

Product Update

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

Advantech has upgraded the PCM-5820's PC board to accommodate National Semiconductor's new Geode™ GX1 processor. The GX1 processor brings 0.18 micron technology to the Advantech embedded PC line and allows users to enjoy the added speed and efficiency 0.18 micron technology has to offer.



PCM-5820 with GX1 Processor

Product Information

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



PCA-6753

With the PCA-6153 to be phased out near the end of this year, the PCA-6753F and PCA-6752F offer advantages and capabilities that bring more value and offer more features.

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

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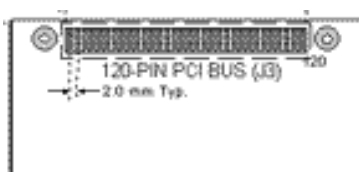
[Universal LCD Connector Development Kit](#)

Advantech now offers 2 LCD (DF13) connector kits available on all EPC products. These new kits help eliminate any LCD integration worries our customers might have. These cables were specially designed by Advantech engineers and offer both **18 - 24 bit LCD** support as well as **36- bit LCD** support.

Technical Information

[Introducing PC/104-Plus](#)

With the increased use of Pentium -level processors in PC/104-based embedded PCs, standard ISA bus throughput typical of PC/104 limits the full use of this higher processor power, however PC/104-Plus is answering these needs. PC/104-Plus allows system



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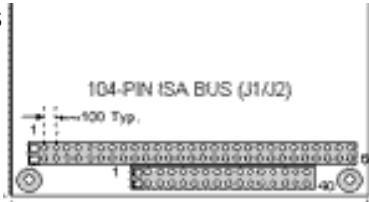
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integrators to take advantage of these processor speeds by providing a PCI expansion slot on a PC/104 form factor



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PCM-5820 with GX1 Processor

Low Power Consumption, Increased Clock Speed, x86 Technology

The GX1 processor provides the lowest power consumption for any x86 processor at this performance level. The x86 technology also supports most popular web plug-ins and leverages existing software and hardware investments. The enhanced thermal characteristics allow for creative applications and configurations that take advantage of this processor's fanless capabilities. You can go to their web site at <http://www.national.com/appinfo/solutions> to learn more about this exciting processor series.

New PCM-5820 Rev B1 Summary

The table below gives a better understanding of the transition from the Rev A1 to Rev B1 part numbers for the PCM-5820. One note worth mentioning is that even though the PCM-5820-E0B1 and PCM-5820-D0B1 have the new updated board, they still support the GXm and GXLV processors.

Part #	Features	Product Status
PCM-5820-E0A1	GXm-233 2.9 V	will be replaced by Rev.B1
PCM-5820-E0B1*	GXm-233 2.9 V	Available August 2000
PCM-5820-D0A1	GXLV-200 2.2V	will be replaced by Rev.B1
PCM-5820-D0B1*	GXLV-200 2.2V	Available August 2000
PCM-5820-G0B1*	GX1-300 2.0 V*	Available August 2000

Find Out More Today

Advantech is standing by to answer any questions you might have concerning the new GX1-300 processor. With the GX1's performance increase, low power operation and other attractive embedded application features, Advantech is sure the

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PCM-5820-G0B1 can help fill our customers' needs. Contact Advantech anytime through our web site at <http://www.advantech.com/epc> to find out more about what Advantech can offer. You may also contact your local Advantech representative for more information on how we can help provide a solution for you.

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PCA-6753F and PCA-6752F Offer Powerful Upgrade Solutions for the PCA-6153

As successors to the PCA-6153, the [PCA-6753F](#) and [PCA-6752F](#) both offer upgraded features that give users more power and flexibility to handle the latest needs of today and tomorrow. The product differences reflect the latest integration of onboard and onchip capabilities that Advantech is adding to its embedded single board computer line.

A comparison table is provided below, but first, let's focus on some of the highlighted areas (features) of the table.



PCA-6753

- **Processor-** The PCA-6753 comes with a 586-level NS GXM 200 MHz <http://www.national.com/pf/GX/GXM.html> processor mounted directly on board. This is a low-power processor that works well in temperatures up to 60° C (140° F) without need of a fan.
- With a 100 MHz bus and AGP support, the PCA-6752's Super 7 platform offers outstanding performance at a reduced cost compared to Slot 1 solutions. It supports Intel P54/P55C, AMD K5/K6/K6-2/K6-3, NS MI/MII and IDT Winchip CPUs.
- **Memory-** Both the PCA-6753 and PCA-6752 offer SDRAM 128 MB support. This offers better performance and memory capacity at almost the same price as the PCA-6153's 486-based EDO RAM.
- **Ethernet-** The PCA-6753 and PCA-6752 both offer fast 10/100 Base-T ethernet support. Allowing for network connected applications.
- **Solid State Disk-** The PCA-6753 and PCA-6752 both offer DOC® 2000 and CompactFlash™ card support.
- **ATX function-** Wake on Modem and Wake on LAN capabilities are both supported by the ATX function. This enables remote unattended applications.



