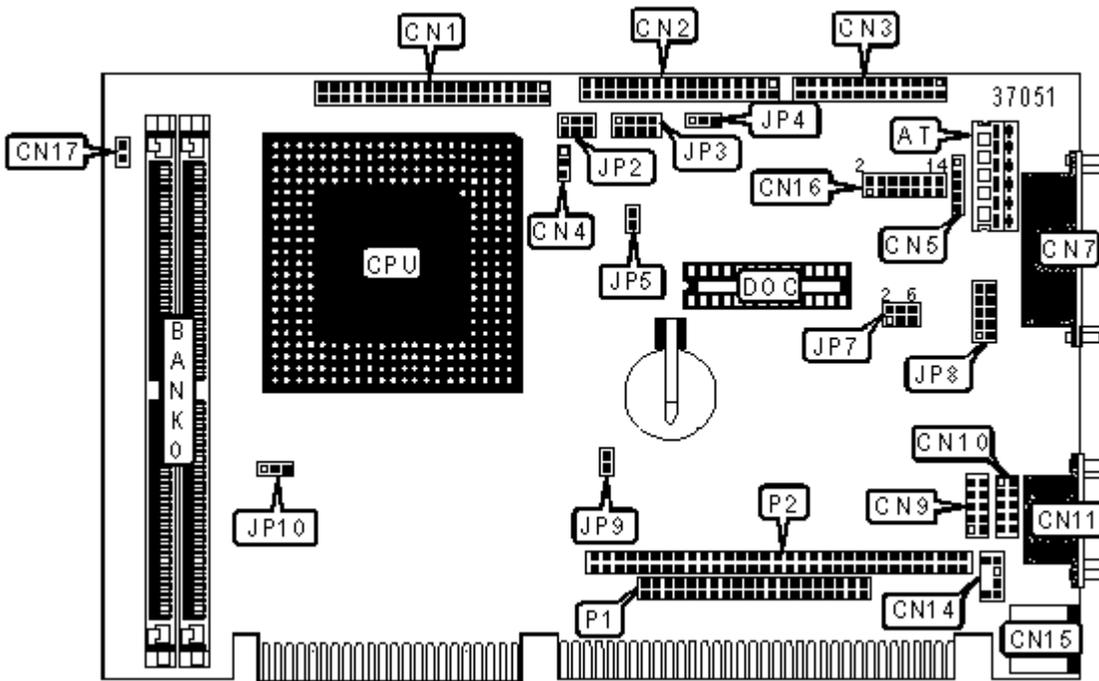


ADVANTECH CO., LTD.

PCA-6154L

Device Type	Single Board Computer
Processor	CX 6X86L/CX 686MX/AM K5/AM K6/IDT C6/Pentium/Pentium MMX
Processor Speed	100/120/133/150/166/180/200/233/266/300MHz
Chip Set	SIS
Video Chip Set	SIS
Maximum Onboard Memory	128MB (EDO supported), Unified Memory Architecture (UMA)
Cache	512KB (located on the CPU)
BIOS	Award
Dimensions	185mm x 122mm
I/O Options	Floppy drive interface, IDE interface, parallel port, PS/2 mouse/keyboard interface, serial interface, serial port, VGA port, USB interface, IR connector, AT power connector, PC/104 connector (16-bit)
Data Bus	16-bit ISA



CONNECTIONS

Purpose	Location	Purpose	Location
AT power connector	AT	Keyboard interface	CN14
IDE interface	CN1	PS/2 mouse/keyboard interface	CN15
Floppy drive interface	CN2	Power interface LED	CN16/Pins 2, 4 & 6
Parallel port	CN3	Buzzer	CN16/Pins 5 & 7
CPU Fan power	CN4	Reset switch	CN16/Pins 11 & 12
IR connector	CN5	IDE interface LED	CN17
VGA port	CN7	Disk-on-Chip	DOC

USB interface	CN9	PC/104 connector (8-bit)	P1
Serial interface	CN10	PC/104 connector (16-bit)	P2
Serial port	CN11		

USER CONFIGURABLE SETTINGS

Function		Label	Position
»	Factory configured - do not alter	JP4	Pins 2 & 3 closed
»	CMOS memory normal operation	JP5	Open
	CMOS memory clear	JP5	Closed
»	CPU clock optimization enabled	JP10	Pins 2 & 3 closed
	CPU clock optimization disabled	JP10	Pins 1 & 2 closed

