

## Prime News

### [Advantech Introduces 3.5" Single Board Computer with Low-Power STPC Elite Processor](#)



The PCM-9340 is Advantech's new 3.5" Biscuit single board computer with an on-board, embedded, low power STPC Elite 133 MHz processor. On-board features include 32 MB system memory, a VGA/LCD controller with 36-bit LCD TFT display and 10/100 Mbps PCI Ethernet interface. ([read more....](#))

### [The Great Communicator: Advantech Announces New PCI Bus Pentium® III Half-sized CPU Card with VGA/LAN/CFC2](#)



With high grade video, high grade audio, USB, COM ports, Ethernet capability, and even infrared, this half-sized CPU card is the Great Communicator. The PCI-6870 is Advantech's newest, high-performance, PCI-based solution. This half-sized CPU card offers all the advantages of the PCI bus standard. ([read more....](#))

## Announcements

### [SOM-4470F-L0A1 Phase out & SOM-4470F-L4A1 Phase in](#)



Due to the phase out of the SMI 721/8M VGA/LCD chip, the SOM-4470FL0A1 CPU module boards are scheduled to phase out. The last-buy date will be July 30th, 2002. In order to support designs depending on the SOM-4470 series, the SOM-4470F-L4A1 will effectively replace the SOM-4470F-L0A1. ([read more...](#))

## Product Update

### [New revision for PCA-6740](#)

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The PCA-6740 has been updated for even better performance. The fit between the PCB and the bracket has been improved. Include full RS-485 functionality, including autoflow. The now features DSTN color LCD support and DSTN mono LCD support. ([read more....](#))

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## Marketing

### *[ECG Vol.2002 Solution Guide is coming](#)*



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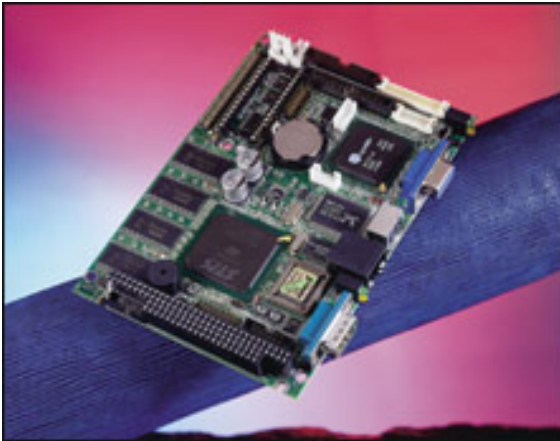
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### Advantech Introduces 3.5" Single Board Computer with Low-Power STPC Elite Processor



The PCM-9340 is Advantech's new 3.5" Biscuit single board computer with an on-board, embedded, low power STPC Elite 133 MHz processor. Other on-board features include 32 MB system memory, a VGA/LCD controller with 36-bit LCD TFT display and 10/100 Mbps PCI Ethernet interface. A PC/104 expansion connector is provided. Optional SSD support for DOC 2000,

62-level watchdog timer and jumperless on-line setup, and an optional PCI audio function are also included.

#### ***Easy Upgrade and Fanless Solution***

With this board, system engineers are able to upgrade their 386-based systems to 486 level or from a 486 system using EDO RAM to SDRAM for more stable memory supply without worries.

There are several advantages of this memory module change: the on-board DRAM can save the hassle to source and install memory module due to market price fluctuation and compatibility issues. In addition, it enhances the stability because DRAM is soldered on board, and some applications require minimizing the number of removable parts. It also eases the configuration and installation process because there is no need to set any jumpers for speed or voltage differences between various CPUs.

In addition to ease of configuration, the STPC Elite 133 MHz low-power CPU has been specially designed to work well in environments with temperatures of up to 60°C without need of a fan. Eliminating the CPU fan from a system significantly increases both MTBF and application possibilities.

#### **Multiple COM Ports for Wider Connectivity**

The PCM-9340 integrates 4 COM ports with shared IRQ function. This offers system integrators more flexibility to develop ideal solutions to incorporate more devices or peripherals, such as text-mode LCD panels, touchscreens, thermal printers, etc.

### Availability

Because the supply of AMD DX5-133s will be terminated by the end of June this year, the PCM-9340 has been developed to replace the current 3.5" AMD DX5-133 SBC market with equivalent computing capability, thus providing continuous support for customers who require a compact, cost-effective computing solution. The PCM-9340 is available now. Please contact an Advantech sales representative or distributor in your region for further product and price details.



