ADVANTECH CO., LTD.

PCA-6155

Device Type	Single Board Computer
Processor	CX 6X86/Pentium
Processor Speed	75/90/100/120/133/166MHz
Chip Set	VIA
Maximum Onboard Memory	128MB (EDO supported)
Cache	256/512KB (located on the CPU)
BIOS	Award
Dimensions	338mm x 122mm
I/O Options	Floppy drive interface, IDE interfaces (2), parallel interface, PS/2 mouse/keyboard port, Keyboard interface, serial ports (2), IR connector
Data Bus	16-bit ISA/32-bit PCI
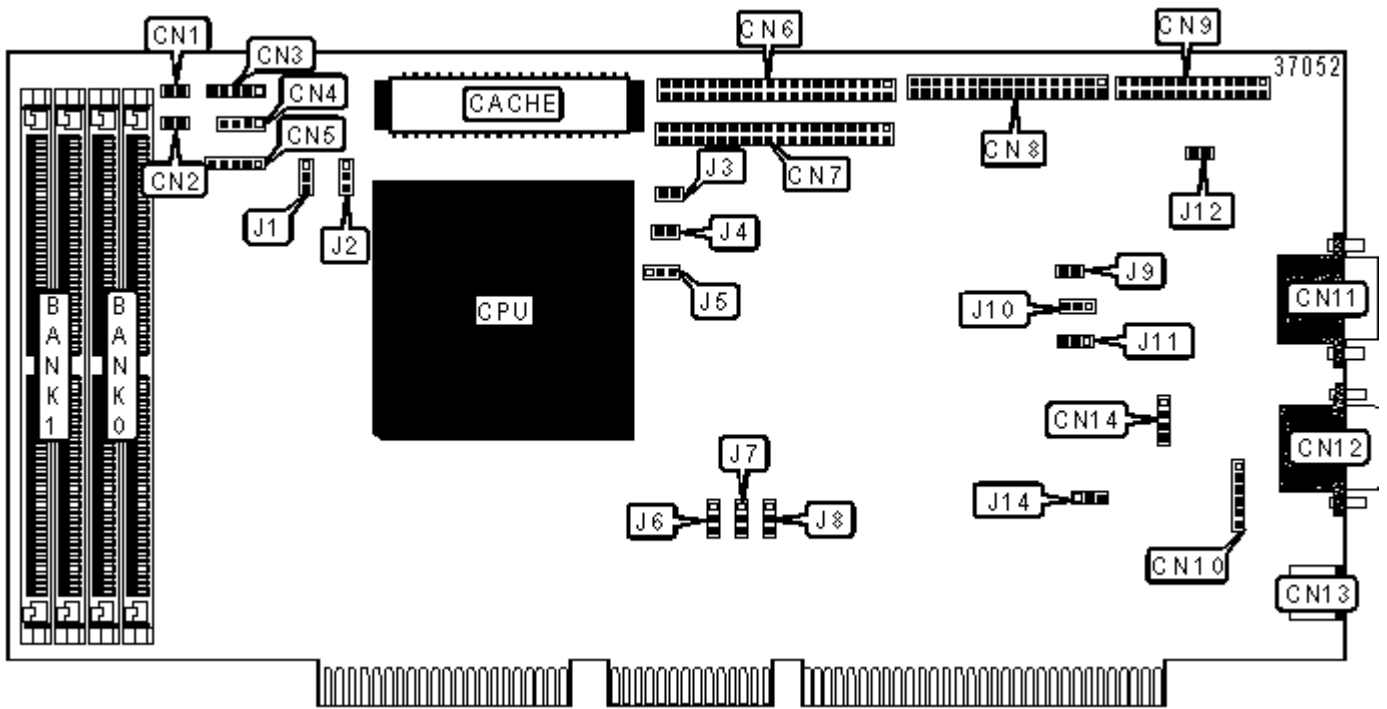
CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
Reset switch	CN1	Floppy drive interface	CN8
IDE interface LED	CN2	Parallel interface	CN9
IR connector	CN3	Keyboard interface	CN10
Speaker	CN4	Serial port 1	CN11
Power LED & keylock	CN5	Serial port 2	CN12
IDE interface 1	CN6	PS/2 mouse/keyboard port	CN13
IDE interface 2	CN7	CPU fan power	CN14

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
	RTC data erase enabled	J11	Pins 1 & 2 closed
	RTC data erase disabled	J11	Pins 2 & 3 closed
	Buzzer enabled	J12	Closed
	Buzzer disabled	J12	Open
»	PS/2 mouse to IRQ 12 selected	J14	Pins 2 & 3 closed
	Applications to IRQ 12 selected	J14	Pins 1 & 2 closed

SIMM CONFIGURATION		
Size	**Bank 0**	**Bank 1**
8MB	(2) 1M x 36	None
16MB	(2) 2M x 36	None
16MB	(2) 1M x 36	(2) 1M x 36
24MB	(2) 2M x 36	(2) 1M x 36
32MB	(2) 4M x 36	None
32MB	(2) 2M x 36	(2) 2M x 36
40MB	(2) 4M x 36	(2) 1M x 36
48MB	(2) 4M x 36	(2) 2M x 36
64MB	(2) 8M x 36	None
64MB	(2) 4M x 36	(2) 4M x 36
72MB	(2) 8M x 36	(2) 1M x 36
80MB	(2) 8M x 36	(2) 2M x 36
96MB	(2) 8M x 36	(2) 4M x 36
128MB	(2) 8M x 36	(2) 8M x 36

CACHE SELECTION		
Function		**J5**
»	No cache	Open

	Synchronized	Pins 2 & 3 closed
	Asynchronized	Pins 1 & 2 closed

WATCHDOG TIMER RESET/IRQ SELECTION		
Function	**J9**	**J10**
» Timer reset	Open	Pins 2 & 3 closed
IRQ11	Open	Pins 1 & 2 closed
IRQ15	Closed	Open

CPU SPEED SELECTION (CYRIX 6X86)							
CPU speed	**Clock speed**	**Multiplier**	**J3**	**J4**	**J6**	**J7**	**J8**
120MHz	60MHz	2x	Open	Closed	1 & 2	1 & 2	1 & 2
133MHz	66MHz	2x	Open	Closed	2 & 3	2 & 3	1 & 2
150MHz	60MHz	2.5x	Closed	Closed	1 & 2	1 & 2	1 & 2
166MHz	66MHz	2.5x	Closed	Closed	2 & 3	2 & 3	1 & 2

CPU SPEED SELECTION (PENTIUM)							
CPU speed	**Clock speed**	**Multiplier**	**J3**	**J4**	**J6**	**J7**	**J8**
75MHz	50MHz	1.5x	Open	Open	2 & 3	1 & 2	2 & 3
90MHz	60MHz	1.5x	Open	Open	1 & 2	1 & 2	1 & 2
100MHz	66MHz	1.5x	Open	Open	2 & 3	2 & 3	1 & 2
120MHz	60MHz	2x	Open	Closed	1 & 2	1 & 2	1 & 2
133MHz	66MHz	2x	Open	Closed	2 & 3	2 & 3	1 & 2
150MHz	60MHz	2.5x	Closed	Closed	1 & 2	1 & 2	1 & 2
166MHz	66MHz	2.5x	Closed	Closed	2 & 3	2 & 3	1 & 2

CPU VOLTAGE SELECTION		
Voltage	**J1**	**J2**

3.3v	Pins 1 & 2 closed	Open
3.45v	Pins 2 & 3 closed	Open
3.6v	Open	Pins 1 & 2 closed
3.7v	Open	Pins 2 & 3 closed