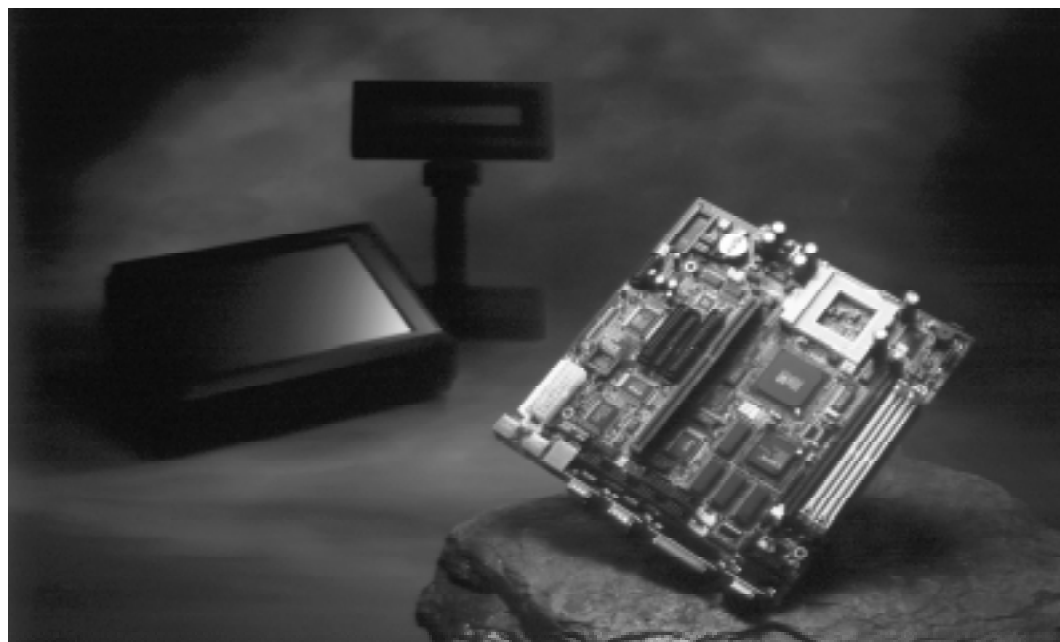


WORLD

Embedded PCs for Automation

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NEW SUPER MULTIMEDIA POS HAS FAST ETHERNET AND LVDS



Advantech's New POS-562 Super Multimedia POS Board

Advantech is proud to introduce its most powerful POS control board, the POS-562. It will be offered together with the older POS-560, with the POS-560 acting as the Pentium® entry level board for POS and the POS-562 aimed at high-end multimedia markets.

High End Multimedia Market

With today's advancements in software and hardware, many new point-of-information (POI), kiosk and POS stations

are adopting higher resolution displays (XGA) and quality sound for more powerful presentations. Since many new multimedia applications require the ability to send and receive high volumes of data through an LAN, high bandwidth/speed networking capabilities are also increasingly popular. This is the target market for the POS-562.

Enhanced Multimedia POS Board

To start with, the POS-562 can accept processors up to Pentium® MMX 233 MHz. It's 100Base-T Ethernet allows for fast com-

See POS on page 2

WHAT'S INSIDE

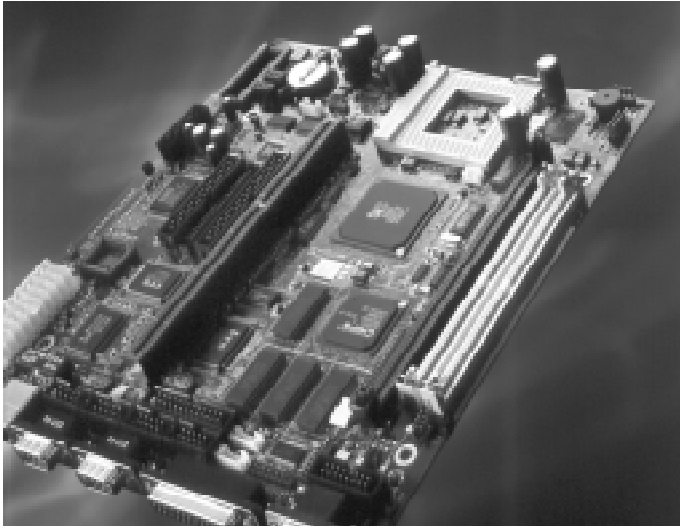
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ISO-14001
Certified

ISO-9001
Certified

munication and its 16-bit Sound Blaster Pro compatible audio enables one to include high quality sound in one's applications. Using the new C&T 65555 chipset, this POS board supports up to 36-bit XGA high video resolution quality. The POS-562 comes with 2 MB of video DRAM on-board, or an optional 4 MB. Lastly, this POS supports LVDS for Long Distance LCD Support. This is



a hot new standard that allows the user to extend the distance between the computer system and the actual display.