CPU SPEED SELECTION (CX 6X86L)

CPU speed	Clock speed	Multiplier	JP2/Pins 1 & 2	JP2/Pins 3 & 4	JP2/Pins 5 & 6	JP9/Pins 1 & 2
133MHz	66MHz	2x	Closed	Open	Open	Open
150MHz	75MHz	2x	Closed	Open	Open	Closed

CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	JP2/Pins 1 & 2	JP2/Pins 3 & 4	JP2/Pins 5 & 6	JP9/Pins 1 & 2
166MHz	66MHz	2.5x	Closed	Closed	Open	Open

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	JP2/Pins 1 & 2	JP2/Pins 3 & 4	JP2/Pins 5 & 6	JP9/Pins 1 & 2
100MHz	66MHz	1.5x	Open	Open	Open	Open
133MHz	66MHz	2x	Closed	Open	Open	Open
166MHz	66MHz	2.5x	Closed	Closed	Open	Open

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	JP2/Pins 1 & 2	JP2/Pins 3 & 4	JP2/Pins 5 & 6	JP9/Pins 1 & 2
166MHz	66MHz	2.5x	Closed	Closed	Open	Open
200MHz	66MHz	3x	Open	Closed	Open	Open
233MHz	66MHz	3.5x	Open	Open	Open	Open

CPU SPEED SELECTION (IDT C6)

CPU speed	Clock speed	Multiplier	JP2/Pins 1 & 2	JP2/Pins 3 & 4	JP2/Pins 5 & 6	JP9/Pins 1 & 2
200MHz	66MHz	3x	Open	Closed	Open	Open

CPU SPEED SELECTION (PENTIUM)

CPU speed	Clock speed	Multiplier	JP2/Pins 1 & 2	JP2/Pins 3 & 4	JP2/Pins 5 & 6	JP9/Pins 1 & 2
100MHz	66MHz	1.5x	Open	Open	Open	Open
133MHz	66MHz	2x	Closed	Open	Open	Open
166MHz	66MHz	2.5x	Closed	Closed	Open	Open
200MHz	66MHz	3x	Open	Closed	Open	Open

CPU SPEED SELECTION (PENTIUM MMX)

CPU speed	Clock speed	Multiplier	JP2/Pins 1 & 2	JP2/Pins 3 & 4	JP2/Pins 5 & 6	JP9/Pins 1 & 2
166MHz	66MHz	2.5x	Closed	Closed	Open	Open
200MHz	66MHz	3x	Open	Closed	Open	Open
233MHz	66MHz	3.5x	Open	Open	Open	Open

DOC ADDRESS SELECTION

Address	JP7
Off	Open
CC00 - CDFF	Pins 3 & 4, 5 & 6 closed
D000 - D1FF	Pins 1 & 2, 5 & 6 closed

D400 - D5FF	Pins 5 & 6 closed
D800 - D9FF	Pins 1 & 2, 3 & 4 closed
DC00 - DDFF	Pins 3 & 4 closed
E000 - E1FF	Pins 1 & 2 closed

SERIAL PROTOCOL SETTING		
Protocol	JP8/Pins 1 & 2	
» RS-232	Pins 1 & 2, 7 & 9, 11 & 12, 13 & 15, 17 & 18 closed	
RS-422	Pins 3 & 4, 7 & 8, 10 & 12, 13 & 14, 16 & 18 closed	
RS-485	Pins 5 & 6, 7 & 8, 10 & 12 closed	

CPU VOLTAGE SELECTION					
Voltage	JP3/Pins 1 & 2	JP3/Pins 3 & 4	JP3/Pins 5 & 6	JP3/Pins 7 & 8	
1.9v	Open	Open	Open	Open	
2v	Closed	Open	Open	Open	
2.2v	Open	Closed	Open	Open	
2.3v	Closed	Closed	Open	Open	
2.4v	Open	Open	Closed	Open	
2.5v	Closed	Open	Closed	Open	
2.6v	Open	Closed	Closed	Open	
2.7v	Closed	Closed	Closed	Open	
2.8v	Open	Open	Open	Closed	
2.9v	Closed	Open	Open	Closed	
3v	Open	Closed	Open	Closed	
3.1v	Closed	Closed	Open	Closed	
3.2v	Open	Open	Closed	Closed	
3.27v	Closed	Open	Closed	Closed	

»	3.3v	Open	Closed	Closed	Closed
	3.45v	Closed	Closed	Closed	Closed