

Our New Look



The Embedded PC World Online is now the Embedded Computer World Online. The new Embedded Computer World Online will include articles that formerly would have appeared in the Embedded PC World

and those that would have appeared in the erstwhile Web Appliance Link. Publication schedule will remain similar to that of the Embedded PC World Online.

Prime News

[Advantech Announces New, Low Power, Fanless, 3.5" SBC with ATA100](#)



Advantech is proud to announce the PCM-9372, its new 3.5" SBC offering. Adopting the embedded low power VIA Eden processor, this board can operate without a fan at temperatures up to 60° C (140° F) and typically consumes under 12 Watts while

supporting numerous peripherals. ([read more....](#))

Products

[Advantech Augments MLAN Series for Wireless Solutions](#)



Advantech MLAN series offers the perfect solutions for providing connectivity to difficult locations. Wireless connections provide the ultimate flexibility in reconfiguring your network without incurring additional cabling costs.([read more....](#))

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Recent News

Prime News

- [Advantech Introduces New SOM-4451](#)

Announcement

- [PCM-5820 Now Supports Windows CE .NET](#)
- [New Heatsink for SOM-4450 Series](#)

Product Update

- [PCM-9572F-L8A1 Phase out](#)

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Application Story

Entertainment Self-Ticketing Kiosk



The strength of Compar's customized Omni Kiosk combined with the flexible connectivity of Advantech's PCM-5825, offered the ideal embedded computing solution for one of Canada's leading Entertainment Self-Ticketing System Developers.. ... [\(read more....\)](#)

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Prime News

Advantech Announces New, Low Power, Fanless, 3.5" SBC with ATA100



component side

solder side

Advantech is proud to announce the PCM-9372, its new 3.5" SBC offering. Adopting the embedded low power VIA Eden processor, this board can operate without a fan at temperatures up to 60° C (140° F) and typically consumes under 12 Watts while supporting numerous peripherals. Two EIDE devices and two FDDs are supported, with primary IDE capacity a plentiful ATA100.

The PCM-9372 uses the VIA Twister chipset with Integrated Savage4 2D/3D/Video Accelerator which supports 4X AGP VGA/LCD interface, DVD playback and up to 32 MB frame buffer using system memory. The board supports 3D audio and complies with the AC97 standard. A PCI Ethernet interface, and 2-channel LVDS interface are also included. The PCM-9372 design is based on the 3.5" SBC form factor, and supports the PC/104 interface for ISA module upgrades. Other on-board features include an LPT, 2 USBs, and 2 serial ports: 1 RS-232, and 1 RS-232/422/485. The SSD solution supports CompactFlash™ cards Type I and Type II.

Options

Other News

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Announcement

- [New MLAN Series](#)

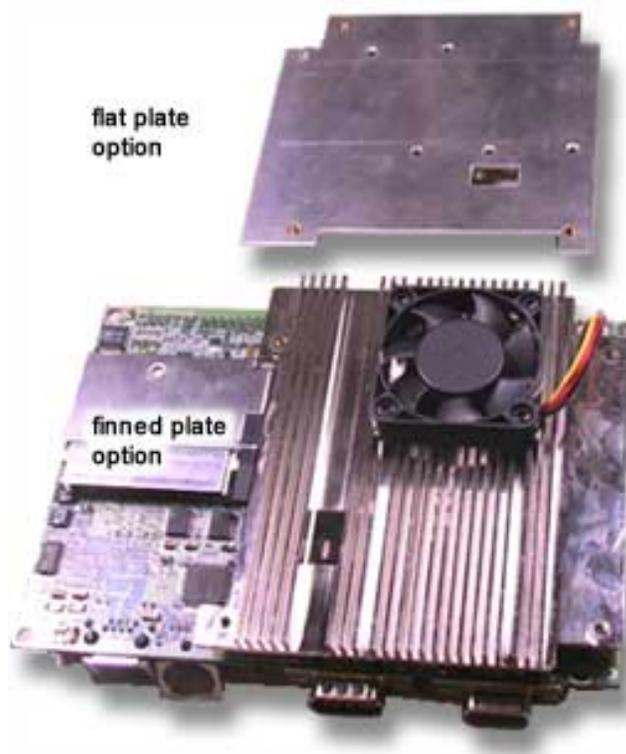
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Heatsink options for the "solder side" include a flat plate, or a finned plate with or without fan. (See picture.) Some designers may choose to go with a specially designed chassis that takes the place of a heatsink.



The board is effective for use as an embedded controller, through its ability to add additional custom control cards to its fast PC/104 socket. The PCM-9372's powerful, fanless processor choices and solid system chipset make it a perfect core technology for controllers, medical equipment, kiosks, and other long life applications.

Features

Embedded low power VIA Eden 400/667/800 MHz processor
Fanless operation at 60°C (for 400MHz and 667MHz models)
133MHz FSB and 4X AGP graphics for high performance applications
ATA100 on primary EIDE

Ordering Information

Samples available now; full production at the end of October.

Single Board Computers at Your Service

To find out how to put the PCM-9372 to work for you, visit our website at www.advantech.com or email:

ecgnews@advantech.com.tw

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Announcement

Advantech Augments MLAN Series for Wireless Solutions

Advantech MLAN series offers the perfect solutions for providing connectivity to difficult locations. It allows you to scale your network creatively, without being confined to cable reach. Wireless connections also provide the ultimate flexibility in reconfiguring your network without incurring additional cabling costs. The MLAN series products are fully compatible with the high-rate IEEE 802.11b wireless LAN standard. They deliver 11 Mbps over-the-air for faster downloads, easier browsing, quicker file transfers and support for more wireless users. Utilizing Direct Sequence Spread Spectrum (DSSS) technology in the 2.4 GHz unlicensed band, mobile users can connect to the corporate network wherever their work takes them. The Advantech M LAN series now offers two different categories: adapter and access point.



