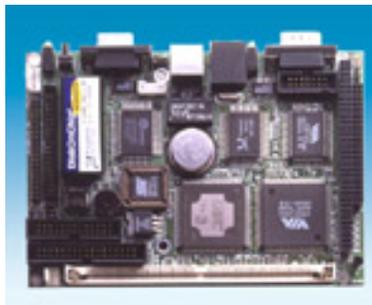


Advantech now offers an evaluation platform and system integration service for Windows® CE solutions. Being the sole direct licensed industrial SBC vendor to provide Windows® CE embedded systems, the ability to provide truly one stop shopping is now here.

Advantech's Windows CE Evaluation Platform provides a complete set of components to enable the rapid prototyping and development of your Windows CE projects. There is no need to waste time and energy on developing on-board device drivers or using the Platform Builder to create the custom Windows CE Image, Advantech has done that for you!

### A Strong Platform For Your Needs

The PCM-4823BCE-000 is Advantech's first "total solution" SBC pre-configured with a Windows CE 3.0 Image with optimized drivers for the [PCM-4823 CPU board](#). This product comes with the following:



- A pre-installed custom Windows CE Image on Flash disk.
- A Windows CE 3.0 license.
- Platform SDK for Visual C++ and Visual Basic
- Utility and Sample Programs
- Users Manual

### Making Windows CE Better

Advantech continues to develop Windows CE optimized drivers, tools and components to further enhance the Windows® CE package. Here are some key enhancements:

- Persistent registry solution for x86 platform
- Application auto launch function
- DOS-less boot loader
- Floppy drive support
- IDE Flash Disk and hard drive support

### Why Select Advantech?

Tel: 886-2-2218-4567

Fax: 886-2-2218-3875

[Contact the editor](#)

## Other News

### New Products

- [Advantech Empowers Your Windows® CE Solution](#)

- [MBPC-200 Microbox PC Chassis Now Offers Dual Ethernet PCM-5823 SBC](#)

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

### Product Update

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

### Manufacturing Story

- [Advantech Manufacturing Flexibility and Process Improvements PartII](#)

### RECENT ISSUES

[Oct 1, 2000](#)[Sept 15, 2000](#)[Sept 1, 2000](#)[Aug 15, 2000](#)[Aug 1, 2000](#)

Advantech can support the customer from initial product idea to complete system delivery. Rely upon Advantech's full service capabilities for your Windows CE project needs and release yourself from the hassles of dealing with multiple vendors supplying hardware, software and system integration. Advantech has a good selection of embedded hardware (SBCs, Panel PCs, SSDs and peripherals) that can fit your needs. From bare bone to complete system assembly, Advantech is there for you. But most importantly, Advantech provides the after sale service, support and advice for future projects.

### ***Cost-effective and Intelligent***

Advantech is committed to Windows CE. As a Microsoft direct customer, our engineering team has been working with the Microsoft Embedded Appliance and Platform Group on Windows CE development since its introduction. Over this time, Advantech has accumulated tremendous field and application experience both for hardware and software.

Contact Advantech today to find out more about a Windows CE solution for you or your customer. Also ask about the PCM-4823BCE-000 and other Windows CE solutions that are coming soon. Call your nearest Advantech representative or e-mail us at [epc@advantech.com.tw](mailto:epc@advantech.com.tw).

[TOP](#)

Problems, comments, suggestions? Please contact the [editor](#)

<a href="#">EPC World</a>	<a href="#">Advantech Home</a>	<a href="#">EPC Homepage</a>	<a href="#">News Archive</a>	<a href="#">Contact Us</a>
---------------------------	--------------------------------	------------------------------	------------------------------	----------------------------

## New Product/Product Upgrade

### MBPC-200 Microbox PC Chassis Now Offers Dual Ethernet PCM-5823 SBC

Advantech is now offering the new PCM-5823 Dual ethernet SBC as an option for the MBPC-200 Microbox PC chassis. Advantech's [PCM-5823](#) NS Geode™ series is a 3.5" SBC that offers an onboard NS Geode™ GX1-300 processor or GXLV-200 processor, plus support for dual ethernet.

The dual ethernet capability allows the MBPC-200 to support many functions and applications single ethernet SBCs can't. For example, Firewall, Router or Gateway network functions can now be accomplished using the MBPC-200 with the PCM-5823 inside. Also, because of the MBPC-200's small compact size and rugged construction, this network capability can be applied almost anywhere!



