

New Products

[New PCM-9550F Fanless EBX SBC with PC/104-Plus: Perfect for Medical and POS Applications](#)



Advantech announces the addition of a new, fanless EBX form factor single board computer to their embedded PC line, the PCM-9550F. Ideal for medical equipment and POS applications, the PCM-9550F's fast, low-power Pentium® 266 MHz processor, EBX form factor, multimedia capability and multiple digital input/outputs make it the ideal embedded platform to build a system around.

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Product Update

■ [PCM-5820 Board Now Supports NS Geode™ GX1 Processor](#)

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■ [PCA-6753F and PCA-6752F Offer Powerful Upgrade Solutions for the PCA-6153](#)

■ [EPC Rev. 1.3 CD ROM with Manual, Drivers and Utilities Now Available](#)

■ [Universal LCD Connector Development Kit](#)

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■ [Introducing PC/104-Plus](#)

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[PCD-1240V 40-Pin IDE Flash Vertical Type SSD](#)

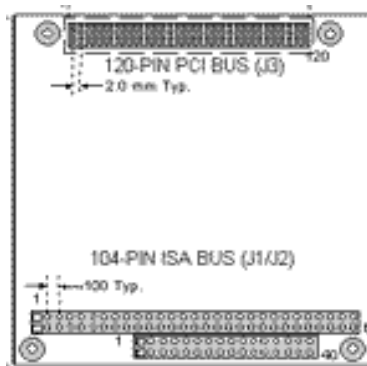
This standard 40-pin IDE interface/connector SSD Flash Disk is another way to bring Flash Disk memory capability to where its needed. Using the common 2.54 pitch 40 pin IDE connector found on most Slot PC and POS products, the **PCD-1240V** optimizes board use with its vertical configuration.



Technical Information

[More About the EBX Form Factor](#)

We would like to go into more detail about the embedded board expandable (EBX) form factor which the new PCM-9550F SBC utilizes. The EBX standard is to unify the embedded computing industry on a small embedded single-board standard.



Product Information

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



A smart new adapter instantly gives any Advantech SBC with a CompactFlash™ socket the ability to add an additional 2 IDE devices.

[PCM-5862E Phase Out Information](#)

Advantech wants to keep all our sales channels and customers informed during product transistions. Here is some information concerning the PCM-5862E.

[POS-560 Updated Ordering Information](#)

As previously announced to most of our sales channels on June 30th, the **POS-560-00B1** and the **POS-560-00B2** SBCs will be phased out soon. This is a reminder to let everyone know the exact date.

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

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Low Power Consumption, Quiet Operation

The Advantech PCM-9550F is a natural choice for medical equipment applications. With its low power consumption (typically 3 amps at 5 volts) and fanless operation in temperatures up to 60° C (140° F), the board is at home in quiet environments. The EBX form factor provides a high-speed PCI bus for faster data transfer needs, such as high-speed ethernet. Also, since the system chipset and processor are from Intel EMD, a long-term (5 year typical) component supply is guaranteed. Long-term product support is important to medical customers, where product licensing and approval is more difficult. Working closely with vendors like Intel helps Advantech service these customers, and all our customers, better.

POS Environment Needs Addressed

The PCM-9550F's built-in digital inputs and outputs, fast 266 MHz low power processor and fanless operation directly address the needs of the POS market. Eight digital inputs and eight digital outputs (TTL level signals) are provided. Four COM ports w/+/- 5 V or 12 V by jumper select are also provided as well as cash drawer support. Minimum downtime associated with this well-proven processor and chipset combination make this a favorite for POS as well as process control equipment.

True Multimedia Support

The PCM-9550F provides an array of multimedia features. These include AC97 3D surround sound, a VGA/CRT controller (C&T 69000) with built-in 2 MB memory and 36-bit LCD interface. The PCM-9550FM (available in Q4 2000) will add video-in that supports RCA and S-video connectors via optional cable kit, and TV-out capability which supports NTSC and PAL formats. There is also an optional C&T 69030 chip (on both PCM-9550F/M) with 4 MB built-in memory plus support for dual display CRT-LCD..