PCA-6752

PCA-6153 Product Replacement Comparison Chart

Item	PCA-6153	PCA-6753	PCA-6752
Processor	Socket 7	GxM CPU on board	Super 7™
CPU speed	233 MHz	GxM 200 MHz	AMD K6 550 MHz
System chip	SIS 5571	NS GXM 5530	VIA MVP4/Trident i7
Memory	EDO 128 MB	SDRAM 128 MB	SDRAM 128 MB

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CRT	Yes	Yes	Yes
LCD	24 bit TFT/DSTN	18 bit TFT	24 bit TFT/DSTN
Ethernet	No	Yes (10/100 Bps)	Yes (10/100 Bps)
PC/104	Yes	Yes	No
SSD solution	No	DOC 2000/CFC	DOC 2000/CFC
Parallel Port	Yes	Yes	Yes
FDC	Yes	Yes	Yes
Watchdog timer	Yes	Yes	Yes
IDE Port	1	1	1
COM Port	2	2	2
ATX function	No	Yes	Yes

These product improvements allow Advantech customers to realize the most recent technological innovations to use in their embedded applications. Innovation is a process that never ends.

Keeping You Informed

The PCA-6153's **last buy date will be 11/30/2000**. Contact <http://www.advantech.com/epc> for more information on the PCA-6753, the PCA-6752 or more details about the PCA-6153 or any other Advantech products or services. You can also contact your local Advantech representative to find out more.

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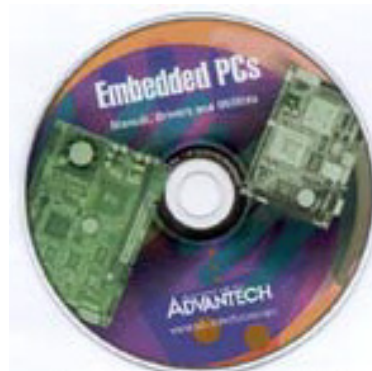
Product Information

EPC Rev. 1.3 CD ROM with Manual, Drivers and Utilities Now Available

The new updated CD-ROM containing EPC product manuals, drivers and utilities is now available. Usually updated about every 3 months, this newest **revision 1.3**, replaces the previous revision 1.2.

Some of the new products in this issue are mentioned below:

- 1.MBPC-140
- 2.PCM-5820 manual update ed. 3 to ed. 4
- 3.pcm-9574
- 4.PCA-6751 manual update ed. 2 to ed. 3
- 5.PCA-6753 manual
- 6.POS-760 manual ed. 1 to ed. 2
- 7.PCM-9570 manual ed. 2 to ed. 4
- 8.PCM-9570, PCI-6771 VGA update.
- 9.PCM-9570, 9574, PCN-6351 LAN driver+8139c
- 10.PCM-3291, PCM-3601
- 11.PCM-3345, PCM-3346 add STPC_readme.txt and stpc.inf
- 12.PCA-6770 and PCI-6771 manuals ed.1 to ed. 2
- 13.PCA-6751update 82559 driver
- 14.PCM-9550F, PCM-5823
- 15.PCM-5862E Audio add 1869



Revision 1.3 Standard CD

Updates also Available

A CD-ROM containing all the product information not in the standard CD or released "after the publication" of the above CD will also soon be available. These 2 CD's will hopefully provide all the necessary information needed for all current EPC products and are constantly being updated to ensure the most current information is available.

Giving Customers the Tools They Need

These 2 new CDs are available now. Advantech will distribute these through our normal channels. Contact Advantech anytime at

<http://www.advantech.com/support> to find out more about any additional product updates as they become available. You can usually



Product Update CD

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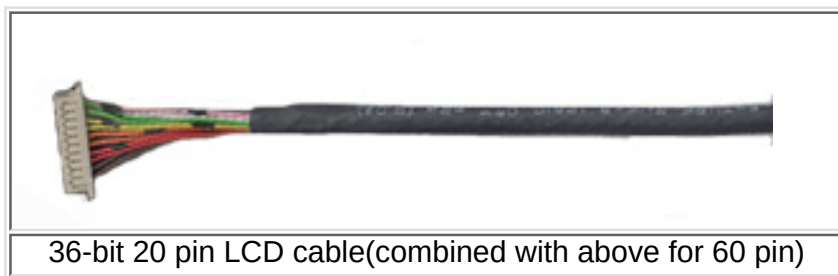
Universal LCD Connector Development Kit

Advantech now offers 2 LCD (DF13) connector kits available on all EPC products. These new kits help eliminate any LCD integration worries our customers might have. These cables were specially designed by Advantech engineers and offer both **18 - 24 bit LCD** support as well as **36- bit LCD** support.



18-24 bit 40 pin LCD cable

The cables are 36 cm long and are specially wound and well-shielded for superior flexibility and EMI resistance. With their flexible designs, these are good products that can be applied to other vendor LCD panel connectors.