MBPC-200 with Dual Ethernet PCM-5823

The MBPC-200 has the PS-50A 50 Watt switching power supply with AC input of 100 ~ 250 Volts and DC outputs of +5 V and +12 V. The PS-50A is specially designed to operate with the MBPC-200 in the most challenging environments. And coming soon, Advantech will make the MBPC-200 even more portable by providing an optional plug-in (similar to notebook computers) power adapter that enables the MBPC-200 to be simply plugged in to any normal AC socket, adding to its versatility.

### Contact Advantech Today

The MBPC-200-5823 is available for order now. You can visit our web site at [http://www.advantech.com/products/ipc\\_chassis/mbpc-200.htm](http://www.advantech.com/products/ipc_chassis/mbpc-200.htm) to see more about the MBPC-200 Microbox PC Chassis. Contact Advantech about the MBPC-200-5823 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](mailto:epc@advantech.com.tw) to find out more.

[TOP](#)

Problems, comments, suggestions? Please contact the [editor](#)

[EPC World](#)
[Advantech Home](#)
[EPC Homepage](#)
[News Archive](#)
[Contact Us](#)

## Other News

### New Products

- [Advantech Empowers Your Windows® CE Solution](#)

- [MBPC-200 Microbox PC Chassis Now Offers Dual Ethernet PCM-5823 SBC](#)

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

### Product Update

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

### Manufacturing Story

- [Advantech Manufacturing Flexibility and Process Improvements PartII](#)

## RECENT ISSUES

[Oct 1, 2000](#)  
[Sept 15, 2000](#)  
[Sept 1, 2000](#)  
[Aug 15, 2000](#)  
[Aug 1, 2000](#)

## Product Information

### CompactFlash™ (50 pin) to Hard drive (44 pin) Adapter Now Available

A smart new adapter instantly gives any Advantech SBC with a CompactFlash™ socket the ability to add an additional 2 IDE devices. Most single board computers offer only 1 IDE channel which can support 2 IDE devices. This adapter now gives an additional IDE channel for a total of up to 4 IDE device support. Since systems normally support a CD-ROM or fax/modem IDE device on chassis, this device is a convenient way to add additional IDE support.



CompactFlash to HDD Adapter

### A Simple Way to Increase Capability

With this adapter, more options become available to the user. Customers can keep their original HDD but upgrade capacity through additional devices. Also, in many embedded solutions, operating systems can stay on one HDD while applications or important data can be easily exchanged from the other HDD device. The latter is becoming increasingly more common as products are being designed with portability and data exchange capability in mind.



4 IDE Device Support-Existing & Adapter

Industrial strength ruggedness, resistance to vibration and solid pin connections make this adapter a strong IDE platform users can depend on. The following Advantech SBCs with CompactFlash™

Tel: 886-2-2218-4567

Fax: 886-2-2218-3875

[Contact the editor](#)

## Other News

### New Products

■ [Advantech Empowers Your Windows® CE Solution](#)

■ [MBPC-200 Microbox PC Chassis Now Offers Dual Ethernet PCM-5823 SBC](#)

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

### Product Update

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

### Manufacturing Story

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

### RECENT ISSUES

[Oct 1, 2000](#)

[Sept 15, 2000](#)

[Sept 1, 2000](#)

[Aug 15, 2000](#)

[Aug 1, 2000](#)

sockets are perfect for utilizing this adapter.

- PCA-6751
- PCI-6771
- PCA-6770
- PCA-6752
- PCA-6753
- PCN-6351
- PCM-9570
- PCM-5820

### Availability

This CompactFlash™ socket to HDD adapter is available now. To order, use the following part number for reference: **CF-HDD-ADP**. Contact Advantech anytime at <http://www.advantech.com/epc> to find out more about these kind of solutions or any other embedded products we offer. You may also contact your local Advantech representative for more information.



[TOP](#)

Problems, comments, suggestions? Please contact the [editor](#)

<a href="#">EPC World</a>	<a href="#">Advantech Home</a>	<a href="#">EPC Homepage</a>	<a href="#">News Archive</a>	<a href="#">Contact Us</a>
---------------------------	--------------------------------	------------------------------	------------------------------	----------------------------

## Manufacturing Story

### Advantech Manufacturing Capabilities Continue to Make Gains

**Please Note: This is the second part in a series of stories highlighting Advantech's manufacturing capabilities. The first part focused on Advantech's SMD manufacturing lines. Click [here](#) to see this story.**

As we mentioned in the [October 1st, 2000 issue of EPC World](#), Advantech is making significant gains in manufacturing flexibility, capability and efficiency by strategically implementing state-of-the-art equipment, software and process improvements. These advances significantly increase responsiveness to internal and external customers' needs and allow Advantech to more effectively compete in this highly competitive market. Doing our own manufacturing also allows Advantech to be extremely flexible to implement new ideas plus develop and change products quickly for our customers' or the market's needs..