More Standard Options

The PCM-9550 Series allows customers to expand their range of applications by



PCM-9550F EBX Form Factor SBC

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utilizing the flexibility of the EBX form factor. The PCM-9550F allows for ISA or PCI module upgrades such as ethernet, and provides a mini-PCI socket for optional 56 K modem. Other features include 512 KB 2nd level cache, 2 LPT, 2 USB, fast IrDA and 4 serial ports (3 RS-232 and 1 RS232/422/485). CompactFlash™ as well as DiskOnChip® 2000 SSDs are both supported.

Availability

A pilot run will be done by the early part of August, with volume runs ready by the end of September, 2000. Contact your local Advantech representative to find out more about our single board computers. If you demand the highest performance and capability for your embedded applications, Advantech can help. For more information on the PCM-9550F/M, you can go to our web site at <http://www.advantech.com/epc> to find out more or contact epc@www.advantech.com.tw to find out more, we would be happy to answer any questions you might have.

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Product Information

PCD-1240V 40-Pin IDE Flash Vertical Type SSD

This standard 40-pin IDE interface/connector SSD Flash Disk is another way to bring Flash Disk memory capability to where its needed. Using the common 2.54 pitch 40 pin IDE connector found on most Slot PC and POS products, the **PCD-1240V** optimizes board use with its vertical configuration. No special drivers are needed and it hooks firmly into the existing IDE socket to give excellent error-free, vibration/shock resistance performance to any embedded configuration.



PCD-1240V

With capacities ranging from **8, 16, 32, 48, 64, 96 and 128 MB**, the PCD-1240V can perfectly match most application requirements. It currently supports the following operating systems:

- DOS, Win3.1/95/98/NT/CE, Linux, VxWorks, pSOS+, OS2, Unix and QNX.

Engineered For a Long, Trouble-free Life

The PCD-1240V has been engineered with performance and durability in mind. It offers users the following specifications:

- PIO4 data transfer (max. 16.6 MBps)
- Externally powered
- Supports wear leveling function to extend life of flash memory.
- Supports built-in ECC function to automatically detect/correct data errors
- 1 M Program/Erase cycle endurance
- 10 year data retention
- On-module Master/Slave setting

Contact us Today, Any Way You Want!

PCD-1240V Mounted on SBC



The PCD-1240V is available now from Advantech. Go to our web site at

<http://www.advantech.com/epc>

or e-mail us at

epc@advantech.com.tw for

more information on this or any other Advantech products or services. You can also contact your local Advantech representative to find out more.

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PCD-1240V Ordering

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PCD-1240V-0008	40-pin IDE Flash SSD	vertical type/8 MB
PCD-1240V-0016	40-pin IDE Flash SSD	vertical type/16 MB
PCD-1240V-0032	40-pin IDE Flash SSD	vertical type/32 MB
PCD-1240V-0048	40-pin IDE Flash SSD	vertical type/48 MB
PCD-1240V-0064	40-pin IDE Flash SSD	vertical type/64 MB
PCD-1240V-0096	40-pin IDE Flash SSD	vertical type/96 MB
PCD-1240V-0128	40-pin IDE Flash SSD	vertical type/128 MB

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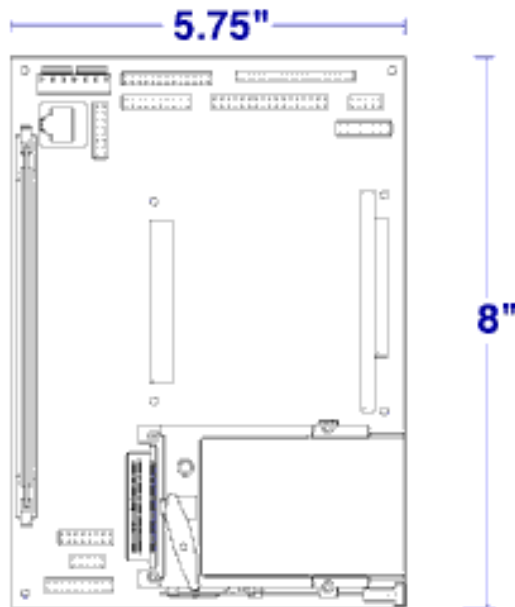
We would like to go into more detail about the embedded board expandable (EBX) form factor which the new PCM-9550F SBC utilizes. The EBX standard is to unify the embedded computing industry on a small, embedded single-board standard. EBX mainly defines physical size (5.75" x 8.0"), mounting hole pattern, PC/104-Plus location and power connector location. It also makes recommendations for serial/parallel, networking, graphics and memory expansion connector locations on the board. It does not specify processor type or other electrical characteristics. In fact, Advantech Biscuit size SBCs' mounting holes have always followed the EBX form factor specifications.

