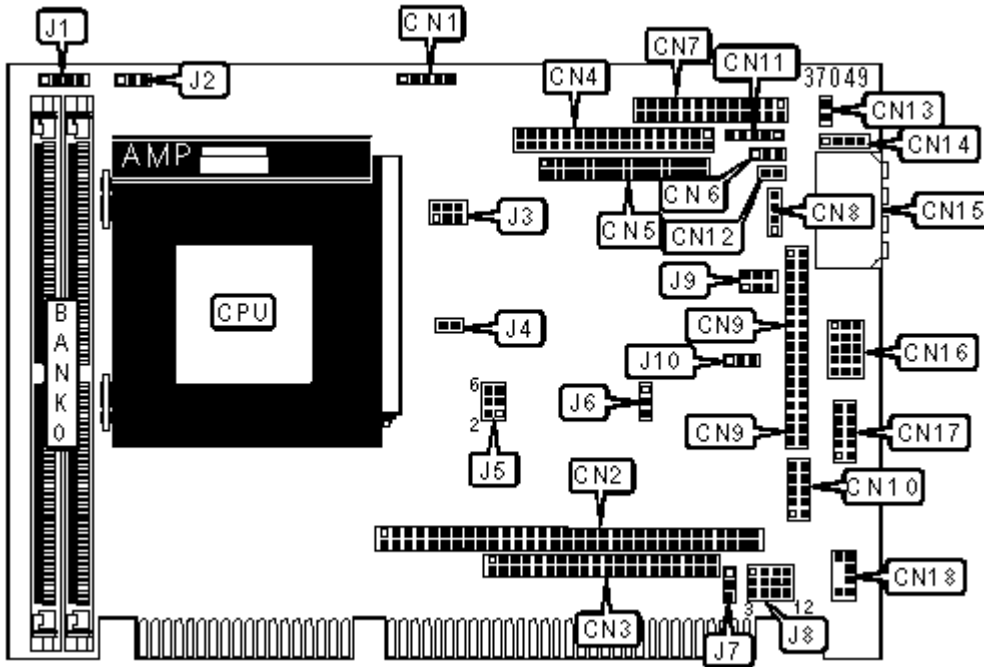


# ADVANTECH CO., LTD.

PCA-6153

<b>Device Type</b>	Single Board Computer
<b>Processor</b>	CX 6X86L/AM K5/Pentium/Pentium MMX
<b>Processor Speed</b>	75/90/100/120/133/150/166/200MHz
<b>Chip Set</b>	SIS
<b>Video Chip Set</b>	Chips & Technology
<b>Maximum Onboard Memory</b>	64MB (supports EDO memory)
<b>Maximum Video Memory</b>	1MB
<b>Cache</b>	512KB (located on the CPU)
<b>BIOS</b>	Award
<b>Dimensions</b>	185mm x 122mm
<b>I/O Options</b>	Floppy drive interface, IDE interface, parallel port, PS/2 mouse & keyboard interface, serial interfaces (2), VGA interface, PC/104 connector (16-bit)
<b>Data Bus</b>	16-bit ISA



CONNECTIONS			
Purpose	Location	Purpose	Location
Keylock & Power LED	CN1	Serial interface 2	CN10
PC/104 connector (8-bit)	CN2	Auxilliary keyboard connector	CN11
PC/104 connector (16-bit)	CN3	IDE interface LED	CN12
Enhanced IDE interface	CN4	Reset connector	CN13
Flat panel connector	CN5	Speaker	CN14
Fan connector	CN6	Power connection	CN15
Parallel port	CN7	VGA interface	CN16

Peripheral power input connector	CN8	Serial port 1	CN17
Floppy drive interface	CN9	PS/2 mouse/keyboard interface	CN18

### USER CONFIGURABLE SETTINGS

Function		Label	Position
	Internal buzzer enabled	CN14	Pins 3 & 4 closed
	Internal buzzer disabled	CN14	Pins 3 & 4 open
»	CPU voltage 3.45v	J2	Pins 2 & 3 closed
	CPU voltage 2.8v	J2	Pins 1 & 2 closed
	Pentium MMX enabled	J3	Pins 1 & 2 closed
	Pentium MMX disabled	J3	Pins 1 & 2 open
»	Cache for Intel CPU selected	J4	Open
	Cache for Cyrix linear mode selected	J4	Closed
»	CMOS memory normal operation	J6	Pins 1 & 2 closed
	CMOS memory clear	J6	Pins 2 & 3 closed
»	Watchdog timer generates system reset	J7	Pins 1 & 2 closed
	Watchdog timer generates through IRQ15	J7	Pins 2 & 3 closed
	LCD voltage 3.45v	J10	Pins 1 & 2 closed
	LCD voltage 5v	J10	Pins 2 & 3 closed

