

PCI-6771 Socket 370 Celeron™ SBC with High Speed PCI Bus, 3D LCD and Ethernet

Startup Manual

Packing List

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

- 1 PCI-6771 all-in-one single board computer
- 1 hard disk drive (IDE) interface cable (44-pin)
p/n: 1701440350
- 1 floppy disk drive interface cable (34-pin)
p/n: 1701340600
- 1 parallel port cable (26-pin) p/n: 1700260250
- 1 COM port cable (9-pin) p/n: 1700100250
- 1 6-pin mini-DZN keyboard & PS/2 mouse adaptor
p/n: 1700060201
- 1 ATX/AT power cable p/n: 1700000450
- 1 CPU cooling fan p/n: 1759200100
- 1 startup manual
- CD-ROM or disks for utility, drivers, 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 PCI-6771, 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/epc>

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

<http://support.advantech.com>

This manual is for the PCA-6771 series Rev.A1

Part No. 2006677110
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1st Edition
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Specifications

Standard SBC Functions

- **CPU:** Socket 370 for Intel® Celeron™ processor
- **BIOS:** Award 256 KB Flash memory
- **System memory:** Two 144-pin SO DIMM sockets accept 16 ~ 128 MB SDRAM
- **Enhanced IDE interface:** Supports up to two 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, COM1, RS-232, COM2: RS-232/422/485
- **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 standard PC/AT keyboard and a PS/2 mouse
- **Power management:** Supports power saving modes including Normal/Standby/Suspend modes. APM 1.2 compliant
- **Watchdog timer:** 62 level timer intervals
- **USB:** Two Universal Serial Bus ports

Solid State Disk

- Supports one 50-pin socket for CompactFlash card

VGA/LCD Interface

- **Chipset:** Trident Cyber 9525DVD 2.5 MB SDRAM on chip
- **Interface:** 2 x AGP interface, 3D 64-bit engine

Ethernet Interface

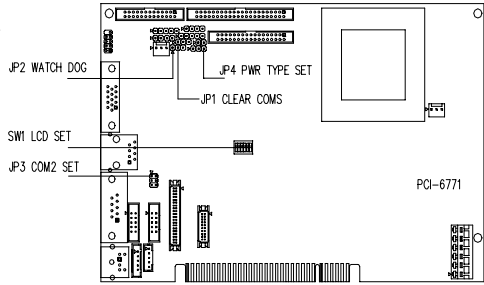
- **Chipset:** Realtek™ RTL8139
- **Ethernet interface:** PCI 10/100 Mbps Ethernet, IEEE 802.3U protocol compatible
- **Connection:** On-board RJ-45 connector

Specifications Cont.

Mechanical and Environmental

- **Dimensions (L x W):** 185 x 122 mm
- **Power supply voltage:** +5 V \pm 5%
- **Power requirements:** 5.2 A @ +5 V (typical, 64 MB DRAM, Celeron™-433 CPU)
- **Operating temperature:** 0 ~ 60° C
- **Weight:** 0.7 kg (weight of total package)

Locating Jumpers



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
JP1	CMOS clear
JP2	Watchdog timer action
JP3	COM2 RS-232/422/485 setting
JP4	Power type select
SW1	Panel type select

Locating jumpers (component side)

JP1: CMOS clear function

Closed pins	Result
1-2	Normal (3 V battery on)*
2-3	Clear CMOS

JP2: Watchdog timer action

Closed pins	Result
1-2	IRQ11
2-3	System reset

JP3: COM2 RS-232/422/485 select

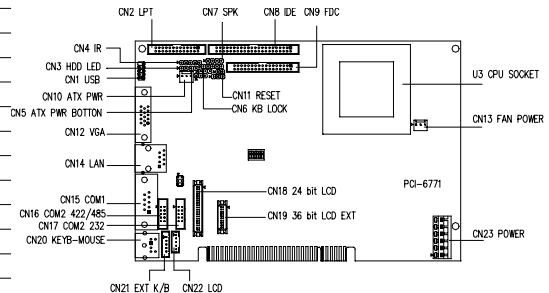
	RS-232*	RS-422	RS-485
1-2	Open	Open	Closed
3-4	Open	Closed	Open
5-6	Closed	Open	Open

