PCM-4825/4825L 486 SBC with VGA/LCD and Audio

Startup Manual

Packing List

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

- 1 PCM-4825/4825L all-in-one single board computer
- 1 start-up manual
- 1 audio cable (PCM-4825 only)
- 1 3.5" IDE flat cable
- 1 keyboard/mouse cable
- 1 secondary serial port cable (RS-232/422/485)
- 1 parallel cable
- 1 floppy cable
- CD-ROM or disks for utility, drivers, and manual (in PDF format)

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

Note: For detailed information on the PCM-4825/4825L, please refer to the enclosed CD-ROM or disk (in PDF format).

Specifications

Standard SBC Functions

- **CPU:** Embedded AMD 5x86-133 (DX5-133) processor
- **BIOS:** Award 128 KB Flash memory
- **Chipset:** VIA VT82C496G
- **System memory:** One 72-pin SIMM sockets (accepts 1/2/4/8/16/32 MB) and supports FPM or EDO DRAM 1 ~ 32 MB
- **Enhanced IDE hard disk drive interface:** Supports up to two IDE (VL-bus) hard disks. BIOS auto-detect and PIO Mode 3 transfer protocol
- **Serial ports:** One serial RS-232 port, one serial RS-232/422/485 port. Two 16550 serial UARTs
- **Parallel port:** One parallel port, supports SPP/EPP/ECP mode
- **Infrared port:** Shared with COM2. Transfer rate up to 115 Kbps
- **Keyboard/mouse connector:** Mini-DIN connector supports a standard PC/AT keyboard and a PS/2 mouse
- **Power management:** Supports power saving modes including Normal/Standby/Suspend modes. APM 1.1 compliant

Local-bus Flat Panel/VGA Interface

- **Chipset:** C&T 65550
- **Display memory:** 1 MB DRAM
- **Display type:** Supports CRT and flat panel (EL, LCD, and gas plasma flat panel) displays. Simultaneous display of CRT and flat panel possible
- **Flat panel display mode:** Up to 800 x 600 @ 256 colors
- **CRT display mode:** Non-interlaced CRT monitors resolutions up to 1280 x 1024 @16 colors

Audio Function (PCM-4825 only)

- **Chipset:** ESS 1868/1869
- **Audio controller:** 16-bit Sound Blaster Pro compatible
- **Stereo sound:** Full-duplex, integrated 3D audio
- **Audio interface:** Mic in, Line in, CD audio in, Line out, Stereo speaker out

Mechanical and Environmental

- **Dimension (L x W):** 145 mm x 102 mm (5.9" x 4.2")
- **Power supply voltage:** +5 V (4.75 ~ 5.25 V)
- **Power requirements:** +5 V @ 2 A (typical)
- **Operating temperature:** 0 ~ 60° C (32° ~ 140° F)
- **Weight:** 0.65 kg (weight of total package)

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

http://www.advantech.com
http://www.advantech.com/epc

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

http://support.advantech.com

This manual is for the PCM-4825/4825L Rev. A1 or higher.

Part No. 2006482501 1st edition
Printed in Taiwan Aug. 1999

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 board jumpers and connectors:

Jumpers

Label	Function
J2	DOC® 2000 address setting
J3	LCD power selector
J4	Clear CMOS
J5	Audio AMP power selector
J7	COM2 selector

Connectors

Label	Function
CN1	Power connector (-5 V, -12 V)
CN2	Floppy disk connector
CN3	PC/104 connector
CN4	Parallel port connector
CN5	PC/104 connector
CN6	Flat panel connector
CN7	Hard disk connector
CN8	IR connector (infrared)
CN9	COM2 connector
CN10	CD audio in connector
CN11	Audio connector
CN12	Power connector (+5 V, +12 V)
CN13	COM1 connector
CN14	PS/2 keyboard & PS/2 mouse connector
CN15	CRT display connector
J6	Reset switch