#### Evolving Manufacturing Improvements

Advantech continues to improve its ability to provide flexible, high quality manufacturing capabilities to its customers. Here are a few examples of the kinds of specific actions Advantech is taking to make these manufacturing quality and efficiency gains.

- **Shop Floor Information System Implemented**

As each individual product enters the Advantech manufacturing process (such as a SBC), it is given a unique Bar Code label that allows the product to be scanned with a bar code scanner and information to be continuously gathered on that particular product. At every stage in the manufacturing process, this serial number is scanned in and automatically input into the Shop Floor Information System. This SFIS seamlessly integrates into the entire manufacturing information system. From real time quality control, to packaging and shipping information, to RMA and warranty information, this serial number can be accurately traced and the relevant information that is needed can be easily gathered. Some advantages of the SFIS are shown below.



Shop Floor Information System- Realtime Information

- Extremely easy to use
- Efficient digital record for instant product history access
- Improved WIP tracking and control
- Built-in QC features (checks and verifications)
- Easier/faster production line changeover time

Tel: 886-2-2218-4567  
Fax: 886-2-2218-3875  
[Contact the editor](#)

### Other News

#### New Products

- [Advantech Empowers Your Windows® CE Solution](#)

- [MBPC-200 Microbox PC Chassis Now Offers Dual Ethernet PCM-5823 SBC](#)

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

#### Product Update

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

#### Manufacturing Story

- [Advantech Manufacturing Flexibility and Process Improvements PartII](#)

#### RECENT ISSUES

[Oct 1, 2000](#)  
[Sept 15, 2000](#)  
[Sept 1, 2000](#)  
[Aug 15, 2000](#)  
[Aug 1, 2000](#)

- More efficient RMA control (ie. 2 year warranty)

## ● Built-in quality control

Wherever possible in the manufacturing process, Advantech is using automation to improve product quality and production efficiency. Integrating technology and innovation is an ongoing endeavor for Advantech engineers.

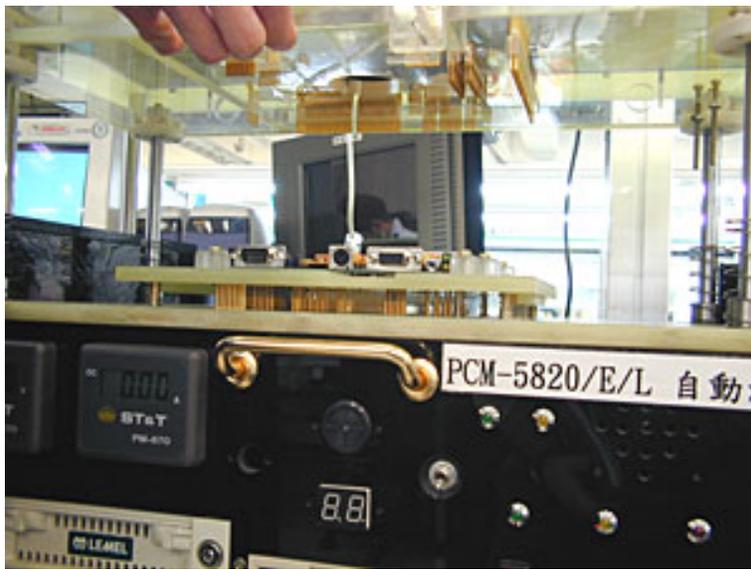
A good example of this are the "production line testing templates" now being used in Advantech factories. Designed completely in-house by Advantech engineers, these work stations were developed to help automate hardware and software testing for Advantech manufactured SBCs. The template allows for quick and efficient connection and testing of SBCs. The operator simply puts the board into the template and closes the top. All pins and connectors simultaneously connect to the SBC to simulate a live operating environment. Hardware integrity verification can proceed immediately as well as the running of critical testing software.



Engineering Improvements Increase Product Quality

These testing templates have benefited Advantech's SBC production in many ways.