### SIMM CONFIGURATION

Size	Bank 0
8MB	(2) 1M x 36
16MB	(2) 2M x 36
32MB	(2) 4M x 36
64MB	(2) 8M x 36

### CPU SPEED SELECTION (CYRIX 6X86L)

	<b>CPU speed</b>	<b>Clock speed</b>	<b>Multiplier</b>	<b>J2</b>	<b>J3</b>	<b>J5</b>
	75MHz	50MHz	1.5x	Open	Open	Pins 1 & 2, 3 & 4 closed
	90MHz	60MHz	1.5x	Open	Open	Pins 1 & 2 closed
	100MHz	66MHz	1.5x	Closed	Open	Pins 1 & 2, 3 & 4 closed
	120MHz	60MHz	2x	Closed	Open	Open
»	133MHz	66MHz	2x	Closed	Open	Open
	150MHz	60MHz	2.5x	Closed	Closed	Pins 1 & 2 closed
	166MHz	66MHz	2.5x	Closed	Closed	Open
	200MHz	66MHz	3x	Closed	Closed	Open

#### CPU SPEED SELECTION (AM K5)

<b>CPU speed</b>	<b>Clock speed</b>	<b>Multiplier</b>	<b>J2</b>	<b>J3</b>	<b>J5</b>
75MHz	50MHz	1.5x	Open	Open	Pins 1 & 2, 3 & 4 closed
90MHz	60MHz	1.5x	Open	Open	Pins 1 & 2 closed
100MHz	50MHz	2x	Closed	Open	Pins 1 & 2, 3 & 4 closed
120MHz	60MHz	2x	Closed	Open	Open
133MHz	66MHz	2x	Closed	Open	Open
150MHz	60MHz	2.5x	Closed	Closed	Pins 1 & 2 closed
166MHz	66MHz	2.5x	Closed	Closed	Open
200MHz	66MHz	3x	Closed	Closed	Open

#### CPU SPEED SELECTION (PENTIUM)

<b>CPU speed</b>	<b>Clock speed</b>	<b>Multiplier</b>	<b>J2</b>	<b>J3</b>	<b>J5</b>
75MHz	50MHz	1.5x	Open	Open	Pins 1 & 2, 3 & 4 closed
90MHz	60MHz	1.5x	Open	Open	Pins 1 & 2 closed
100MHz	50MHz	2x	Closed	Open	Pins 1 & 2, 3 & 4 closed
120MHz	60MHz	2x	Closed	Open	Open

133MHz	66MHz	2x	Closed	Open	Open
150MHz	60MHz	2.5x	Closed	Closed	Pins 1 & 2 closed
166MHz	66MHz	2.5x	Closed	Closed	Open
200MHz	66MHz	3x	Closed	Closed	Open

<b>CPU SPEED SELECTION (PENTIUM MMX)</b>					
<b>CPU speed</b>	<b>Clock speed</b>	<b>Multiplier</b>	<b>J2</b>	<b>J3</b>	<b>J5</b>
75MHz	50MHz	1.5x	Open	Open	Pins 1 & 2, 3 & 4 closed
90MHz	60MHz	1.5x	Open	Open	Pins 1 & 2 closed
100MHz	50MHz	2x	Closed	Open	Pins 1 & 2, 3 & 4 closed
120MHz	60MHz	2x	Closed	Open	Open
133MHz	66MHz	2x	Closed	Open	Open
150MHz	60MHz	2.5x	Closed	Closed	Pins 1 & 2 closed
166MHz	66MHz	2.5x	Closed	Closed	Open
200MHz	66MHz	3x	Closed	Closed	Open

<b>CHIPSET OPTIMAL TIMING SELECTION</b>		
	<b>DPLL</b>	<b>J1</b>
	50MHz	Pins 1 & 2, 5 & 6 closed
»	60MHz	Pins 1 & 2, 3 & 4 closed
	66MHz	Pins 3 & 4 closed
	75MHz	Pins 1 & 2 closed

<b>SERIAL INTERFACE 2 PROTOCOL SELECTION</b>			
	<b>Protocol</b>	<b>J8</b>	<b>J9</b>
»	RS-232	1 & 2, 4 & 5, 7 & 8, 10 & 11	1 & 2
	RS-422	2 & 3, 5 & 6, 8 & 9, 11 & 12	3 & 4
	RS-485	2 & 3, 5 & 6, 8 & 9, 11 & 12	5 & 6

Note: Pins are in the closed position.