### Specifications

- **CPU:** Embedded low power STPC Elite 133 MHz processor, fanless operation
- **BIOS:** 2 Mbit Flash BIOS, supports Plug & Play, APM
- **Chipset:** STPC Elite 133 (on-chip)
- **System memory:** On-board 32 MB SDRAM and one optional SDRAM SODIMM socket, up to 64 MB
- **PCI IDE interface:** One Enhanced IDE interface that supports 2 IDE devices PIO mode 3,4 with bus mastering up to 14 MB/sec.
- **Floppy disk drive interface:** Supports up to two FDDs (360 KB/1.2 MB/720 KB/1.44 MB/2.88 MB)
- **Parallel port:** One parallel port, supports EPP/ECP
- **IR port:** One 115 kbps IrDA compliant serial infrared
- **Serial ports:** 4 serial ports: COM1, 3, 4 (RS-232), COM2 (RS-232/422/485) RS-485 supports auto flow control
- **COM ports share IRQ:** 4 COM ports can share one IRQ under Windows 98, Windows NT, and Windows 2000
- **Watchdog timer:** 62-level timer interval, setup by software or jumperless selection, generates system reset or IRQ11 (standard)
- **VGA Chipset:** SMI LynxEM+ 712
- **Display memory:** 2 MB on the chip
- **Display type:** Simultaneous support for CRT and 36-bit TFT LCD display (supports 3.3 V LCD) Supports 3, 9,12,18, 24, 36-bit TFT and 16 or 24-bit DSTN Panel
- **Ethernet interface:** Supports IEEE 802.3u, 10/100 Mbps. Ethernet, RTL8139
- **Audio interface (optional):** Supports PCI Interface, Mic in, Line in, CD Audio in, Line out, Speaker out
- **Power requirements:** Maximum: 5.0 V @ 2 A, typical: +5.0 V @ 1.62 A
- **Operating temperature:** 0 ~ 60°C (32 ~ 140°F)
- **Operating humidity:** 0% ~ 90% relative humidity, non-condensing
- **Size:** 145 mm x 102 mm (5.7" x 4.0")
- **Weight:** 0.23 Kg (0.5 lb)

### For More Information

Check out the complete product and ordering information on Advantech's website <http://www.advantech.com/products>, or contact your nearest Advantech sales representative.

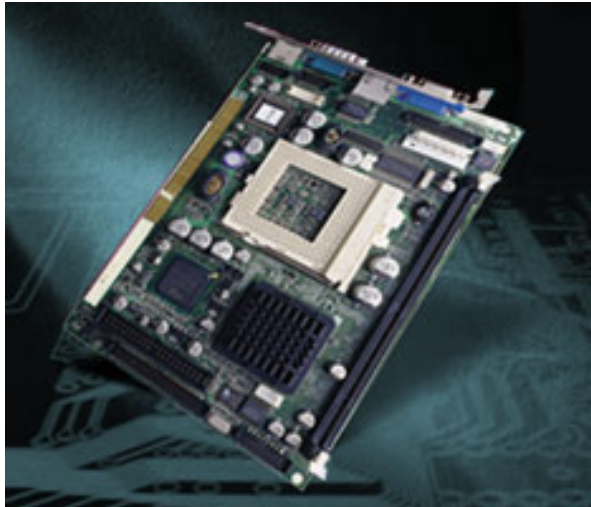
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### *The Great Communicator: Advantech Announces New PCI Bus Pentium<sup>®</sup> III Half-sized CPU Card with VGA/LAN/CFC2*



With high grade video, high grade audio, USB, COM ports, Ethernet capability, and even infrared, this half-sized CPU card is the Great Communicator. The PCI-6870 is Advantech's newest, high-performance, PCI-based solution. This half-sized CPU card offers all the advantages of the PCI bus standard: notably 32-bit communications at 33 MHz as compared to the ISA bus standard of 8/16-bits at 8 MHz.

*High Speed PCI Bus Ideal for Communication Applications*

This enhanced performance makes the PCI-6870 especially attractive for communication applications. It provides system integrators with a simple expansion solution. For example, adding another Ethernet port or other high-speed communications card can be done easily on a PCI bus board.

### Full Functionality and Flexibility

The PCI-6870 supports both 0.13 micron and 0.18 micron socket 370 FCPGA Pentium<sup>®</sup> III/Celeron<sup>™</sup> processors. Using the Intel 815E chipset, it can support a Pentium<sup>®</sup> III/Celeron<sup>™</sup> CPU up to 1.26/1.2 GHz respectively. Its DIMM socket supports system memory up to 512 MB. The PCI-6870 uses the VGA controller in the 815E chipset and supports Direct AGP. The VGA memory is UMA shared memory and can be further upgraded to 4 MB with an optional expansion module. There are two serial ports, two USB ports, a 10/100 Mbps Ethernet interface as well as SIR IrDA compliant infrared support. Its full functionality and well-integrated I/O enable the PCI-6870 as a high performance computing solution.

