PCA-6006 Socket 478 Pentium 4 SBC w/ VGA, Ethernet & HISA

Startup Manual

Packing List

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

 1 PCA-6006 socket 478 Pentium 4 processor-based single board computer

· 1 FDD cable p/n: 1700340640

 2 Ultra ATA 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 mouse (not available for PCA-6006E2-00A1) p/n: 1700060202

• 1 USB cable (optional) p/n: 1700100170

• 1 PCA-6006 startup manual

· CD disc and manual (in PDF format)

· Warranty certificate

Note 2:

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

Note 1: For detailed contents of the PCA-6006, please refer to the enclosed CD-ROM or disk (in PDF

format).

Acrobat Reader is required to view any PDF file. Acrobat Reader can be downloaded at: 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

http://www.advantech.com/nc

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

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

This manual is for the PCA-6006 series Rev. A1.

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Specifications

Standard SBC Functions

- CPU: Socket 478 for Pentium® 4/ Celeron™, FSB 400/ 533 MHz
- . BIOS: Award 4 Mb Flash memory BIOS
- Chipset: Intel 845GV
- System Memory: Two 184-pin DIMM sockets accepts up to 2 GB DDR (PC200/266)
- Enhanced IDE interface: Supports up to four EIDE devices. BIOS auto-detect, PIO Mode 4, Ultra ATA 100/ 66/33 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 one standard PS/2 keyboard and mouse
- · Watchdog timer: 255 level timer intervals
- USB (2.0): Maximum up to six Universal Serial Bus ports

VGA/LCD Interface

- Chipset: Intel 845GV integrated
- Interface: Intel® Extreme Graphics Architecture

Ethernet Interface

- Chipset: Intel 82562
- Ethernet interface: PCI 10/100 Mbps Ethernet
- · Connection: On-board RJ-45 connector x 1

Mechanical and Environmental

- Dimensions (L x W): 338 x 122 mm
- Power supply voltage: +5 V ± 12 V
- Power requirements: Typical: +5V: 8.7A , +12V: 310mA (Intel Pentium® 4 2GHz, 256MB DDR 266
- Operating temperature: 0 ~ 60x C (depending on
- · 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.

Label	Function
J1	CMOS clear
J2	Watchdog timer output selection

Label	Function
CN1	Primary IDE connector
CN2	,
	Secondary IDE connector
CN3	Floppy drive connector
CN4	Parallel port
CN6	USB port
CN7	VGA connector
CN8	10/100Base-T Ethernet connector 2
CN9	Serial port: COM1
CN10	Serial port: COM2
CN11	PS/2 keyboard and mouse connector
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
CN22	HW Monitor Alarm
	Close: Enable OBS Alarm
	Open: Disable OBS Alarm
CN27	Extension I/O board connector
CN28	Extension I/O board connector
CN29	No function
CN43	Audio Daughter Board
CN46	Auxiliary 4-pin power connector
CN47	Auxiliary 4-pin power connector

Extension I/O board			
Daughter	board 1		
CN31	USB port 0, 1		
CN32	USB port 2, 3		
CN33	PS/2 mouse connector		
CN34	10/100Base-T Ethernet connector 1		

J1: CMOS clear function			
Pins	Result		
1-2 (open)	Keep CMOS data*		
1-2 (close)	Clear CMOS		



^{*}default setting

Software Installation

The CD disc contains a driver installer program that will lead you through the installation of various device drivers needed to take full advantage of your CPU card.

Caution

The computer is provided with a battery-powered Real-time Clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to manufacturer's instructions