Basic Features

Like its predecessor (the POS-560), the POS-562 also includes such standard on-board features as 4 serial ports with power, 2 parallel ports, 1 DIMM and 2 SIMM sockets, 2 USB ports and a socket for a DOC® 2000 Flash disk (up to 72 MB). The POS-562 uses the same LPX form factor as the POS-560, meaning that about 50% of the I/O ports are ready to be connected from the rear. This greatly simplifies the process of system integration for OEMs. Also, since all three of our POS boards (POS-460, POS-560 and POS-562) have the same mounting dimensions, they can all easily fit into Advantech's new LPX chassis, the POS-810 (see the following the article for more information). Other chassis options include the POS-808 and the POS-815.

Now Accepting Orders

Some of our OEMs have already begun evaluating pilot run samples. Now, though, since the POS-562 is officially available, Advantech is ready to start formally accepting orders. To order, or to inquire about more information about the POS-562, please consult your Advantech sales representative.

New POS Case is a Dream Come True

Advantech's new POS case, the POS-810, is a standard LPX chassis with dimensions of 360 x 90 x 420 mm. It can easily accommodate Advantech's POS board series, namely, the POS-460, the POS-560 and the brand new POS-562 (see cover story).

Styled for the Future

The front panel of the POS-810 has a much more modern look to it. It also has room for both a 3½" and a 5¼" drive bay, which enables CD-ROM expansion. This exceptional expandability and quality of the POS-810 will surely ensure the future of this product.

Expansion Friendly

There are several reasons why the POS-810 is expansion friendly. First, a PCI/ISA riser card is provided with the case. This riser card comes with two expansion slots, which can be used as either two PCI-type slots or as 1 PCI-type and 1 ISA-type slots.



POS-810

Easy to Certify

The POS-810 comes with a 100-watt power supply which is FCC and CE approved. Also, the case itself has advanced EMI shielding features built in (such as metal plating over unused drive bays). This should make FCC and EC certification for one's complete system much easier for the customer to achieve. Contact your sales representative today for more information and pricing details.

New SSD Solution for Embedded Systems Soon Available

Advantech's new CompactFlash Memory Card supports a True IDE Mode that is electrically compatible with an IDE disk drive. This means there are none of the driver problems common with some of the other SSD solutions. Advantech's CompactFlash Memory Cards provide up to 40 MB of formatted storage capacity, and with the PCMCIA Adapter, can be used in any system that has a PCMCIA Type II or Type III socket.



CompactFlash Memory Card Block Diagram

Extra Features

The CompactFlash Memory Card Series uses SanDisk Flash memory chips which were designed by SanDisk specifically for use in mass storage applications. In addition to the mass storage-specific Flash memory chips, the CompactFlash Memory Cards include an on-card intelligent controller that provides a high level interface to the host computer to issue commands to the memory card to read or write blocks of memory. A block of memory consists of 512 bytes of data and is protected by a powerful Error Correcting Code (ECC).

A Range of Combinations

Advantech CompactFlash Memory Cards are offered in a variety of capacities up to 40 MB. The host system can support as many cards as there are CompactFlash and Type II or Type III PCMCIA card slots. CompactFlash Memory Cards require the PCMCIA Adapter to be used in a PCMCIA Type II or Type III socket.

Arriving Soon

Advantech's CompactFlash Cards and PCMCIA Adapters will be available by July 1998. These, in turn, can be used in conjunction with Advantech's currently available PCD-1200A and PCA-6351.

Current CE Marking Status for EPC Products

Below is the latest listing of Advantech EPC's CE certified products. All new products will be submitted for CE and FCC Class A certification. Applying for FCC Class B certification will be initiated by customer request.

