

# PCA-6004 Full-sized SBC with VIA C3 CPU, VGA and Ethernet

## Packing List

Before you begin installing your card, please make sure that the following materials have been shipped:

- 1 PCA-6004 single board computer
- 1 FDD cable p/n: 1700340640
- 2 UDMA 66/100 HDD cables p/n: 1701400452
- 1 printer (parallel port) and COM port cable kit p/n: 1701260305
- 1 ivory cable for PS/2 keyboard and PS/2 mouse p/n: 1700060202
- 1 USB cable (optional) p/n: 1700100170
- This startup manual
- 1 driver CD-ROM with user's manual (in PDF format)
- Warranty certificate

If any of these items are missing or damaged, contact your distributor or sales representative immediately.

Note 1: For detailed contents of this product, please refer to the enclosed CD-ROM or disk (in PDF format).

Note 2: Acrobat Reader is acquired to view any PDF file. Acrobat Reader can be downloaded at: [www.adobe.com/Prodindex/acrobat/readstep.html](http://www.adobe.com/Prodindex/acrobat/readstep.html) (Acrobat is a trademark of Adobe.)

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com>

For technical support and service, please visit our support website at:

<http://service.advantech.com.tw/eservice/>

This manual is for the PCA-6004 series Rev. A1

Part No. 2002600411 2nd. Edition

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## Specifications

### Standard SBC Functions

- **CPU:** VIA C3 800 MHz low power CPU with 128 KB L1 and 64 KB L2 cache
- **BIOS:** Award 2 Mb Flash memory BIOS
- **System memory:** Two 168-pin DIMM sockets accepts up to 1 GB SDRAM
- **Enhanced IDE interface:** Supports up to four EIDE devices. BIOS auto-detect, PIO Mode 3 or Mode 4, UDMA 33/66/100 transfer
- **FDD interface:** Supports up to two FDDs
- **Serial ports:** Two serial RS-232 ports,
- **Parallel port:** One parallel port, supports SPP/EPP/ECP mode
- **Keyboard/mouse connector:** Supports a standard PS/2 keyboard and a PS/2 mouse
- **Power management:** Supports power saving modes including Normal/Standby/Suspend modes.
- **Watchdog timer:** 63 level timer intervals
- **USB:** Two Universal Serial Bus ports

### VGA/LCD Interface

- **VIA Controller:** Chipset integrated high performance VGA controller
- **Display memory:** Share system SDRAM up to 8 MBTV-out (optional)

### Ethernet interface

- **Chipset:** Realtek™ RTL8139 C
- **Ethernet interface:** PCI 10/100 Mbps Ethernet, IEEE 802.3U protocol compatible
- **Connection:** On-board RJ-45 connector

## Specifications (cont.)

### Mechanical and Environmental

- Dimensions (L x W): 338 x 122 mm
- Power supply voltage: +5 V, ± 12 V
- Power requirements: 3.14 A @ +5 V, 110mA @ + 12 V (typical, with 128 MB SDRAM)
- Operating temperature: 0 ~ 60° C
- Weight: 0.5 kg (weight of board)

### Jumpers and Connectors

The board has a number of jumpers that allow you to configure your system to suit your application.

The table below lists the function of each of the jumpers and connectors..

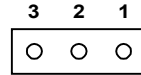
#### Jumpers

Label	Function
J1	CMOS clear
J2	Watchdog timer output

#### Connectors

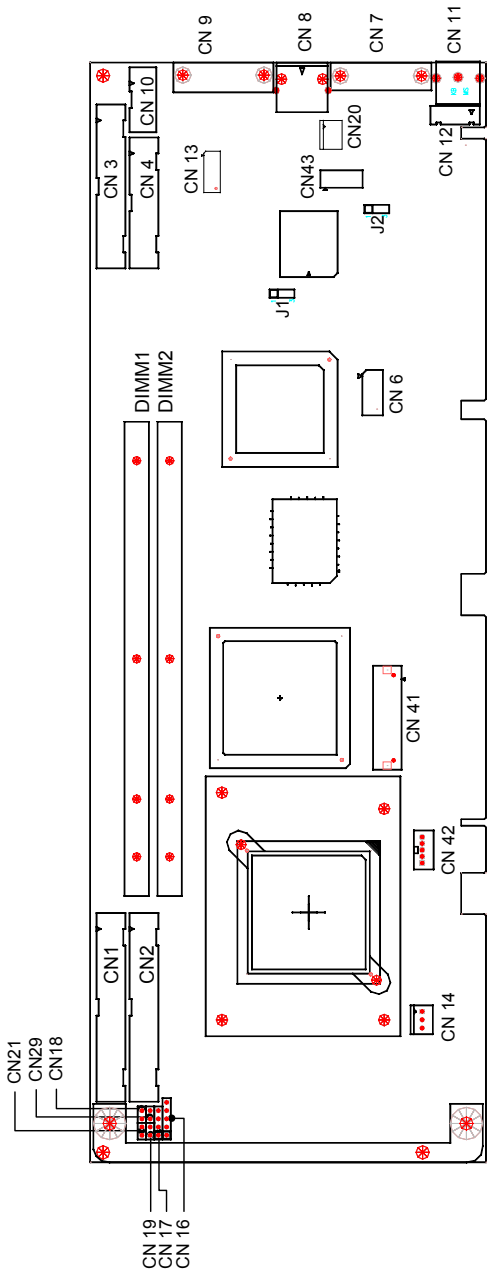
Label	Function
CN1	Primary IDE connector
CN2	Secondary IDE connector
CN3	Floppy drive connector
CN4	Parallel port
CN6	USB port
CN7	VGA connector
CN8	10/100 LAN connector
CN9	Serial port: COM1
CN10	Serial port: COM2
CN11	PS/2 keyboard and mouse
CN12	External keyboard connector
CN13	Infrared (IR) connector
CN14	CPU FAN connector
CN16	POWER LED
CN17	External speaker
CN18	Reset connector
CN19	HDD LED connector
CN20	ATX feature connector
CN21	ATX soft power switch
CN29	External SM bus connector
CN41	LCD flat panel connector
CN42	LCD flat panel inverter power connector
CN43	AC-97 Audio Interface

J1	CMOS clear function
Closed pins	Result
1-2	Keep CMOS data*
2-3	Clear CMOS



J2	Watchdog timer output
Closed pins	Result
1-2	IRQ11
2-3	System reset *

\* denotes default setting



PCA-6004 Locating connectors