Jumper Settings

J2: DOC® 2000 address setting

Pins			Address
1-2	3-4	5-6	
closed	closed	closed	C800
closed	closed	open	CC00
*closed	open	closed	D000
closed	open	open	D400
open	closed	closed	D800
open	closed	open	DC00
open	open	closed	E000
open	open	open	OFF

J3: LCD power

Closed pins	Voltage
1-2	3.3 V
*2-3	5 V

J4: Clear CMOS

Closed pins	Result
1-2	Clear CMOS
*2-3	3.6 V battery

J5: Audio AMP power

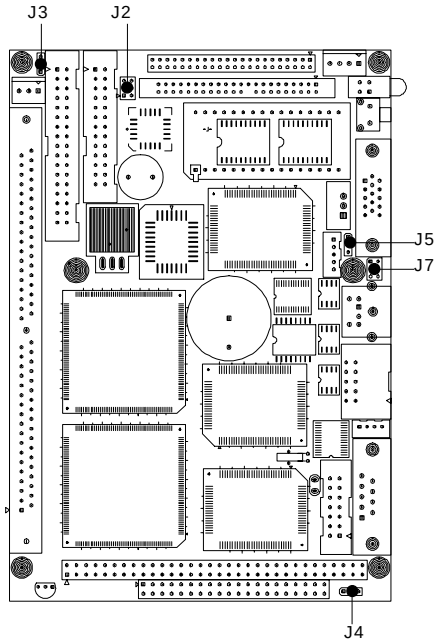
Closed pins	Audio power
1-2	From main power (5 V)
*2-3	From 7805CT (5 V)

J7: COM2 selector

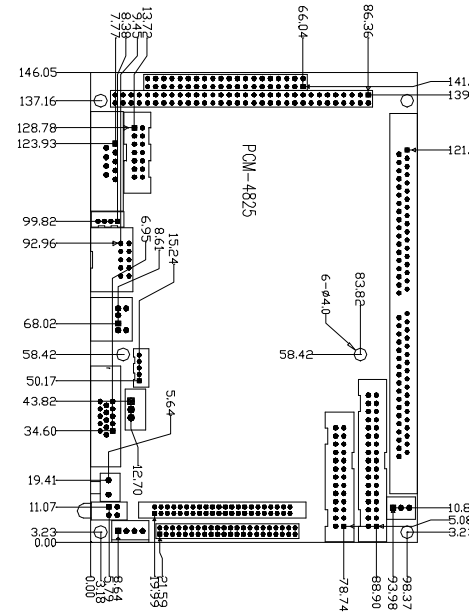
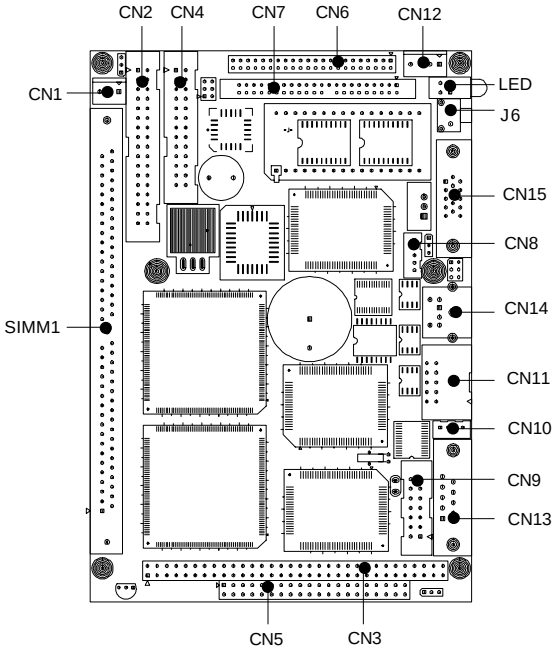
Closed pins	Result
*1-2	RS-232
3-4	RS-422
5-6	RS-485

*default setting

Locating Jumpers



Mechanical Drawing



Locating Connectors