ADVANTECH CO., LTD.

PPC-140S, PPC-140T

Device Type	Mainboard
Processor	CX 6X86L/CX 686MX/AM K5/AM K6/Pentium/Pentium MMX
Processor Speed	75/90/100/120/133/150/166/180/200/233MHz
Chip Set	SIS
Video Chip Set	Chips and Technology
Audio Chip Set	ESS
Maximum Onboard Memory	128MB (SDRAM supported)
Maximum Video Memory	4MB
Maximum Audio Memory	Unidentified
Maximum Resolution	1024 x 768
Cache	512KB
BIOS	Award
Dimensions	375mm x 285mm x 93.3mm
I/O Options	PCI/ISA slot, CD-ROM interface, floppy drive interface, EIDE interface, serial interface, PCMCIA slot, IR connector, ATX power connector, AT power connector, Flat panel display connectors (2)
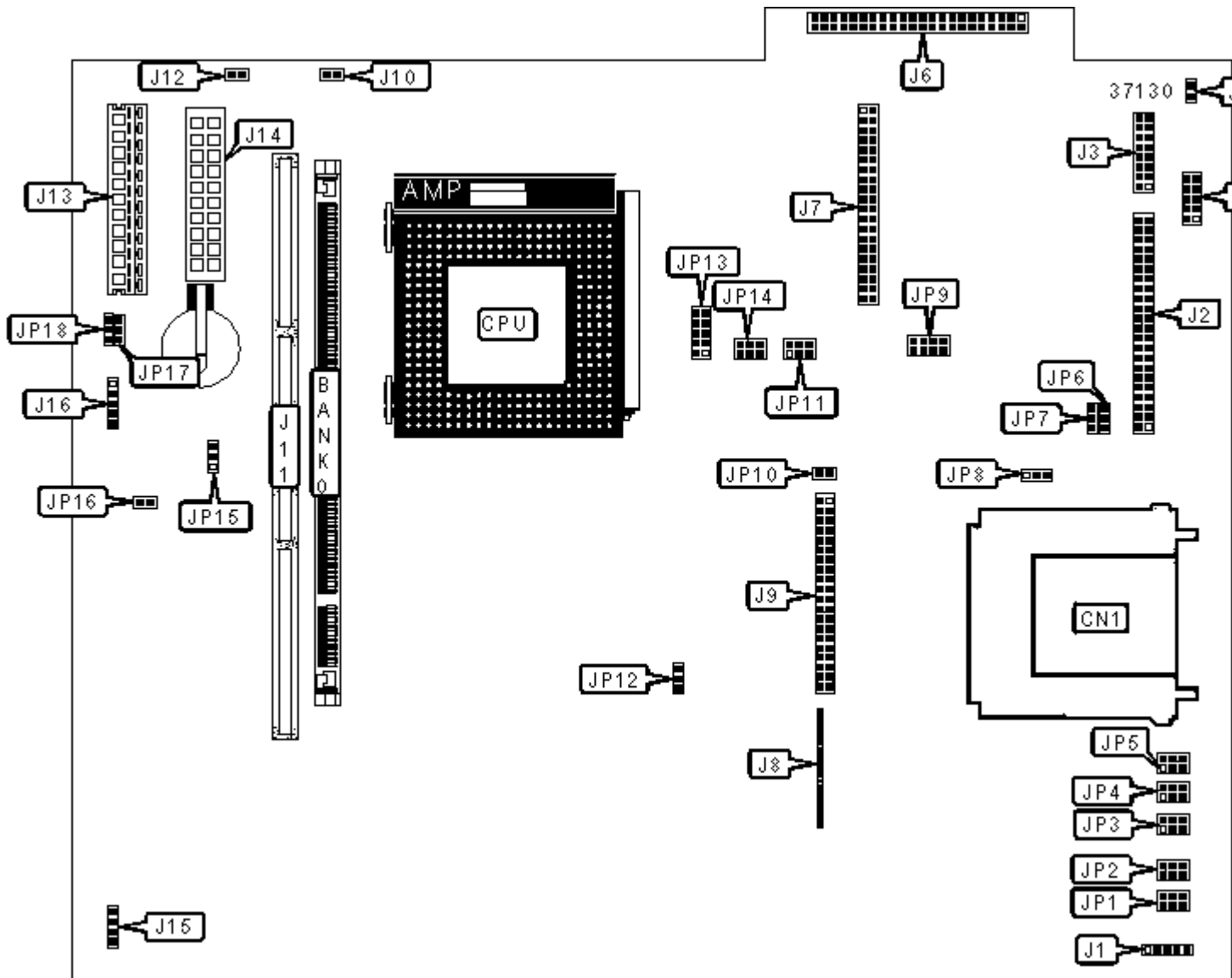
CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
PCMCIA connector	CN1	CD-ROM connector	J9
IR connector	J1	CPU fan power	J10
Flat panel display connector 1	J2	PCI/ISA slot	J11
Flat panel display connector 2	J3	Fan power	J12
Serial interface	J4	AT power connector	J13
Touchscreen power connector	J5	ATX power connector	J14
Scandisk SSD connector	J6	Speaker	J15
EIDE interface	J7	Power inverter connector	J16
Floppy drive interface	J8	Reset switch	JP16