### Optional Video Expansion Module

Tel: 886-2-2792-78018

Fax: 886-2-2794-7304

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The PCI-6870 is designed with video enhancement in mind. Customers can add video functions such as: DVI output, S-video output, Video out, and more VRAM by adding an optional video expansion module.

## Availability

Volume ordering of the PCI-6870 is available now. Please contact your nearest Advantech sales representative or distributor for more product and price details.

## Specifications

- **CPU:** FCPGA Intel Pentium<sup>®</sup> III/Celeron<sup>™</sup> processor up to 1.26/1.2 GHz
- **BIOS:** 2 Mbit Flash BIOS, supports Plug & Play, APM 1.2
- **Chipset:** Intel<sup>®</sup> 815E PCI set, FSB 100/133 MHz
- **2<sup>nd</sup> level cache:** 128/256KB on Celeron/Pentium III<sup>™</sup> Processor
- **System memory:** One DIMM socket, supports PC100/133 up to 512MB
- **PCI IDE interface:** Two enhanced IDE interfaces, supporting 4 IDE devices Ultra DMA33 with bus mastering up to 33 MB/sec. Channel one supports Ultra DMA 33/66/100.
- **USB interface:** Two USB ports
- **Floppy disk drive interface:** Supports up to two FDDs (360 KB/1.2 MB/720 KB/1.44 MB/2.88 MB)
- **Parallel port:** One parallel port, supports EPP/ECP
- **IR port:** One 115 kbps IrDA compliant serial infrared
- **Serial ports:** 2 serial ports, COM1: RS-232, COM2: RS-232/422/485
- **Audio:** AC97 compliant, Mic in, Line in, Line out, Speaker out
- **Watchdog time:** 62 levels timer interval, setup by software, jumperless selection, generates hardware reset
- **Ethernet interface:** Supports 10/100Base-T Ethernet
- **Solid State Disk:** Supports CompactFlash Card, Type II
- **Standard Mode power consumption:** Typical 5V @ 6.68A (w/ PIII 850, 256 MB), max. 5V @ 8A
- **Operating temperature:** 0 ~ 60° C (32 ~ 140° F)
- **Size:** 185 mm x 122 mm (7.28" x 4.8")
- **Weight:** 0.26 kg (0.57 lb)

## Find Out More

To put the PCI-6870 to work for you, contact your nearest Advantech sales office, or email [ecgnews@advantech.com](mailto:ecgnews@advantech.com)

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Due to the phase out of the SMI 721/8M VGA/LCD chip, the SOM-4470F-L0A1 CPU module boards are scheduled to phase out. The last-buy date will be July 30th, 2002. After this date, availability will be based on remaining stock only. In order to support designs depending on the SOM-4470 series, the SOM-4470F-L4A1 will effectively replace the SOM-4470F-L0A1.

Contact <http://www.advantech.com/epc> for more information on this ETX CPU module board or any other Embedded PC products. You can also contact your local Advantech representative to find out more.

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## Product Update

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### *New revision for [PCA-6740](#)*

The PCA-6740 has been updated for even better performance.

1. The fit between the PCB and the bracket has been improved.
2. The PCA-6740 now features DSTN color LCD support and DSTN mono LCD support.
3. The PCA-6740 now includes full RS-485 functionality, including autoflow.

### Ordering Information

- PCA-6740F-0CA2: STPC Elite 133 half-sized CPU card with 32MB SDRAM, VGA/LCD/LAN/DOC and PC/104
- PCA-6740L-0CA2: STPC Elite 133 half-sized CPU card with 32MB SDRAM, VGA/LCD/DOC



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### *Ordering Information*

**1. A Version - P/N: 2011620020**

With Advantech logo and worldwide contact information

**2. B Version - P/N: 2011620021**

With Advantech logo but no contact information"

**3.C Version - With customer's company logo and contact information**

### ECG Solution Guide, Vol.2002

Version	Version A Version B	Version C: T P/N will be assigned Min. Q'ty: 1,000 copies
Price	US\$1.50	US\$2.00
Pages	186	186
Dimension ( W ) x ( H )	215 x 280 mm	215 x 280 mm
Weight ( Estimated )	510 g	510 g
Packing ( Estimated )	30 pcs. / box	30 pcs. / box

### *Contact us for more Information*

E-mail us at [ecgnews@advantech.com.tw](mailto:ecgnews@advantech.com.tw) today, if you have any questions or comments

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