

[Socket 370 Pentium® III SBC Achieves Superior Audio, Graphics and Computing Performance](#)

The new PCM-9574 is a 5.25" SBC that supports Pentium® III processors plus impressive video and audio capability. These advanced video and audio controllers in combination with Intel®'s Pentium® III processors up to 800 MHz, can satisfy system designers' most demanding video/graphics application needs.

New Product



[New PC/104 56K/V.90 Data Voice/Fax Modem Compliments All Advantech SBCs](#)



The new PCM-3601 PC/104 56 K/V.90 Voice/Fax modem allows system integrators to easily add powerful modem capability to all their embedded applications. This full featured modem card is a perfect match for all Advantech Biscuit PCs.

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[ECG Product EMI/Safety Certificate Update](#)

The Embedded Computing Group at Advantech would like to give a brief review of electromagnetic emissions and safety requirements plus update all our products' current certificate status.



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[Embedded PC Digital Solution Guide Now Available](#)



The digital version of the 2000 Embedded PC Master catalog is now available on CD-ROM.

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New Products

Socket 370 Pentium® III SBC Achieves Superior Audio, Graphics and Computing Performance



PCM-9574 Pentium® III Biscuit SBC

The new PCM-9574 is a 5.25" SBC that supports Pentium® III processors plus impressive video and audio capability. This socket 370 biscuit SBC offers a Trident™ Cyber 9525 DVD controller for on-chip 2 x AGP 3D VGA/LCD as well as an on-chip hardware-assisted MPEG II accelerator. The ESS 1989 Audio controller with 1.1 W per channel amplifier supports AC97 3D stereo surround sound with additional support for a MDC connector for optional software modem card. These advanced video and audio controllers in combination with Intel®'s Pentium® III processors up to 800 MHz, can satisfy system designers' most demanding video/graphics application needs. The Pentium® III processor also helps to simplify system integration and management, preserving previous software and hardware investments while providing a strong base to

accommodate future system growth and upgrade.

Wide Range of Flexibility

The PCM-9574 has a large array of features that offer increased flexibility to system integrators. Socket 370 design with 100 MHz FSB support not only allows this board to use Pentium® III CPUs, but also allows Celeron™ processors of 533 MHz or higher to be used. Celeron processors allow for good performance in a more cost-effective solution. A PCI 10/100 Mbps Ethernet interface is provided which supports remote Boot-ROM. Two 144-pin SODIMM sockets accept up to 256 MB SDRAM. Other on-board features include four serial ports, one multi-mode parallel (ECP/EPP/SPP)

port, two USB ports, one infrared port (FIR), one CompactFlash™ socket for CFC, a floppy drive controller and keyboard/PS/2 mouse interface. Microphone in, Line in, CD audio in, line out, speaker L and speaker R are all provided. There is a PCI IDE controller that supports PIO and UDMA/33 bus master modes. Up to two IDE devices can be connected, including large disk drives, CD-ROM drives and tape backup drives. The PCM-9574 complies with the "Green Function" standard and supports doze, standby and suspend modes. The board's watchdog timer is



PCM-9574 Board Layout

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software enabled/disabled and can generate system reset for increased unattended dependability.

Endless Application Possibilities

With the PCM-9574's outstanding on-chip video and audio capabilities, when combined with a Pentium® III processor, this board becomes one of the world's smallest and most powerful all-in-one socket 370 solutions available on the market. Having DVD capability and MPEG II support plus AC97 audio, the PCM-9574 is a good choice when applying a DVD platform in the Embedded market.

Availability

The PCM-9574 is available now. Contact Advantech today. You can always find Advantech at <http://www.advantech.com/epc> to get more information on the PCM-9574 or any other products.

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New Products

New PC/104 56K/V.90 Data Voice/Fax Modem Compliments All Advantech SBCs



Biscuit PC Solution: PCM-3601 on PCM-5820

The new PCM-3601 PC/104 56 K/V.90 Voice/Fax modem allows system integrators to easily add powerful modem capability to all their embedded applications. This full featured modem card is a perfect match for all Advantech Biscuit PCs, Half-size CPU cards and of course, our PC/104 series of SBCs. This fast and rugged modem gives the ability to take advantage of increasingly common 56K transmission speeds as well as complete voice/fax capability. The PCM-3601 is right at home in an industrial environment or a wide variety of embedded applications such as home/building networking, security systems

and point of sale uses, to name a few.

Tough, Full-featured, Ready to Work!

The PC/104 form factor allows for maximum performance in space-limited and harsh environment applications. The Rockwell DSP (hardware data pump) meets the ITU-T V.90 standard of 56K bps max data transmission without additional CPU loading. Full duplex voice functionality is supported as well as the G3 standard of 14.4K fax transmission. Additional features and specifications are listed below.

