PCA-6359 Pentium® MMX SBC with VGA, LCD, Ethernet & SCSI

Startup Manual

Packing List

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

- 1 PCA-6359 Series single board computer with on-board low power Intel® Pentium® MMX 266 MHz CPU

- 1 CD-ROM driver utility

- 4 SCSI driver disks (optional)

- 2 hard disk drive (IDE) interface cables (40-pin)

- 1 floppy disk drive interface cable (34-pin)

- 1 printer (parallel port) and COM port cable kit

- 1 printer cable and 1 serial port cable kit

- 1 PS/2 keyboard and PS/2 mouse adapter

- 1 Ultra Wide SCSI cable (optional)

- 1 ATX-to-PS/2 power cable

- 1 warranty certificate

- 1 USB cable (optional)   P/N 1700100170

- 1 6-pin mini-DIN keyboard and PS/2 mouse adapter

          P/N 1700060201

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

Note 1:   For detailed contents of the PCA-6359, 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-6359 series Rev. A1

Specifications

Standard SBC Functions

- **CPU:** Intel® Pentium® MMX CPU 266 MHz

- **BIOS:** Award 2 Mb Flash memory BIOS

- **Chipset:** Intel® 430 TX

- **System memory:** Two 168-pin DIMM sockets accepts up to 256 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

- **Keyboard/mouse connector:** Supports a standard PS/2 keyboard and a PS/2 mouse

- **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:** C&T 69000, stupports CRT and 36 bit LCD display

- **Display Memory:** 2 MB SDRAM

- **Display Resolution:** Up to 1280 X 1024 @ 256 color (16 million colors @ 4 MB)

Ethernet Interface

- **Chipset:** Intel 82559

- **Ethernet interface:** PCI 10/100 Mbps Ethernet, IEEE 802.3U protocol compatible

- **Connection:** On-board RJ-45 connector

Specifications Cont.

SCSI Interface (for PCA-6359F only)

- **Chipset:** SYMBIOS SYM53C875E
- **Interface:** Ultra wide SCSI 8-bit or 16-bit interface, up to 40 MB/s

Mechanical and Environmental

- **Dimensions (L x W):** 338 x 122 mm
- **Power supply voltage:** +5 V, ± 12 V
- **Power requirements:** 2.52 A @ +5 V
- **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
J4	44 pin LCD power select (reserved)

Label	Function
CN1	Primary IDE connector
CN2	Secodary IDE connector
CN3	Floppy drive connector
CN4	Parallel port
CN5	Ultra wide 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
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
CN23	LCD connector (reserved)
CN24	24-bit LCD display connector
CN25	36-bit LCD display connector
CN26	Reserved
CN27	Single end SCSI connector

Table 1-1: Clear CMOS (J1)

*Normal	CMOS data clear

*Default Setting

Table 1-2: Watchdog output (J2)

*System reset	IRQ11 interrupt

*Default Setting

Table 1-3: 44-pin LCD power select (J4)

| *5 V	3.3 V

*Default Setting

Table 1-4: DiskOnChip® 2000 Flash disk memory address jumper settings (J3)

Segment	A	B	C	
CC00h	ON	ON	OFF	A B C
D000h	ON	OFF	ON	A B C
D400h	ON	OFF	OFF	A B C
D800h	OFF	ON	ON	A B C
DC00h	OFF	ON	OFF	A B C
E000h	OFF	OFF	ON	A B C
Disable	OFF	OFF	OFF	A B C
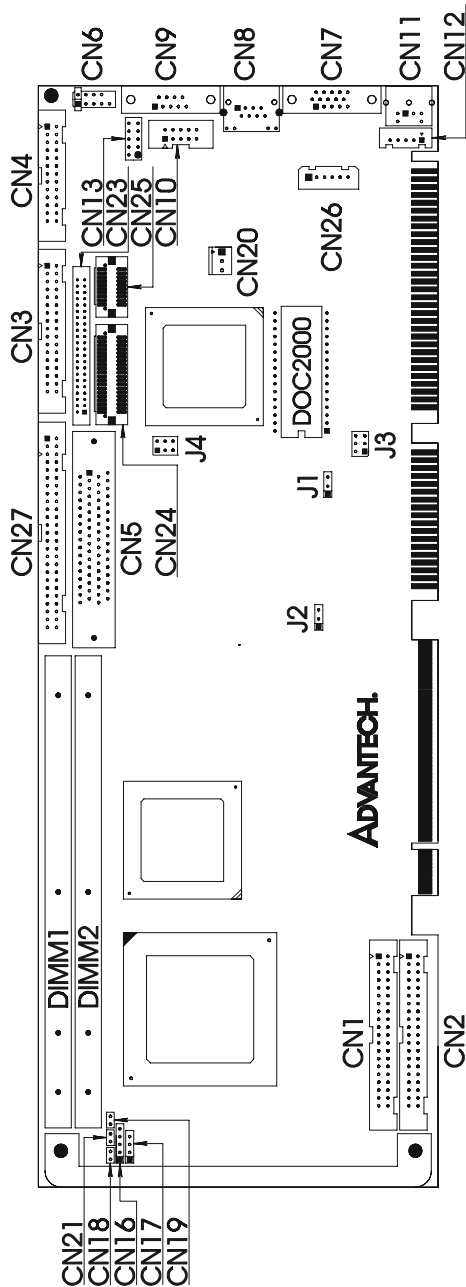
Locations of PCA-6359 jumpers and connectors