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Prime News

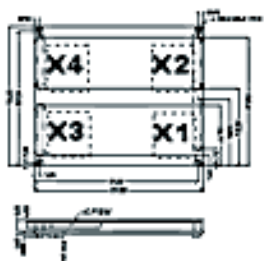
[Advantech Introduces New PCA-6772](#)



Not one, not two, but **three** RJ-45 LAN connectors enhance Advantech's new PCA-6772 ISA based half-sized SBC with CPU onboard. And, if you choose the Eden400 CPU, the PCA-6772 is fanless. ([read more....](#))

Announcement

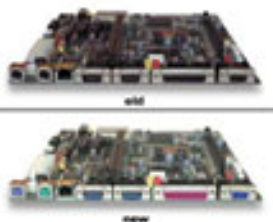
[Correction on SOM-ETX Connector Placement](#)



Although we do our best to be as accurate as possible, errors can occasionally slip through. One error in labeling ETX connectors was repeated in several publications. Please bear with us as we rectify the corrigenda in documentation.([read more....](#))

Product Update

[POS Products Adopt PC99 Color](#)



POS products will soon have a colorful new look, as PC99 connectors are slated to go into production on the entire POS line. The PC99 standard helps users distinguish external I/O connectors by color. Different connectors have different colors, so it's easy to see what any particular connector may be for. ... ([read more....](#))

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

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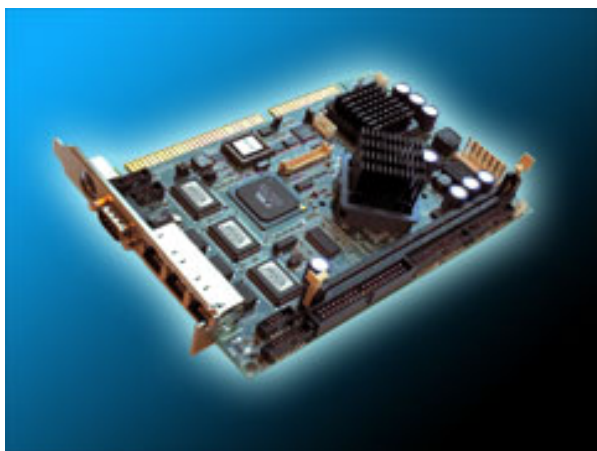
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Prime News

Advantech Introduces New PCA-6772



Well Connected

Not one, not two, but **three** RJ-45 LAN connectors enhance Advantech's new PCA-6772 ISA based half-sized SBC with CPU onboard. And, if you choose the Eden400 CPU, the PCA-6772 is fanless. This is perfect for modern gateway devices, VPNs, firewalls, or machine controllers.

The PCA-6772 features a VIA low power CPU: either Eden400 or Ezra800. The VIA Eden processor uses advanced 0.13 μ CMOS technology with 128KB L1 cache memory and 64KB L2 cache memory on die. This board with Eden400 CPU can operate without a fan at temperatures up to 60° C (140° F) and typically consumes under 14 Watts while supporting numerous peripherals. The PCA-6772 includes a 4X AGP controller, a PCI Ethernet interface, and 18-bit TTL interface.

Its design is based on the half-sized CPU card and supports ISA bus expansion. Other on-board features include an FDD, LPT, 2 USBs, and 2 serial ports. The SSD solution supports CompactFlash™ cards. With the optional PCM-231A-00A1, the PCA-6772 can support AC97 Audio.

This product uses a VIA Twister chip with Integrated Savage4 2D/3D/Video Accelerator and supports 4X AGP VGA/LCD interface and up to 32 MB frame buffer using system memory. The PCA-6772 supports 3 10/100Mbps Ethernet connections with onboard RJ-45 connectors.

Other News

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- [New PC99 Look for POS Product Line](#)

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Features

Embedded low power VIA Ezra 800MHz or Eden 400 MHz processor
ISA bus half-sized CPU card
Fanless operation at 60°C. (PCA-6772F-J3A1, PCA-6772F-J1A1)
All 3 onboard RJ-45 connectors support 10/100Base-T Ethernet (PCA-6772F-Q3A1, PCA-6772F-J3A1)
4X AGP graphics for high performance applications
FSB 133MHz (Ezra800), FSB 100MHz (Eden400)

Specifications

CPU: Embedded VIA low power Ezra/Eden processor
Ezra-800 (PCA-6772F-Q3A1, PCA-6772F-Q1A1)
Eden-400 (PCA-6772F-J3A1, PCA-6772F-J1A1)
BIOS: Award 256 KB Flash memory
System memory: One DIMM socket accepts 64 MB up to 512 MB SDRAM
2nd cache memory: 64KB on the Ezra/Eden processor
Enhanced IDE interface: One channel supports up to two EIDE devices. BIOS auto-detect, PIO Mode 3 or Mode 4, up to UDMA66/100 mode.
FDD interface: Supports up to two FDDs
Serial ports: Two serial RS-232 ports
Parallel port: Parallel port supports SPP/EPP/ECP mode
Keyboard/mouse connector: Supports standard PC/AT keyboard and a PS/2 mouse
Power management: Supports power saving modes including Normal/Standby/Suspend modes. APM 1.2 compliant
Watchdog timer: 62 level timer intervals
USB: Two universal serial bus ports
Solid State Disk
Supports one 50-pin socket for CFC type I/II
VGA/LCD Interface
Chipset: VIA Twister chip with integrated Savage4 2D/ 3D/Video Accelerator
Frame buffer: Supports 8/16/32MB frame buffer with system memory
Interface: 4X AGP VGA/LCD interface, Support for 9, 12, 15, 18 bit TFT
Display modes: CRT Modes: 1280 x 1024@16bpp (60Hz), 1024 x 768@16bpp (85Hz); LCD/Simultaneous Modes: 800 x 600@18bpp (60Hz). 640 x 480@18bpp (60Hz)

