ADVANTECH CO., LTD.

PCA-6154

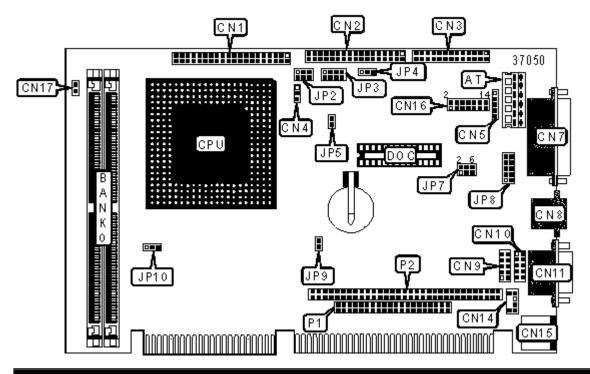|	
Device Type	Single Board Computer
Processor	CX 6X86L/CX 686MX/AM K5/AM K6/IDT C6/Pentium/Pentium MMX
Processor Speed	100/120/133/150/166/180/200/233/266/300MHz
Chip Set	SIS
Video Chip Set	SIS
Maximum Onboard Memory	128MB (EDO supported), Unified Memory Architecture (UMA)
Cache	512KB (located on the CPU)
BIOS	Award
Dimensions	185mm x 122mm
I/O Options	Ethernet connector, 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 connectors (16-bit)
Data Bus	16-bit ISA

CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
AT power connector	AT	Serial port	CN11
IDE interface	CN1	Keyboard interface	CN14
Floppy drive interface	CN2	PS/2 mouse/keyboard interface	CN15
Parallel port	CN3	Power interface LED	CN16/Pins 2, 4 & 6
CPU Fan power	CN4	Buzzer	CN16/Pins 5 & 7
IR connector	CN5	Reset switch	CN16/Pins 11 & 12
VGA port	CN7	IDE interface LED	CN17

Ethernet connector	CN8	Disk-on-Chip socket	DOC
USB interface	CN9	PC/104 connector (8-bit)	P1
Serial interface	CN10	PC/104 connector (16-bit)	P2

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