36-bit 20 pin LCD cable(combined with above for 60 pin)

Below is a summary of the new part numbers.

p/n: 9681000043	40 pin 18/24 bit LCD cable	36 cm
p/n: 9681000045	20 pin 36 bit extension cable	36 cm
p/n: 9681000043	60 pin 36 bit LCD cable	36 cm ea.
p/n: 9681000045		

Availability

These 2 new LCD cable kits are available now from Advantech. 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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Introducing PC/104-Plus

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Design Requirements Accomplished

The design requirements for PC/104-Plus contained all the present criteria currently found on the standard PC/104 form factor, plus the additional requirements. Also, most importantly, PC/104-Plus had to be fully backward compatible with all existing PC/104 products. In essence, PC/104-Plus had to retain all the characteristics of PC/104 that has made it an industry standard, plus, be able to utilize the latest processor speeds and technology. The common PC/104 characteristics are summarized below, with the new PC/104-Plus requirements added in red.

- Compact in size (3.6 by 3.8 inches, standard PC/104 size)
- Self-stacking
- Pin-and-socket bus connector for harsh environments
- Four corner mounting for vibration resistance
- low power
- low heat generation
- PC compatible to leverage existing software and reduce development time
- **High-speed processor capability (PC/104-Plus)**
- **Backward compatible with all PC/104 products**

The last items on this list were smartly achieved by integrating a new 32-bit, 33 MHz PCI expansion slot onto a current PC/104 form factor. This effectively makes the same kind of breakthrough that PC/104 earlier achieved (a repackaged version of ISA that answered the unique needs of industrial and embedded applications). But now, **PC/104-Plus** is a repackaged version of PCI that effectively answers the needs of the embedded market of today and tomorrow. **PC/104-Plus upgrades the throughput capability of PC/104 from 5 MBytes/sec to an impressive 132 MBytes/sec rate.**

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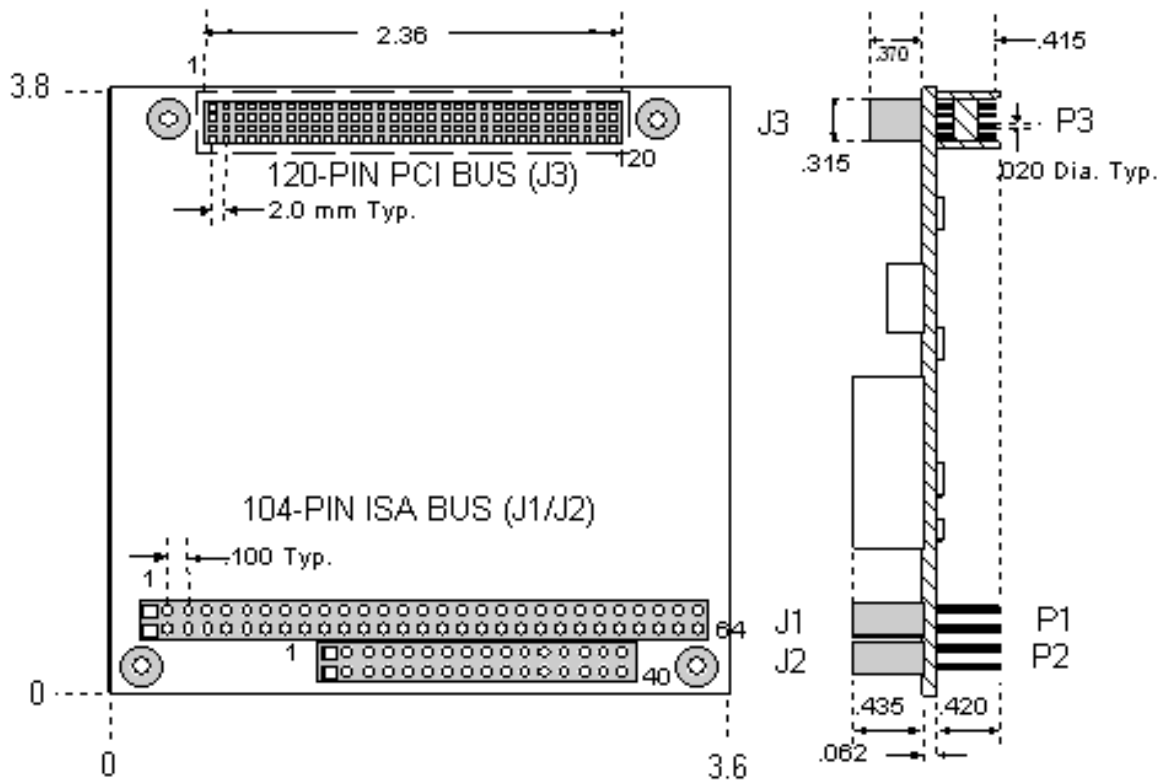
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Opening New Doors

Look for the July 15th issue of ECG World Bulletin and see how Advantech has incorporated PC/104-Plus into our new PCM-9550 SBC that is soon to be introduced. Many feel PC/104-Plus is one of many smart solutions that will help continue to drive the embedded SBC market forward.

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