

PCA-6168 Socket 370 Celeron™ SBC with VGA, Ethernet and SCSI

Startup Manual

Packing List

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

- 1 PCA-6168 socket 370 Celeron™ processor-based single board computer
- 1 cooling fan (optional) p/n:1759205400
- 4 SCSI driver disks (optional)
- 1 FDD cable p/n: 1701340703
- 2 UDMA 33 HDD cables p/n: 1701400607
- 1 printer (parallel port) and COM port cable kit p/n: 1701260305
- 1 ATX-to-PS/2 power cable p/n: 1700000450
- 1 ivory cable for PS/2 keyboard and PS/2 mouse p/n: 1700060202
- 1 SCSI cable (optional) p/n: 1701060000
- 1 USB cable (optional) p/n: 1700100170
- 1 PCA-6168 startup manual
- CD-ROM and 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 the PCA-6168, 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 (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://support.advantech.com>

This manual is for the PCA-6168 series Rev. A1

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Specifications

Standard SBC Functions

- **CPU:** Socket 370 for Intel® Celeron™ processor
- **BIOS:** Award 2 Mb Flash memory BIOS
- **System memory:** Three 168-pin DIMM sockets accepts up to 768 MB SDRAM
- **Enhanced IDE interface:** Supports up to four EIDE devices. BIOS auto-detect, PIO Mode 3 or Mode 4, UDMA 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
- **Infrared port:** Shared with COM2. Transfer rates up to 115 Kbps
- **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. APM 1.2 compliant
- **Watchdog timer:** 63 level timer intervals
- **USB:** Two Universal Serial Bus ports

Solid State Disk

- Supports DOC 2000 up to 144 MB

VGA/LCD Interface

- **Chipset:** ATI Rage Pro, 4 MB SGRAM onboard
- **Interface:** AGP 2x, Accelerator graphics ports

Ethernet Interface

- **Chipset:** Intel 82558
- **Ethernet interface:** PCI 10/100 Mbps Ethernet, IEEE 802.3U protocol compatible
- **Connection:** On-board RJ-45 connector

Specifications Cont.

SCSI Interface

- **Chipset:** SYMBIOS SYM53C895
- **Interface:** Ultra2 SCSI supports data transfer up to 80 Mb/sec.

Mechanical and Environmental

- **Dimensions (L x W):** 338 x 122 mm
- **Power supply voltage:** +5 V, ± 12 V
- **Power requirements:** 5.25 A @ +5 V (typical, Celeron™ 366 MHz)
- **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.

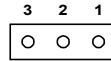
The table below lists the function of each of the jumpers and connectors.

Label	Function
J1	CMOS clear
J2	Watchdog timer output
J3	DOC 2000 setting

Label	Function
CN1	Primary IDE connector
CN2	Secodary IDE connector
CN3	Floppy drive connector
CN4	Parallel port
CN5	SCSI connector
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
CN15	PU Temperature sensor
CN16	POWER LED and keyboard lock
CN17	External speaker
CN18	Reset connector
CN19	HDD LED connector
CN20	ATX feature connector
CN21	ATX soft power switch

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

J3: DiskOnChip® 2000 Flash disk memory address jumper settings

Segment	A	B	C	A B C
C800h	ON	ON	ON	

Segment	A	B	C	A B C
CC00h	ON	ON	OFF	

Segment	A	B	C	A B C
D000h	ON	OFF	ON	

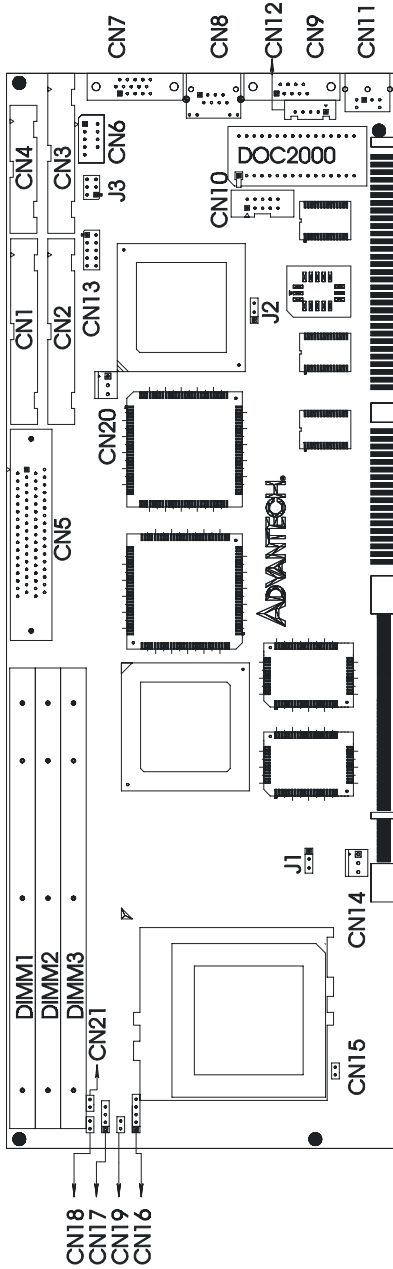
Segment	A	B	C	A B C
D400h	ON	OFF	OFF	

Segment	A	B	C	A B C
D800h	OFF	ON	ON	

Segment	A	B	C	A B C
DC00h	OFF	ON	OFF	

Segment	A	B	C	A B C
E000h	OFF	OFF	ON	

Segment	A	B	C	A B C
Disable	OFF	OFF	OFF	



Locations of PCA-6168 jumpers and connectors