

New Product

[PCM-3350 Geode™ GX1-300 PC/104 Module Brings Fanless, High Performance Operation to its Product Class](#)

Advantech is introducing a powerful new Geode™ GX1-300 PC/104 CPU card. The **PCM-3350**, with its GX1-300 onboard processor and low power, fanless performance, represents Advantech's next generation of high speed, low power PC/104 family of products. The stable Geode processor, onchip PCI VGA for VGA and TFT LCD support, and rock solid Intel® 82559 High performance Ethernet chip, provide amazing power and functionality.



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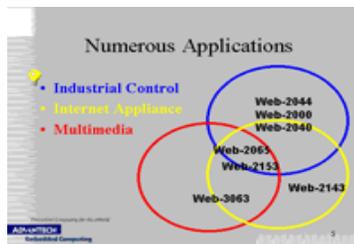
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Product Update

[Advantech's WebCon Series is coming to the eWorld!](#)

Advantech WebCon Series provides the following advantages to our customer: Quality, Support, Flexible ODM services, and fast Time to Market. The Webcon Series was created from two already successful products: the Web-2040 and Web-2143. The Web-2040 is more than a x86 computer box.



[PCM-9574 Upgrades With The Times](#)

Advantech is announcing the latest revision of its PCM family of products, the PCM-9574. The latest revision is called the PCM-9574-00A3 and now fully supports Intel Pentium® III chipsets up to a blinding 850 MHz.



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The PCM-3350 is of course great for rugged industrial applications typically associated with PC/104 boards, but with such a powerful processor/system chipset, it is also great for applications such as medical equipment, small Internet appliances and other embedded controllers. Think of the PCM-3350 as a super small desktop computer, ready to go where you need it.

GX1-300 Processor Strong on any Platform

Many gains were made by utilizing the Geode™ GX1 processor. 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. The GX1 processor brings 0.18-micron technology to the Advantech PC/104 line and allows users to enjoy the added speed and efficiency 0.18-micron technology has to offer.

Super Small Versatile Performer

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The PCM-3350 has all the power and features indicative of larger CPU control boards, but checks in at the standard PC/104 size of 96 mm x 90 mm! It is the perfect 586-level upgrade for our PCM-3346 486 DX66 CPU module. Because it retains the exact same pin layout configuration, it can quickly plug in to any existing PCM-3346 application. It has 256 KB Flash memory, a 144-pin SODIMM socket which can accept up to 128 MB SDRAM, and support for up to two EIDE devices with BIOS auto-detect, PIO Mode 3 or Mode 4 transfer, Ultra DMA33 mode (ATA-4) up to 33 MB/sec. The PCM-3350 supports up to two FDDs plus one serial RS-232 port and one



RS-232/422/485 port. There are two USB 1.0 compliant ports, one parallel port and a mini-DIN connector that supports a standard PS/2 keyboard and mouse. There is a CompactFlash™ socket that can act as an emulated hard drive as well. An 18-bit TFT LCD panel is supported with flat panel display resolution up to 1024 x 768 @ 18 bpp. Non-interlaced CRT monitor resolutions up to 1024 x 768 @ 24 bpp are also supported. Along with APM 1.1 power management, an infrared port and watchdog timer support, the PCM-3350 has all the features that make it a full-featured performer in any computer class.

Summary of Features and Specifications of the PCM-3350

- **CPU:** Embedded Low power NS Geode GX1-300 MHz processor
- **Chipset:** NS CS5530
- **BIOS:** AWARD 256 KB Flash memory
- **System memory:** One 144-pin SODIMM socket accepts up to 128 MB SDRAM
- **Enhanced IDE interface:** Supports up to two EIDE devices. BIOS auto-detect, PIO Mode 3 or Mode 4 transfer, Ultra DMA33 mode (ATA-4) up to 33 MB/sec
- **FDD interface:** Supports up to two FDDs/ 2.5" FDD
- **Serial ports:** One serial RS-232 port, one serial RS-232/422/485 port
- **Parallel port:** One parallel port, supports SPP/EPP/ECP mode
- **Infrared port:** Shared with COM 2. Transfer rate up to 115 kbps
- **Keyboard/mouse connector:** Mini-DIN connector supports standard PS/2 keyboard and mouse
- **Watchdog timer:** 1.6 sec. intervals/VGA Interface
- **Display memory:** 1 ~ 4 MB share memory, set in BIOS
- **Display type:** Supports CRT and TFT LCDs. Able to display both CRT and flat panel simultaneously
- **Flat-panel display mode:** Panel resolution supports up to 1024 x 768 @ 18 bpp. Supports 18-bit TFT LCD panel

