

PCM-3864/3860 386SBC with VGA/LCD

Start-up Manual

Packing list

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

- 1 PCM-3864/3860 All-in-one single board computer
- 1 Start-up manual
- 1 Floppy cable
- 1 3.5" IDE flat cable
- 1 DIN jack 5p-6p cable
- 1 secondary serial port cable (RS-232/422/485)
- 1 Parallel 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 contents of the PCM-3864/3860, please refer to the enclosed CD-ROM or Disk (in PDF format).

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-3864/3860

Part No. 2006000032
 Printed in Taiwan

1st edition
 July 1999

Specifications

Standard SBC functions

- **CPU with core logic:** Ali M6117C, 40 MHz 80386SX processor
- **BIOS:** AMI 128 KB Flash memory
- **RAM:** One 72-pin SIMM socket. Supports FPM/EDO DRAM 1 ~ 16 MB (accepts 1 / 4 / 16 MB modules)
- **Enhanced IDE hard disk drive interface:** Supports up to two enhanced IDE devices. BIOS auto-detect
- **Multi-mode parallel port:** Configured to LPT1, LPT2, LPT3 or disabled. Supports SPP/EPP/ECP mode. D-SUB 25-pin connector on board
- **Floppy disk interface:** Supports up to two FDDs: 3.5" (720 KB or 1.44 MB) and/or 5.25" (360 KB or 1.2 MB)
- **Serial ports:** One serial RS-232 port, one serial RS-232/422/485 port. Two 16C550 compatible UARTs
- **PS/2 Keyboard connector:** Mini-DIN keyboard connector

Digital I/O

- **Digital input x 4:** TTL compatible input voltage
 High: 2.0 V minimum
 Low: 0.8 V maximum
- **Digital output x 4:** TTL compatible output V
 High: source 0.4 mA @ 2.4 V min.
 low: sink 8 mA @ 0.5 V max.

SVGA/flat panel interface

- **Chipset:** C&T 65545
- **Display memory:** 512 KB DRAM
- **Hardware Windows acceleration:** 16-bit graphic engine. Hardware line drawing and 64 x 64 x 2 hardware cursor
- **Resolution:** Panel resolution up to 640 x 480 @ 256 colors. Non-interlaced CRT monitors resolution up to 1024 x 768 @ 16 colors

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 @ 1.5 A (typical)
- **Operating temperature:** 0 ~ 60° C (32° ~ 140° F)
- **Weight:** 0.2 kg




J4: CMOS setup

	*3.6 V battery on	Clear CMOS
J4	1-2	2-3

J5: DIO port selector

	*340 H	240 H
J5		

J6: COM2 selector

	*RS-232	RS-422	RS-485
J6			

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
J1	Enable watchdog timer
J3	Enable watchdog timer
J4	CMOS setup
J5	DIO port selector
J6	COM2 RS-232/422/485 selector

Connectors

Label	Function
CN1	PC/104 connector
CN2	PC/104 connector
CN3	COM1 connector
CN4	COM2 connector
CN5	Digital I/O port
CN6	PS/2 keyboard connector
CN7	CRT display connector (PCM-3864 only)
CN8	Power connector (-5 V, -12 V)
CN9	Hard disk connector
CN10	Floppy disk connector
CN11	Parallel port connector
CN12	LCD connector (PCM-3864 only)
CN13	Power connector (+5 V, +12 V)
SW1	Reset switch

Jumper settings

J1 & J3: Watchdog timer enable/disable

	enable	*disable
J1		
J3		

Locating Jumpers

