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[New PCM-5823 SBC is Powerful Networking Engine](#)



Advantech's new 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 provides support for many functions and applications single ethernet SBCs can't. For example, Firewall, Router or Gateway network functions can now be accomplished using the PCM-5823.

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

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[Advantech Products Adopt Newest Mini PCI 56K Modem](#)

Advantech continues to embody the latest technology by offering a new Mini-PCI 56K modem in its product line. The specifications of the Mini PCI modem make it perfect for embedded applications. Qualities such as V.90/K56 voice/data/fax capability, an extremely small size, low power consumption and a higher-bandwidth bus, all effectively address the communication needs of the embedded SBC market.



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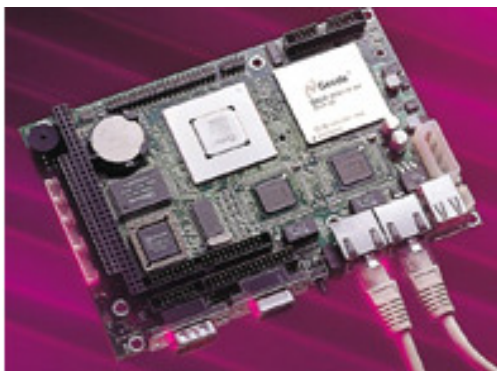
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New Product

New PCM-5823 SBC is Powerful Networking Engine

Advantech's new 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. Both these onboard, low-power, 586-level Geode processors ease system configuration and upgrade, plus provide high-speed fanless operation in temperatures up to 60° C (140° F).

The dual ethernet capability provides support for many functions and applications single ethernet SBCs can't. For example, Firewall, Router or Gateway network functions can now be accomplished using the PCM-5823. Also, because of the PCM-5823's low-power consumption, small size of 145 mm x 102 mm (5.7" x 4") and stand-alone ability, this network capability can be applied almost anywhere!



Dual Ethernet PCM-5823 SBC

Dual Ethernet Flexibility

The dual ethernet capability and processing power of the PCM-5823 make it a smart choice for system integrators dealing with today's changing application needs. The board comes with the impressive Intel 82559E LAN chip or the more cost-effective Realtek RTL 8139C LAN chip. Both provide strong dual PCI 10/100 Mbps Ethernet support. Utilized as a DMZ device, the PCM-5823 can be used as a firewall that sits between the internet and a company's internal network. This solution is effective for Web (HTTP) servers, FTP servers, SMTP (e-mail) servers or DNS servers. The PCM-5823 can also be implemented as an internet-network gateway (router) that connects a number of local networks.

Strong Standard Features

The PCM-5823 has an impressive SBC specification list. Based on the PCM-5820 series SBC, the PCM-5823 maintains a strong list of base functions that make it a capable performer in any stand-alone or embedded environment. Listed below is a quick summary of some of these.

- **Audio Function (optional)**
 - Supports AC97 interface for optional audio module (audio module available in Q4, around end of October)
- **ISA-bus expansion with onboard PC/104 connector**
- **BIOS:** AWARD 256 KB Flash memory
- **System memory:** One 144-pin SO DIMM accepts up to 128 MB SDRAM
- **Enhanced IDE interface:** Supports up to two EIDE devices. Ultra DMA33
- **FDD interface:** Supports up to two FDDs

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- **Serial Ports:** one serial RS-232 port, one serial RS-232/422/485 port
- **Watchdog timer:** Software enable/disable intervals at 1.6 seconds
- **Parallel port:** One parallel port, supports SPP/EPP/ECP mode
- **Keyboard/mouse connector:** Mini-DIN connector supports standard PC/AT keyboard and PS/2 mouse
- **USB interface:** Two USB port connectors on front side
- **Infrared port:** Supports up to 115 kbps transmitting rate
- **Power management:** APM 1.1 compliant
- **Flat Panel/VGA display:**
 - Chipset: NS CX5530
 - Display memory: 1 ~ 4 MB shared system memory
 - Display type: Simultaneously supports both CRT and 18-bit TFT LCD displays (supports 3.3 V LCD) Non-interlaced CRT monitor resolution up to 1024 x 768 @ 16 bpp or 1280 x 1024 @ 8 bpp
- **CompactFlash:** one 50-pin socket provided

Find Out More Today

The PCM-5823 is in pilot run production now, with mass production starting soon. Also available in early Q4 will be the MBPC-200-5823 chassis specially designed to accommodate the PCM-5823, as well as the optional audio module. Call your local Advantech sales contact to find out more about the dual ethernet PCM-5823 3.5" size SBC from Advantech. Or e-mail us at epc@advantech.com.tw today, to find out more.