- **CRT display mode:** Non-interlaced CRT monitor resolutions up to 1024 x 768 @ 24 bpp
- **Ethernet Chipset:** Intel 82559 ER
- **Ethernet interface:** PCI 10/100 Mbps Ethernet. IEEE 802.3 U protocol compatible
- **Connection:** On-board 2 x 5 2.0 mm connector
- I/O address switchless setting
- Built-in boot ROM
- Supports CompactFlash™ cards
- **Dimensions:** (L x W): 96 mm x 90 mm (3.77" x 3.54")
- **Weight:** .11 kg (.24 lb)
- **Operating temperature:** 0° ~ 60° C (32 ~ 140° F)
- **Storage temperature:** -40° ~ 85° C (-40 ~ 185° F)
- **Operating humidity:** 0% to 95% relative humidity, noncondensing
- **Power supply voltage:** + 5 V ± 5 %
- **Power requirements:** 2.0 A + 5 V, Max w/GX1-300 MHz CPU & 64 MB

Contact Advantech Today

The **PCM-3350** will be available in April. Contact Advantech about the PCM-3350 PC/104 CPU module or any other embedded solutions today or get in touch with your local Advantech representative to find out more. You can also send us an e-mail to epc@advantech.com.tw to get more information.

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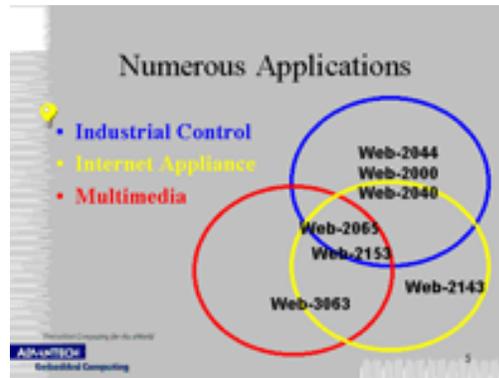
The Webcon Series was created from two already successful products: the Web-2040 and Web-2143. The

Web-2040 is more than a x86 computer box. Its most significant features include 3 COM ports that can control 2 devices through RS-232 and RS-485, 6 digital

high-drive outputs that directly switch on/off high-powered devices, such as signal lamps, small motors, and relays in factories, and a solid aluminum case that serves as a thermal control and EMI guard. With its Web server capabilities and remote utility that both provide users a useful software tool to control and request devices linked to the Web-2040, the Web-2040 can also be used as a controller in industrial applications that use ADAM series connections or PLC devices interfaced with the internet.

The Web-2143, equipped with 3 10/100 BaseT LAN ports, is suitable for various firewall applications, other DMZ functions or ID identification for the Internet services. In fact, one of our ODM customers is using the Web-2143's design as their hardware solution for their firewall products. Another ISP is implementing the Web-2143 into their ID identification services. Both the Web-2143 and Web-2040 have enabled Advantech customers to realize many of their state of the art applications.

[More Products to Come](#)



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In the coming months, Advantech will continue to bring more practical and advanced WebCon Series products to the eWorld which will be categorized into 3 vertical markets: Industrial Applications, Internet Appliances, and Multimedia:



1. For Industrial Applications, such as traditional automation control, ERP (Enterprises Resources Planning), BTO (Build to Order), and Value Chain Management, WebCon Series products will help in real time data acquisition and process control. Web-2000's StrongARM RISC solution can work in a 0° ~ 70° C environment with lower power consumption, about 20 % less than x86 products. Web-2044 provides 4 COM ports that links 4 PLC/ADAM devices.

2. For Internet Appliances, such as a Firewall, VPN, server, and gateways, Web-2153, Geode GX1 CPU, and Web-3063 and Web-2065, both equipped with Transmeta TM-5400 and PCMCIA interfaces, can provide powerful communication and computing capabilities.

3. For multimedia, such as Music Boxes, Kiosks, X media, or Webpay Phones, Web-2065 provides superior Audio and Video functions that can help our customers fully utilize our WebCon Series products into their numerous multimedia applications.

The WebCon Series can help our customers achieve fast Time to Market for their applications. The design methodology of the WebCon series is to carry the SOM-144 plug-in modules into WebCons' carrier board, greatly reducing design and development cycle time compared to traditional ODM single board solutions. This

Find out today

Contact Advantech today about and let us explain how the WebCon Series of products can enhance your embedded applications. E-mail us at epc@advantech.com.tw or call your local Advantech representative to find out more.

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