PCM-4823/L 486 SBC with VGA/LCD/Ethernet Startup Manual

Packing List

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

- 1 PCM-4823/L all-in-one single board computer
- 1 startup manual
- 1 CD-ROM or disk for utilities, drivers, and manual (in PDF format)
- 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

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

Note:

For detailed information on the PCM-4823/L, please refer to the enclosed CD-ROM or disk (in PDF format).

Specifications

Standard SBC Functions

- CPU: Embedded AMD DX5-133 (5 x 86-133) processor
- BIOS: AWARD 128 KB Flash memory
- Chipset: VIA VT82C496G
- System memory: One 72-pin SIMM socket, accepts 4/8/16/32 MB and supports FPM or EDO DRAM from 1 to 32 MB

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

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-4823/L.

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- 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 PS/2 mouse
- Power management: Supports power saving modes including Normal/Standby/Suspend modes. APM 1.1 compliant
- Supports M-Systems' DiskOnChip[®] 2000 Flash disk up to 144 MB
- · Watchdog timer: 1.6 second interval

Local-bus Flat Panel/VGA Interface (PCM-4823)

- Chipset: C&T 65550
- Display memory: 1 MB DRAM
- Display type: Supports CRT and flat panel (EL, LCD and gas plasma flat panel) displays. Can simultaneously display CRT and flat panel
- CRT display mode: Non-interlaced CRT monitors, resolutions up to 1280 x 1024 @ 16 colors
- Panel display modes: Supports resolutions up to 1024 x 768

Ethernet Interface

- Chipset: RTL 8019AS
- · I/O address switchless setting
- Software compatible with NE1000 and NE2000
- Built-in boot ROM

Mechanical and Environmental

- Dimensions (L x W): 145 mm x 102 mm (5.9" x 4.2")
- Power supply voltage: +5 V (4.75 V ~ 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)

Jumpers and Connectors

The PCM-4823/L 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's jumpers and connectors:

Label	Function
J2	DOC® 2000 address setting
J3	LCD power selector
J4	Clear CMOS
J6	COM2 selector
J8	Watchdog timer action

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	Ethernet connector
CN11	Power connector (+5 V, +12 V)
CN12	COM1 connector
CN13	PS/2 keyboard and PS/2 mouse
CN14	CRT display connector
J5	Reset switch
J7	CPU fan connector

Jumper Settings

Pins			Address
1-2	3-4	5-6	
closed	closed	closed	C800 ~ C9FF
closed	closed	open	CC00 ~ CDFF
*closed	open	closed	D000 ~ D1FF
closed	open	open	D400 ~ D5FF
open	closed	closed	D800 ~ D9FF
open	closed	open	DC00 ~ DDFF
open	open	closed	E000 ~ E1FF
open	open	open	OFF
J3: LCD pow	er setting		
Closed pins	Voltage		
1-2	3.3 V		
*2-3	5 V		

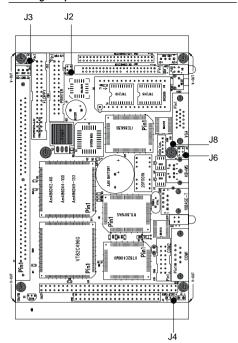
Closed pins	Result
1-2	Clear CMOS
*2-3	3 V Battery on

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

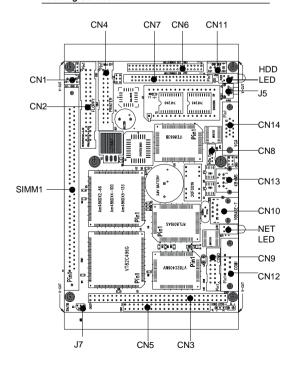
J8: Watchdog timer action		
Closed pins	Result	
1-2	IRQ11	
*2-3	System reset	

^{*} default setting

Locating Jumpers



Locating Connectors



Mechanical Drawing