Model	CE Status	Model	CE Status
PCA-6134P	OK	PCM-3335	OK
PCA-6135	OK	PCM-3520	ready by June
PCA-6135L	OK	PCM-3523	OK
PCA-6143	OK	PCM-3810A	ready by June
PCA-6143P	OK	PCM-3820	OK
PCA-6144S	OK	PCM-3820C	OK
PCA-6144V	OK	PCM-3835	OK
PCA-6144B	OK	PCM-3840	OK
PCA-6145L	OK	PCM-3865	OK
PCA-6151	OK	PCM-4823	ready by 5/10
PCA-6153	OK	PCM-4823L	ready by 5/10
PCD-1230	OK	PCM-4825	ready by 5/10
PCD-1230A	ready by June	PCM-4825L	ready by 5/10
PCD-892	ready by June	PCM-4862	OK
PCD-894A	OK	PCM-4865	OK
PCD-895A	OK	PCM-5860	OK
PCD-896	OK	PCM-5862	OK
PCD-897	OK	PCM-5862L	OK
PCM-3110A	OK	POS-460	OK
PCM-3110B	OK	POS-460-A2	OK
PCM-3112	OK	POS-560	OK

CE Certification Table

It is Advantech's policy to strive to satisfy all of its customers' needs where possible. Please feel free to contact your local representative about any of your problems or comments.

POS for Golf and for Dinner

A European systems integrator has designed an ingenious use for Advantech's POS boards--as an information input and retrieval system at a golf course. Each patron is issued a hand-held, wireless device which he or she can use for remote data access, check-in/check-out, communication, reservations, etc. POS terminals are also



scattered around the country club and restaurant for more detailed and graphical information retrieval, such as browsing for and ordering food at the country club's restaurant.

Why Advantech

This company chose Advantech's POS-460 486-based control board as the heart of its many user terminals. For the main server, Advantech's POS-560 Pentium-based control board was chosen. Both of these boards have 10Base-T Ethernet, DiskOnChip® 2000 Flash memory sockets and LCD/VGA controllers, among other important features. Another significant reason why Advantech was chosen was because Advantech provided help with LCD integration.

Other Application Examples

Besides using POS systems at golf courses or restaurants, they are also very useful in such places as banks, train and bus stations, airports, schools and colleges, museums, ticket machines, information kiosks, etc. These are just some of the public uses of this kind of device. There are countless other uses in offices, factories and at home. The possibilities are endless.

Contact Advantech

If any of the above examples resemble one of your application ideas, contact Advantech, and we can help you turn your ideas into reality.

Advantech Weighs in Big

Never before has Advantech's small, palm-sized Biscuit PC weighed in so big. Actually, its weight (only 0.32 kg) was less important than its size (203 x 146 mm) and its all-on-board features when it came time for an Australian company to pick the computational heart of its new automatic supermarket food scale.

User-friendly Application

This application helps customers weigh their fruit and vegetables. It then prints out the name of the produce, a unit number and barcode, and the price. It can also supply information about nutrition, recipes, or other sales going on in the supermarket (to encourage customers to buy more). Interaction is made possible by use of a touchscreen. This is a good example of how Advantech contributes to improve living automation.

Why Advantech

Advantech's PCM-5862 Pentium®-processor based Biscuit PC was chosen over those of its competitors for many reasons. First was its compactness and reliability. On a palm-sized board, Advantech was able to fit a Pentium®-class processor and support chips, Ethernet, audio, LCD/touchscreen control chips, and D/I/O through the parallel port as well. Second, Advantech was especially helpful with technical support (both their Ethernet and vertical-oriented screen needed special BIOS adjustments). Third, customized modification of their connectors was performed, and lastly, Advantech's brand name recognition meant that it would be a reliable and trustworthy partner.

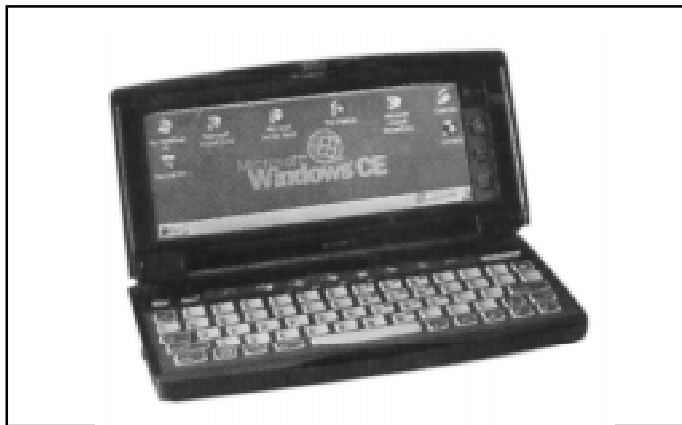


See Your Local Distributor

Advantech is happy to help interested customers with application ideas and technical service during research and development. Call us today to see how we can help.