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
»	Panel video signal level 5V	JP6	Pins 1 & 2 closed
	Panel video signal level 3.3V	JP6	Pins 2 & 3 closed
»	PCI bus clock setting to CPUCLK/2	JP8	Pins 1 & 2 closed
	PCI bus clock setting to 32MHz	JP8	Pins 2 & 3 closed
»	Cyrix linear mode disabled	JP10	Open
	Cyrix linear mode enabled	JP10	Closed
»	CMOS memory normal operation	JP12	Pins 1 & 2 closed
	CMOS memory clear	JP12	Pins 2 & 3 closed
»	Watchdog timer activates system reset upon CPU halt	JP15	Pins 1 & 2 closed
	Watchdog timer generates interrupt on IRQ15 upon CPU halt	JP15	Pins 2 & 3 closed
»	Factory configured - do not alter	JP17	Reserved
»	Factory configured - do not alter	JP18	Reserved

DIMM CONFIGURATION	
Size	**Bank 0**

8MB	(1) 1M x 64
16MB	(1) 2M x 64
32MB	(1) 4M x 64
64MB	(1) 8M x 64
128MB	(1) 16M x 64

CPU BUS SPEED SELECTION			
Speed	**JP11/Pins 1 & 2**	**JP11/Pins 3 & 4**	**JP11/Pins 5 & 6**
50MHz	Closed	Closed	Closed
55MHz	Closed	Closed	Open
60MHz	Open	Closed	Closed
66MHz	Closed	Open	Closed
75MHz	Open	Closed	Open

CPU MULTIPLIER SELECTION (AM K6)			
Multiplier	**JP14/Pins 1 & 2**	**JP14/Pins 3 & 4**	**JP14/Pins 5 & 6**
2x	Closed	Open	Open
2.5x	Closed	Closed	Open
3x	Open	Closed	Open
3.5x	Open	Open	Open
4x	Closed	Open	Closed
4.5x	Closed	Closed	Closed
5x	Open	Closed	Closed
5.5x	Open	Open	Closed

CPU MULTIPLIER SELECTION (PENTIUM)			
Multiplier	**JP14/Pins 1 & 2**	**JP14/Pins 3 & 4**	**JP14/Pins 5 & 6**
1.5x	Open	Open	Open
2x	Closed	Open	Open

2.5x	Closed	Closed	Open
3x	Open	Closed	Open

CPU MULTIPLIER SELECTION (PENTIUM MMX)			
Multiplier	JP14/Pins 1 & 2	JP14/Pins 3 & 4	JP14/Pins 5 & 6
2x	Closed	Open	Open
2.5x	Closed	Closed	Open
3x	Open	Closed	Open
3.5x	Open	Open	Open