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New Product

Advantech Products Adopt Newest Mini PCI 56K Modem



Mini PCI Modem- Super Small, Super Powerful

Advantech continues to embody the latest technology by offering a new Mini-PCI 56K modem in its product line. With a Mini PCI socket and modem now being offered on the just released EBX **PCM-9550 SBC** and the top-of-the-line **POS-760** point-of-sale board, this new Mini PCI modem card represents the latest gains in PCI technology.

The specifications of the Mini PCI modem make it perfect for embedded applications. Qualities such as V.90/K56 voice/data/fax capability, an extremely small size, low power consumption (3.3 V DSP/CODEC with enhanced power-saving modes) and a higher-bandwidth bus, all effectively address the communication needs of the embedded SBC market. With a board size of 44.45 mm x 59.6 mm x 4.9 mm that is routed through an onboard 124-pin card-edge connector only 3 mm in height, the Mini PCI modem maintains a very low profile that is attractive for space restricted embedded applications.

Perfect for Embedded Use, Good for Advantech Customers

Developed mainly for the needs of the portable computer market, Mini PCI defines a very small internal card that is functionally identical to standard desktop computer PCI cards. Advantech's current supplier for these boards also manufactures Mini PCI modem cards for some of the world's leading notebook computer makers. Therefore, this modem card has already received approval in many countries (see specifications list).



Inserting Mini PCI Modem into PCM-9550F SBC

Mini PCI also benefits embedded customers in other ways.

- Mini PCI cards can easily be replaced if they fail or need to be upgraded. Many current integrated communications devices require the entire system board be replaced in these cases.
- Standardization of the Mini PCI form factor facilitates the speed at which new

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designs can reach the market. Customers can choose what communication features they need, providing for more flexibility and streamlining the overall product development process.

- Embedded customers should also benefit from cost savings and innovations achieved in the future Mini PCI market. With notebook computers leading the way in this competitive market, prices should drop, quality should increase and innovation should give new products. New products like the Mini PCI combination modem/ethernet are already hitting the notebook computer market.

Summary of Advantech Mini PCI Specifications

Below are some of the primary specifications of Advantech's Mini PCI modem card:

Mini PCI V.90/K56flex modem- type IIIB
Supports both APM and ACPI pwr mgmt
Wake-on-ring from D3 Cold
US, Canada, Singapore, Hong Kong and CTR21 (18 European) DAA regulation approval
Data Mode capabilities: Ultrahigh compression throughput ITU-T V.34 extended rates: 33.6 Kbps -2400 bps V.32terbo, V.32bis, and fallbacks TIA/EIA 602 standard for AT command set V.42 error correction (LAPM & MNP) V.42bis and MNP Class 5 data compression
Fax Mode capabilities: ITU-T V.17, V.29, V.27ter and V.21 Ch2 TIA/EIA 578 Class 1 FAX Telephone answering mach (TAM) Optional FDSP (Full-duplex speakerphone) enhanced low-power modes digital line protection
Operating System Support: Windows 95/98 Windows NT 4.0, Windows 2000 (NT 5.0)
Power requirements: Operating voltage: +3.3 V \pm 5% @ 140 mA max +5.0 V \pm 5% @ 10 mA max

Availability

This Mini PCI modem is available now for the PCM-9550F and the POS-760 CPU boards, use the following order information that is listed with these products.

Part #: 9689000198 Mini PCI 56K Modem

Contact Advantech anytime at epc@advantech.com.tw to find out more about the Mini PCI modem, the PCM-9550F or the POS-760, or any other embedded products we offer. You may also contact your local Advantech representative for more information.

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