- Substantially decreased test setup time
- Reduced overall product testing time
- Automated the connection (manual) process
- Reduced human error
- Allowed technicians to test two SBCs at the same time
- Allowed for more efficient SOPs to be developed
- Increased operator efficiency and output
- Decreased production line bottle necks
- Decreased product line changeover/setup time



### ***Improvements Benefit Customers***

There are many other ways Advantech is improving manufacturing and production capability. Some improvements are more complex than others, but the end result is to provide a better product to our customers.

Advantech welcomes any comments you might have about this story, Advantech's production capabilities or any other ECG product information. E-mail us at [epc@advantech.com.tw](mailto:epc@advantech.com.tw) anytime.

[TOP](#)

Problems, comments, suggestions? Please contact the [editor](#)

<a href="#"><u>EPC World</u></a>	<a href="#"><u>Advantech Home</u></a>	<a href="#"><u>EPC Homepage</u></a>	<a href="#"><u>News Archive</u></a>	<a href="#"><u>Contact Us</u></a>
----------------------------------	---------------------------------------	-------------------------------------	-------------------------------------	-----------------------------------

## Product Update

### PCM-5820 Rev B Brings Full Geode™ Processor Line Advantages

After announcing the availability of the Geode™ GX1-300 processor (**PCM-5820-G0B1**) in our [July 1, 2000 issue](#), Advantech is now phasing in this exciting new SBC plus other PCM-5820 Geode™ GX1 processor boards. With pilot runs scheduled for the **end of October**, here is a summary of some of the product benefits and more detailed ordering information.



PCM-5820 Rev. B Offers Multiple Geode Processor Options

### Improving Products For Users' Needs

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

- **Added speed**
  - PCM-5820-G0B1 with GX1-300 provides great performance and PCM-5820/L has a GX1-233 (upgrading the GXLV-200 and GXm-233 processors previously used).
- **Lower power usage and cooler operation**
  - PCM-5820 w/GX1-300 +5 V @ 1.5 A (typical)
  - PCM-5820 w/GX1-233 +5 V @ 1.4 A (typical)
  - Previous models using GXm-233 processor +5 V @ 3.0 A (typical)
  - Smaller heat sink required because of decreased heat output
  - Fanless operation
- **More flexible options**
  - For example, LVDS is now completely optional, allowing customers to better match cost to needs.

### New Part Number and Ordering Information

Old Part #	New Part # (rev. B)	Product Availability
------------	---------------------	----------------------

Tel: 886-2-2218-4567  
 Fax: 886-2-2218-3875  
[Contact the editor](#)

## Other News

### New Products

- [Advantech Empowers Your Windows® CE Solution](#)
- [MBPC-200 Microbox PC Chassis Now Offers Dual Ethernet PCM-5823 SBC](#)
- [CompactFlash™ \(50 pin\) to Hard drive \(44 pin\) Adapter Now Available](#)

### Product Update

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

### Manufacturing Story

- [Advantech Manufacturing Flexibility and Process Improvements PartII](#)

## RECENT ISSUES

[Oct 1, 2000](#)  
[Sept 15, 2000](#)  
[Sept 1, 2000](#)  
[Aug 15, 2000](#)  
[Aug 1, 2000](#)

PCM-5820-E0A1 w/GXm-233	<b>PCM-5820-E0B1 w/GX1-233</b>	Pilot Run October 2000
PCM-5820-D0A1 w/GXLV-200	<b>PCM-5820-E0B1 w/GX1-233</b>	Pilot Run October 2000
	<b>PCM-5820-G0B1 x/GX1-300</b>	Pilot Run October 2000

\*Please note: Even though Revision B products have new updated boards, they still support GXm and GXLV processors.

### *Upgrading and Enabling*

This new upgraded PCM-5820 product line with the Geode™ GX1 processors represent the latest trend in compact, fanless, low power and powerful Single Board Computers that are answering users' needs for all kinds of applications. Advantech is constantly working hard to be at the leading edge of this movement. You can [go here](#) to read more about these new low power GX1 processors. ([National Semiconductor GX1 link](#))

### *Contact Advantech Today*

Contact Advantech about these exciting new GX1 processor SBCs. Send us an e-mail to [epc@advantech.com.tw](mailto:epc@advantech.com.tw) or contact your local Advantech representative to find out more.

[TOP](#)

Problems, comments, suggestions? Please contact the [editor](#)

<a href="#">EPC World</a>	<a href="#">Advantech Home</a>	<a href="#">EPC Homepage</a>	<a href="#">News Archive</a>	<a href="#">Contact Us</a>
---------------------------	--------------------------------	------------------------------	------------------------------	----------------------------