Ethernet interface

Chipset: RTL 8139C Plus

Ethernet interface: IEEE 802.3u 100BASE-T Fast Ethernet compatible

I/O address switchless setting

Built-in boot ROM

Mechanical and Environmental

Dimensions: (L x W): 185 x 122 mm(7.28" x 4.80")

Operating temperature: 0 ~ 60° C

Weight: 0.27 kg (weight of total package)

Power requirements:

Power supply voltage: +5 V, +12V ±5%

Max: 4.5A @ +5V

Typical:3.3 A @ +5V (with 256 MB DRAM, Ezra 800 MHz CPU)

2.78A @ +5V (with 256 MB DRAM, Eden 400 MHz CPU)

Ordering Information

PCA-6772F-Q3A1

Ezra 800 half-sized CPU card with VGA/LCD/CFC/3 Ethernet

PCA-6772F-Q1A1

ISA Ezra 800 half-sized CPU card with VGA/LCD/CFC/1 Ethernet

PCA-6772F-J3A1

ISA Eden 400 half-sized CPU card with VGA/LCD/CFC/3 Ethernet

PCA-6772F-J1A1

ISA Eden 400 half-sized CPU card with VGA/LCD/CFC/1 Ethernet

Accessories

1703200100

ATX power cable

PCM-231A-00A1

Audio module with Line-in, Line-out, mic

Contact Information

For more information about Advantech's PCA-6772, please contact your nearest Advantech representative, check our website at

<http://www.advantech.com.tw/epc> or send an e-mail to

PM.SOM@Advantech.com.tw

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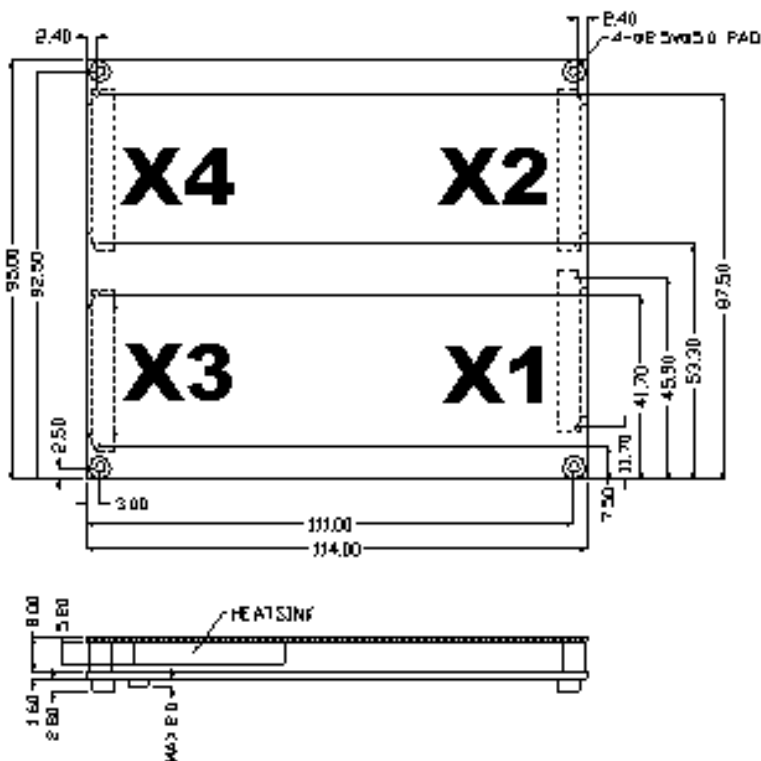
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Announcement

Correction on SOM-ETX Connector Placement

Although we do our best to be as accurate as possible, given the large volume of products, features, and specifications dealt with by our hard-working PMs, engineers, and tech writers, errors can occasionally slip through. One error in labeling ETX connectors was repeated in several publications. Please bear with us as we rectify the corrigenda in documentation for: SOM-4450, SOM-4470, SOM-DB4400, and SOM-ETX SPECIFICATIONS.

The label designations on the ETX connectors were incorrect. X3 and X4 labels had been transposed. Correct designations are below:



Other News

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Updated Documentation

New documentation, with new version numbers, has been prepared to reflect the changes, and has been posted

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old



new

POS products will soon have a colorful new look, as PC99 connectors are slated to go into production on the entire POS line. PC99 is a standard that, among other things, helps users distinguish external I/O connectors by color. Different connectors have different colors, so it's easy to see at a glance what any particular connector may be for. Also, the new, colorful connectors give a more current design feel to the equipment.

And, not incidentally, they are cost effective. Since these colored connectors are produced by the container load for consumption by major motherboard manufacturers, economies of scale come into play that work to Advantech's advantage, and of course, to the advantage of its customers as well. The upgrade to PC99 will have no effect on dimensions or functionality, and will not affect part or revision numbers.

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