

## Prime News



### [PCM-5825 Product Launch](#)

Four COM ports make the PCM-5825 a strong contender for projects that require added I/O capability. And the IRQ sharing means that the COM ports don't chew up four whole IRQs.

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## Announcement



### [Advantech the One and Only Gold-level Partner in Microsoft's Windows Embedded Partner ODM Category](#)

When people search for an Original Design Manufacturer on the Microsoft website, Advantech rises, like gold, to the top.

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## Prime News

### PCM-5825 Product Launch



Four COM ports make the PCM-5825 a strong contender for projects that require added I/O capability. And IRQ sharing means that the COM ports don't chew up four whole IRQs. The immediate predecessor, the [PCM-5820](#), has two COM ports, but no IRQ sharing. So PCM-5825 = PCM-5820 - LVDS + (COM 3, 4) + IRQ sharing. The PCM-5825 provides all the advantages of the Geode GX1 processor—lowest power consumption for any x86 processor at these performance levels, low heat, and fanlessness—plus added I/Os.

### COM Ports Are Hot

USB may be popular for the desktop set, but for industrial PCs, COM ports are where the action is. COM ports are the channel of choice for text displays, touchscreens, industrial controls, bar code readers, and thermal printers, to mention a few. The PCM-5825 also supports two USB ports.

### Easy Upgrade

The PCM-5825 has the same front panel as the PCM-5820, which should make for an easy upgrade path. Similar to the PCM-5820 Series, the PCM-5825 is a 3.5" SBC with a low power, fanless, embedded 586-class NS GX1 processor. Other on-board features include VGA/LCD, Audio, a CompactFlash Card socket, and 10/100Base-T Ethernet. This board is a feature-packed, 586-level, hassle-free solution for space-critical applications, especially where increased COM port capacity is required.

### Ordering Information

- **PCM-5825-G0A2:** SBC w/ GX1-300/4COMs/VGA/LCD/LAN/Audio

### Availability:

Orders may be placed in the first week of February 2002, with first shipment at the end of February.

### Features

- Compact size (145 x 102 mm) fits in the space of a 3 1/2" HDD ISA-bus expansion with on-board PC/104 connector

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- On-board NS GX1-300 MHz CPU
- On-board 10/100 Base-T Ethernet
- On-board Audio interface
- On-board VGA/LCD display controller, with optional 18-bit LVDS interface
- Compact Flash Card support
- Single +5 V power supply

## Specifications

- **CPU:** Embedded NS GX1-300 processor, or (optional) Embedded NS GX1-233 processor
- **BIOS:** AWARD 256 KB Flash memory
- **System memory:** One 144-pin SODIMM socket accepts up to 256 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
- **Serial ports:** Four RS-232 serial ports, one RS-232/422/485 serial port. COM1, 3, 4: RS-232; COM2: RS-232/422/485
- **COM ports share IRQ:** 4 COM ports can share one IRQ.
- **Parallel port:** One parallel port, supports SPP/EPP/ECP mode
- **Infrared port:** Shared with COM2. Transfer rate up to 115 kbps
- **Keyboard/mouse connector:** Mini-DIN connector supports standard PC/AT keyboard and PS/2 mouse
- **USB interface:** Two USB ports, USB 1.0 compliant
- **Power management:** Supports power saving modes including Normal/Standby/Suspend. APM 1.1 compliant
- **Watchdog timer:** 1.6 sec. intervals
- **VGA/LCD**
  - **Chipset:** NS CX5530
  - **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 @ 16 bpp. Supports 18-bit TFT LCD panel
  - **CRT display mode:** Non-interlaced CRT monitor resolutions up to 1280 x 1024 @ 8 bpp or 1024 x 768 @ 16 bpp LVDS Module (optional)
- **Audio**
  - **Chipset:** NS CX5530
  - **Audio controller:** AC97 version 2.0 compliant interface
  - **Audio interface:** Microphone in, Line in, CD audio in, Line out, Speaker L, Speaker R
- **Ethernet**
  - **Chipset:** RTL 8139
  - **Ethernet interface:** IEEE802.3u 100BASE-T

- **Connection:** On-board RJ-45 connector
- I/O address switchless setting

- **SSD**

- Built-in boot ROM Solid State Disk
- Supports one 50-pin socket for CompactFlash™ card

- **Mechanical and Environmental**

- **Dimensions:** (L x W) 145 mm x 102 mm (5.9" x 4.2")
- **Power supply voltage:** +5 V (4.75 V ~ 5.25 V)
- **Power requirements:** +5 V @ 1.3 A (typical for PCM-5825 w/ GX1-300) +5 V @ 3A (Max.)
- **Operating temperature:** 0 ~ 60° C (32 ~ 140° F)
- **Weight** (total package): 0.77 kg

### **Contact Information**

For more information on the new PCM-5825, or any other SBC products, contact your nearest Advantech representative or e-mail us at [epc@advantech.com](mailto:epc@advantech.com) today.

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## Announcement

### ***Advantech the One and Only Gold-level Partner in Microsoft's Windows Embedded Partner ODM Category***



It is an honor that Microsoft regards Advantech as the premier Gold-level company which can provide hardware and software ODM design and manufacturing for the embedded computing world. At present, Advantech is the only Gold-level Microsoft Embedded Partner in the ODM category. Now when people search for an Original Design Manufacturer on the Microsoft website via <http://www.msweb.com>, and use the "Find a Partner" search engine, Advantech stars at the top of the list of 14 ODM partners worldwide. And Advantech is the only Gold-level Partner in the field.

### ***Gold Rises to the Top***

In the System Integrator category of Microsoft Embedded Partners, there are 58 partners worldwide, and Advantech shares Gold level billing with 12 other corporations. In the Independent Hardware Vendor category, there are 252 partners worldwide, but only 15 at the Gold level, with Advantech of course being one of them.

### ***Extensive Experience***

Advantech has worked developing Windows Embedded systems and customized Windows Embedded images for many years, and provides a full range of Windows Embedded OSs, including Windows CE, Windows CE .NET, Windows NT Embedded, Windows XP Embedded, and Windows 2000 with Server Appliance Kit. Advantech's Embedded Software Service has made Windows Embedded breakthroughs in direct video capture, VOIP, and x86 instant-on capability. Advantech also supplies hands-on customer training in Windows Embedded platform development. For more details about Advantech's involvement with Windows Embedded Systems, see the [January 15th issue](#) of the EPC newsletter.

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## ***Expertise at Your Service***

Advantech continues to build on its strong base of expertise with Windows Embedded systems, and is pleased to acknowledge the recognition that continues to come its way. To find out how Advantech can put this expertise to work for you, contact your nearest Advantech representative, or email us at [epc@advantech.com](mailto:epc@advantech.com)

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