MLAN-3325: 802.11b Wireless LAN Card

The MLAN-3325 Wireless PCMCIA (Type II) LAN card is fully compliant with 2.4 GHz Direct Sequence Spread Spectrum (DSSS) 802.11b 11M and interoperable with Wi-Fi certified products. A step above other

PCMCIA products, hardware enabling 64/128-bit Wired Equivalent Privacy (WEP) data encryption is fully supported. A detachable antenna version is available, specifically designed for SI applications.

The MLAN-3325 delivers an optimal combination of range, throughput, low power consumption and interference immunity. Fully compliant with the IEEE 802.11b, 11Mbps wireless LAN standard, the MLAN-3325 features lots of powerful functions, such as: various network support, self-diagnostic configuration utility and Web management. It's the perfect solution for laptop PC users and

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all other portable devices with standard Type II PCMCIA slots.

Ordering Information:

- MLAN-3325A (for N. America)
- MLAN-3325E (for Europe)
- MLAN-3325J (for Japan)



MLAN-1251: 802.11b Long Range Wireless LAN Card

The MLAN-1251 is a long range, high power wireless LAN card that provides excellent performance. Much better than

typical wireless LAN cards, the MLAN-1251 covers up to 450 meters in open space, with stronger signal strength and link quality. Fully compliant with the IEEE 802.11b, 11 Mbps wireless LAN standard, the MLAN-1251 features many functions such as 64/128-bit WEP data encryption and configuration utility.

This long-range wireless LAN card lets users connect laptops or PDAs to the Internet, intranet or any other network source-from anywhere near their office or home. This plug-and-play card delivers a fast and secure 11 Mbps connection and is an attractive, functional alternative to traditional wired networks.

Ordering Information:

- MLAN-1251A (for N. America)
- MLAN-1251E (for Europe)



MLAN-2251: 802.11b Wireless Access Point

The MLAN-2251 Wireless Access Point is designed for both business and home users, with a maximum operating range of 450 meters in open space. The device

provides an excellent wireless solution for building a LAN and sharing resources with or without wire, and is easy to configure and operate even for non-technical users. It also has a built-in printer port, so users don't need to dedicate a personal computer as print server. The MLAN-2251 enables desktop wireless USB adapter users and laptop wireless PC card users enjoy seamless, secure wireless network connections and long-range wireless coverage in

one area.

Ordering Information:

- MLAN-2251A (for N. America)
- MLAN-2251E (for Europe)

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Application Story

Entertainment Self-Ticketing Kiosk

The strength of Compar's customized Omni Kiosk combined with the flexible connectivity of Advantech's PCM-5825, and its continued commitment to next generation products through ongoing R&D, offered the ideal embedded computing solution for one of Canada's leading Entertainment Self-Ticketing System Developers.



Advantech product used in this application: PCM-5825 SBC with NS Geode CPU, 4COMs, VGA/LCD, Ethernet & Audio Interface

Location: Canada

Customer: [Compar Corporation](#)

Background: One of Canada's leading developers of self-ticketing systems for the entertainment industry approached Compar Corporation with a requirement for a flexible and reliable solution to develop their next generation kiosks. This customer, with a 24-year history in the industry, found Compar's Omni Kiosk, utilizing Advantech's embedded computing engine, highly attractive.

Application Details: Due to the nature of theatre self-ticketing kiosk applications, the customer's key criteria for the project were reliability, serviceability, flexible I/O capability and increased processing speed. Reliability and serviceability are always important, but extremely so in this case because of the high traffic, public use and revenue generating aspects of the system. From the end-customer's perspective, down time equals poor service and ultimately lost revenue. The project also required the flexible I/O

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connectivity capability necessary to handle a number of input devices including a printer, debit pad, card reader, and touchscreen. The increased processing speed was a must, as the older generation product used a Pentium 133MHz processor, far too slow to effectively handle the more demanding software application features such as video clips, concession sales, reserved seating, advanced booking, loyalty program incorporation, and theatre management systems.

System Integration: Early discussions regarding the SBC project incorporated Compar's custom CPU enclosure with peripherals, and focused on Advantech's PCM-5820. However, as the project evolved towards the final stages, the focus quickly shifted with the introduction of Advantech's PCM-5825 in February of this year. It was because of the Advantech commitment to next generation products through ongoing R&D that the PCM-5825 became the ideal answer to the needs of this particular application, and the timing couldn't have been better. With 4 COM ports, the PCM-5825 addressed the added I/O requirement, not to mention that in the world of industrial PCs, COM ports are the channel of choice for text displays, touchscreens and bar code readers. This board is a feature-packed, 586-level, hassle-free solution for space critical applications. The result for Compar and Advantech was a satisfied customer, who got a product more advanced than they had envisioned when the project began. This will allow them to leapfrog their competition, and gain market share. Kiosk deployment began in April at AMC Theatres throughout Canada.

Thank you, Advantech!

Let Advantech help you with your customized needs. Contact your local Advantech representative or go to our website at <http://www.advantech.com> for contact, ordering information or to find out more. Contact Advantech today!

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