Windows CE for Advantech's Products

Microsoft Corporation's Windows CE is a simpler, more compact version of its popular desktop Windows software. Currently, it is used mainly in handheld computing devices, but the trend is for it to be used more and more in other embedded applications, such as industrial computers or intelligent appliances. This is an important issue in the embedded PC field. Since Advantech is one of the leading suppliers of embedded PC products, it will carefully monitor developments with Windows CE and strive to provide better solutions for its customers.



Advantech's Boards Certified by Annasoft

In order to provide a preliminary solution, Advantech has cooperated with Annasoft Systems. Annasoft is a company that claims to be the first to distribute and integrate Windows CE for embedded PC systems by including some basic, but necessary, drivers and without needing to install DOS. Annasoft has recently certified four Advantech products as capable of using Annasoft's Windows CE solution. Those presently certified are the PCM-4862, POS-560, POS-460 and PCA-6145L, with more soon to come.

Customized Support

If your application needs additional, custom support or drivers, any Microsoft certified system integrator could assist you (such as Annasoft--see their internet site at <http://www.annasoft.com>). Another option would be to buy a development kit from Microsoft and do your own customization. Advantech, as always, will continue to try to supply a total solution for all its customers.

Advantech's 15th Year Anniversary Celebration and Conference

Advantech's 15th year anniversary is rapidly approaching, and to honor this occasion, it will hold a three-day conference at the Ta Shee Resort near Taipei on July 14 through 16. The official name of the conference is the "1998 Advantech Global Business Development Conference."



1998 Advantech Global Business Development Conference

Attendees

Invitations have been sent out around the world to Advantech's overseas representatives and distributors. Several prominent speakers have been invited, as well as the international media. This will be the first time that all of Advantech's divisions will hold a joint conference.

Schedule

The three days of this conference will be filled with activities. During the morning of the first day, an opening ceremony and speech will be delivered, followed by an afternoon of separate meetings by each of Advantech's divisions (Industrial Automation, Industrial Computers and Embedded PCs). Both the morning and afternoon of the second and third days will also be filled with separate division meetings. These meetings will cover such topics as the mission and vision for the year 2000 and beyond for each of the divisions, new product and application demonstrations, and the sharing of application examples and difficulties. A cocktail party and farewell dinner will also be held during this conference. We all look forward to this conference being productive and enjoyable for everyone.

CeBit '98 Was a Great Success

This year's CeBit show in Hannover, Germany (March 19-25) was a resounding success for Advantech. Advantech's booth was specially designed and centered around the Panel PC, a single unit, touchscreen computing device which Advantech believes will revolutionize lifestyle computing. On March 23, the Embedded PC division of Advantech held a special con-



ference to introduce some of its new products, such as the PCM-4823/25. Individuals from over 37 countries attended—a dramatic increase over last year's 15 participants. During this EPC conference, 13 of the participants agreed to take part in a sales contest and new product promotion program. With this contest, participating distributors pledged to meet a specific quota of sales in a certain time period. If they succeed, Advantech will offer them a special award program.

PCD-1230A 8 MB Capacity Now Available

Advantech's PCD-1230A IDE Flash Disk Module has been enhanced so that it now has an 8 MB capacity. This extra capacity opens up a range of additional application possibilities. Contact your nearest Advantech sales representative for more information.

PCM-5862L Replaces PCM-5860

Advantech's PCM-5860 Biscuit PC has been phased, but for about the same low price, Advantech's more advanced Pentium-level Biscuit PC, the PCM-5862L, is an ideal substitute. Besides supporting all of the capabilities of the PCM-5860, the PCM-5862L also supports Pentium MMX. The PCM-5862, on the other hand, has on-board audio as well, and its price is only a little higher.

Advantech Santa Clara, USA Office Set Up

During the past two years in the American single board computer market, Advantech has come to feel that there is a strong demand for Embedded



PCs to be used for living utomation purposes. Such various application areas include medical, POS, POI kiosks, entertainment, transporation, etc. To response to these needs, Advantech has decided to expand its Embedded PC and Panel PC organization in the United States, and has moved to a new location at Santa Clara, California. Contact information is as follows:

Advantech Technologies Inc.

1260 Memorex Drive, Santa Clara, CA 95050 U.S.A.

Tel: 1-408-982-1715 Fax: 1-408-982-1710

Product of the Year Award Won

Advantech's 3.5" Biscuit PC, the PCM-4822/24, has been selected "1997 Product of the Year" under the Embedded Boards category by EE Product News (Dec. 1997). The newest generation (PCM-4823/25) includes an on-board DX5-133 embedded processor, VGA/LCD capability, and a DOC Flash disk socket, with an option of on-board Ethernet or audio. Contact us for more details.