- 56K data/voice/fax modem
- Rockwell data pump
- Full duplex speaker phone support
- High speed 16C550 UART
- Max. modem speed: 56 K bps
- Max. Fax speed: 14.4 K bps
- Data mode:
 - CCITT V.90, K56 Flex, V.34, V.32 bis, V.32, V.23, V.22 bis, V.22, V.21, Bell 212A/103
- Fax mode:
 - ITU-T G3 fax modulation, T.30, V.17, V.29, V.27ter, V.21 CH2, supports class 1 & class 2 commands.
- Voice/Audio mode:
 - PCM or enhanced ADPCM compression/decompression



PC/104 Solution: PCM-3601 Stacked on PCM-3346

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- Tone detection/generation and call discrimination
- Concurrent DTMF detection
- 8 bit monophonic audio data encoding at 11.025K Hz or 7.2K Hz]
- Power consumption: 350 mA (max)
- Operating environment: 0 ~ 55° C

Availability

The PCM-3601 is available now. If you are looking for a full featured data/voice/fax modem card capable of being applied to the most space limited and demanding environments, check this card out. Contact Advantech today. Call your local sales representative or call Advantech at <http://www.advantech.com/epc> to get more information on this or any other products.



PCM-3601 on PCA-6770 Half-size SBC

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ECG Product EMI/Safety Certificate Update

The Embedded Computing Group at Advantech would like to give a brief review of electromagnetic emissions and safety requirements plus update all our products' current certificate status. Beyond the obvious technical and bodily safety requirements, the reasons for our internal and external customers to better understand these requirements are similar. Fully understanding individual market (country) regulations and how they relate to our products helps increase market awareness and better understand customers' needs and generate new ways to increase sales.

Performing Similar Services

Most certification organizations provide similar services, with some overlap and sharing of various requirements. Electronic product specifications typically center around bodily safety, Electromagnetic Interference (EMI) and Electromagnetic Compatibility (EMC). Some required certificates with the relevant countries are shown below.

FCC	USA	EMC
UL	USA	Safety
CE	Europe	EMI
VCCI	Japan	EMI
T-Mark	Australia	EMI
BSMI	Taiwan	EMC
CSA	Canada	EMC
CCIB	PRC	EMI

The US **FCC Emissions** (part 15 for electronic devices) is a federal regulation that sets exact limits on the amount of Electromagnetic Interference (EMI) allowable and to limit its interference with broadcasting. Requirements fall into 2 categories. **Class A for industrial** and **Class B for residential/public/office**. Class A can be identified as having a form factor that is incompatible for home use or marketed for industrial use. Class B is more rigorous with more stringent test limits. Many other countries follow these guidelines.



A **CE** marking means your product complies with all European requirements and you can provide evidence indicating this. The CE mark is not an approval, there is no third party testing or certification required. However, Advantech goes beyond these requirements and always gets third party CE adherence testing. The standards also employ a Class A and Class B rating, similar to the US FCC.

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Underwriters laboratories Inc. (**UL**) and Canadian Standards Association (**CSA**) are private and public testing and certification companies respectively. Likewise, the Voluntary Control Council for Interference Technology Equipment (**VCCI**) is a voluntary organization which regulates computing devices in Japan.



Below is a summary of all Advantech ECG products' certificates

Model	CE	FCC	UL	VCCI	BSMI	T-Mark	CCIB	CSA
PCM-9570/S	A	A						
PCM-5864/L	A	A						
PCM-5822	A	A						
PCM-5820/L	A	A						
PCM-3346	A	A						
CPC-2245	A	A						
PCI-6771F/P	A	A						
PCA-6770	A	A						
PCA-6751/V/L	A	A						
PCA-6752	A	A						
PCA-6753	A	A						
PCN-6351	A	A						
PPC-A84T	B	B	TESTING	TESTING				TESTING
PPC-102	A	A	YES					YES
PPC-120	B	B	YES	YES	YES			YES
PPC-120-DC	B	B						YES
PPC-120-EW	B	B						YES
PPC-123*	B	B	TESTING	YES	TESTING			TESTING
PPC-150	B	B	YES	YES	YES			YES
PPC-153	B	B	TESTING	YES	TESTING			TESTING

A = Class A , B = Class B, * = Economy Model included

Find Out More Today

Call your local Advantech representative today for more EMC/EMI information specifics on these products. You can also visit our web site at <http://www.advantech.com/epc> to find out more. Let Advantech provide a solution for you today.

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Embedded PC Digital Solution Guide Now Available



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Catalog

The Embedded Computing Group at Advantech has just released a new 36 page direct mailing catalog. This catalog contains the most common and hottest selling ECG products along with the relevant pricing information. It is provided to have an immediate positive impact on sales.

The catalog contains EPC and PPC products and has six special promotion products that include the PPC-120T-EW and PPC-150T for PPC and the PCM-5864L, PCM-5820E, PCA-6751-FOB1 and PCM-3346F for EPC. The promotional period runs from April 1st to the end of June.

Individual RBUs and even individual branches can use these digital files to make their own customized versions of this catalog. This is the first version of this catalog, another version for the 2nd half of the year will come later. Contact the ECG Marketing team today for your customized solution.

ECG Releases New Direct Mailing



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