EBX Targets Embedded Applications

Perhaps the most important feature of the EBX form factor is its openness to system expansion by allowing easy expansion of functions in a modular form. This was achieved by incorporating off-the-shelf modules that use PC/104-Plus™ and PCMCIA. These common devices have also allowed EBX boards to integrate well with previous investments, such as existing PC/104 standards and PCMCIA devices. So all these common off-the-shelf standards were successfully integrated onto this highly embeddable form factor which is capable of hosting today's most advanced operating systems.

EBX For the Future

This flexible form factor lets embedded system integrators use their choice of the fastest processors and peripherals on the market today and tomorrow. On the PCM-9550F, Advantech replaced the PCMCIA socket with the processor location, permitting cooler operation. PCMCIA capabilities will be provided by a soon to be released PC/104-Plus PCMCIA module. EBX also permits the use of existing software and common standards saving on time-to-market and development cost. Look for more EBX products coming from Advantech in the very near future, including a Pentium® III level EBX form factor SBCs. For more information on EBX form factor, you can visit <http://www.ampro.com/university/wpapers/intr-ebx.htm> to learn more.



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Product Information

CompactFlash™ (50 pin) to Hard drive (44 pin) Adapter

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.

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



CompactFlash to HDD 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™

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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 will be available soon from Advantech. 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.



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PCM-5862E Phase Out Information

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1) PCM-5862E Rev. A1 to PCM-5862E Rev. A2

- **PCM-5862E-00A1 (Rev A1)** will be phased out in **August 2000**. With Sales able to take orders for Rev. A2 immediately.
- **The PCM-5862E-00A1 will be replaced by the PCM-5862E-OOA2 (Rev. A2) starting from August 2000.** The only difference between Rev. A1 and Rev. A2 is that the clock generator has been replaced. All mechanical and functional attributes of the product remain unchanged.

2) PCM-5862E/L Rev. A2's Phase out Schedule

- The **PCM-5862E/L-OOA2 (Rev. A2)** will be phased out at the end of this year. The details for this phase-out are shown below.
- **PCM-5862E/L-OOA2 Last Buy Date: 12/20/2000**
- **PCM-5862E/L-OOA2 Last Shipping Date: 1/20/2001**

- **These products will be replaced by:**

- **PCM-5864E Rev. A2 Replaces PCM-5862E Rev. A2**

Please Note: The PCM-5864E was modified from PCM-5864L which added an audio function

- **PCM-5864L Rev. A2 Replaces PCM-5862L Rev. A2**

3) PCM-5864/5864L Rev. A1 will be replaced by Rev. A2 in August/September 2000

The PCM-5864/5864L Rev. A1 will be replaced by Rev. A2 in August/September 2000. This upgrade is because the RTL8139B onboard ethernet controller will be replaced by the RTL8139C chipset.

Availability

Advantech apoligizes for any confusion this might cause, keeping our products updated with the latest technology is of course, a primary concern at Advantech. Contact Advantech anytime at <http://www.advantech.com/epc> to find out more about these kind of announcements or any other embedded products we offer. You may also contact your local Advantech representative for more information on the PCM-5864 Series.

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POS-560 Updated Ordering Information

As previously announced to most of our sales channels on June 30th, the **POS-560-00B1** and the **POS-560-00B2** SBCs will be phased out soon. This is a reminder to let everyone know the exact date. **The last-buy date will be December 31st, 2000.** After this date, availability will be based on remaining stock only. The POS-560-00B1 is already sold out, so the POS-560-00B2 (the model with the new clock generator) is the main focus of this announcement.

Coming soon will be the new POS-563 which will effectively replace the POS-560 models. We will inform everyone about this product's information and availability when all details are finalized.

Keeping You Informed

Once again, the POS-560-00B2's **last buy date will be 12/31/2000.** Contact <http://www.advantech.com/epc> for more information on this POS SBC product or any other Embedded PC products. You can also contact your local Advantech representative to find out more.

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