JP4: Power type select

1-2	ATX power
2-3	AT power*

*default setting

Label	Function
CN1	USB channel 1, 2 connector
CN2	Parallel port connector
CN3	External IDE LED
CN4	IR connector
CN5	ATX power switch button
CN6	Keyboard Lock connector
CN7	Speaker connector
CN8	IDE hard drive connector
CN9	Floppy drive connector
CN10	ATX feature connector
CN11	Reset connector
CN12	CRT display connector
CN13	Fan power connector
CN14	Ethernet 100/10Base-T connector
CN15	COM1, 232 connector
CN16	COM2, 422/485 connector
CN17	COM2, 232 connector
CN18	Flat panel connector
CN19	Ext. flat panel display connector
CN20	Keyboard and PS/2 mouse connector
CN21	EXT keyboard connector
CN22	LCD inverter power
CN23	Main power connector (AT power p8)
CN24	CFC connector



Locating connectors (component side)

PCI-6771 Mechanical Drawing

CN7: External speaker connection

Pins 3-4

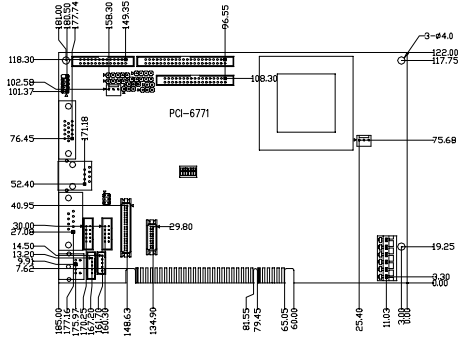
Result

Closed	Internal speaker enabled
Open	Internal speaker disabled

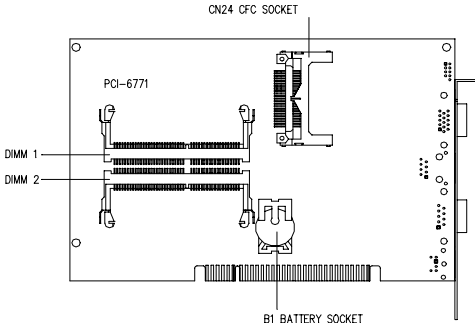
SW1: Panel type select

Pin						Panel Type		
1	2	3	4	5	6			
0	0	0	0	0	NC	TFT	640 x 480	18 bits
0	X	0	0	0	NC	TFT	800 x 600	18 bits
0	0	X	0	0	NC	TFT	1024 x 768	24 bits
0	X	X	0	0	NC	TFT	1024 x 768	36 bits
0	0	0	0	X	NC	STN	640 x 480	16 bits
0	X	0	0	X	NC	STN	800 x 600	16 bits
0	0	X	0	X	NC	STN	1024 x 768	16 bits
0	X	X	0	X	NC	STN	1024 x 768	24 bits

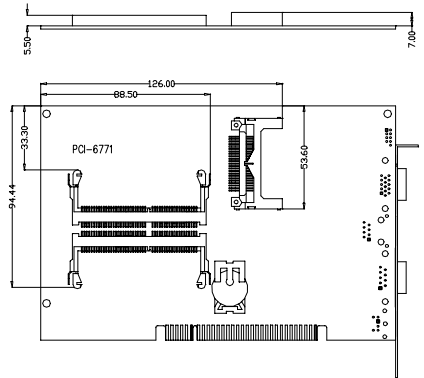
Note: 0 : ON, X: OFF



mechanical drawing (component side)



Locating connectors (solder side)



Mechanical drawing (solder side)