CPU VOLTAGE SELECTION (DUAL)					
Voltage	JP13/Pins 1 & 2	JP13/Pins 3 & 4	JP13/Pins 5 & 6	JP13/Pins 7 & 8	JP13/Pins 9 & 10
None	Open	Open	Open	Open	Open
1.3V	Closed	Open	Open	Open	Open
1.35V	Closed	Open	Open	Open	Closed
1.4V	Closed	Open	Open	Closed	Open
1.45V	Closed	Open	Open	Closed	Closed
1.5V	Closed	Open	Closed	Open	Open
1.55V	Closed	Open	Closed	Open	Closed
1.6V	Closed	Open	Closed	Closed	Open
1.65V	Closed	Open	Closed	Closed	Closed
1.7V	Closed	Closed	Open	Open	Open
1.75V	Closed	Closed	Open	Open	Closed
1.8V	Closed	Closed	Open	Closed	Open
1.85V	Closed	Closed	Open	Closed	Closed
1.9V	Closed	Closed	Closed	Open	Open
1.95V	Closed	Closed	Closed	Open	Closed
2V	Closed	Closed	Closed	Closed	Open

Voltage	JP13/Pins 1 & 2	JP13/Pins 3 & 4	JP13/Pins 5 & 6	JP13/Pins 7 & 8	JP13/Pins 9 & 10
2.05V	Closed	Closed	Closed	Closed	Closed
2.1V	Open	Open	Open	Open	Closed
2.2V	Open	Open	Open	Closed	Open
2.3V	Open	Open	Open	Closed	Closed
2.4V	Open	Open	Closed	Open	Open
2.5V	Open	Open	Closed	Open	Closed
2.6V	Open	Open	Closed	Closed	Open
2.7V	Open	Open	Closed	Closed	Closed
2.8V	Open	Closed	Open	Open	Open
2.9V	Open	Closed	Open	Open	Closed
3V	Open	Closed	Open	Closed	Open
3.1V	Open	Closed	Open	Closed	Closed
3.2V	Open	Closed	Closed	Open	Open
3.4V	Open	Closed	Closed	Closed	Open

CPU VOLTAGE SELECTION (SINGLE)					
Voltage	JP13/Pins 1 & 2	JP13/Pins 3 & 4	JP13/Pins 5 & 6	JP13/Pins 7 & 8	JP13/Pins 9 & 10
3.3V	Open	Closed	Closed	Open	Closed
3.5V	Open	Closed	Closed	Closed	Closed

PANEL DISPLAY TYPE SELECTION				
Type, Resolution	JP9/Pins 1 & 2	JP9/Pins 3 & 4	JP9/Pins 5 & 6	JP9/Pins 7 & 8
DSTN, 1024 x 768	Closed	Closed	Closed	Closed
TFT, 1280 x 1024	Open	Closed	Closed	Closed
DSTN, 640 x 480	Closed	Open	Closed	Closed
DSTN, 800 x 600	Open	Open	Closed	Closed
Sharp TFT, 640 x 480	Closed	Closed	Open	Closed
18-bit TFT, 640 x 480	Open	Closed	Open	Closed

TFT, 1024 x 768	Closed	Open	Open	Closed
TFT, 800 x 600	Open	Open	Open	Closed
TFT(44K), 800 x 600	Closed	Closed	Closed	Open
TFT, 800 x 600	Open	Closed	Closed	Open
DSTN(44K), 800 x 600	Closed	Open	Closed	Open
DSTN, 800 x 600	Open	Open	Closed	Open
TFT(44K), 1024 x 768	Closed	Closed	Open	Open
DSTN(44K), 1280 x 1024	Open	Closed	Open	Open
TFT(44K), 1024 x 600	Closed	Open	Open	Open
TFT, 1024 x 600	Open	Open	Open	Open

COM 2 PORT SELECTION				
	Setting	JP3	JP4	JP5
»	RS-232	Pins 1 & 3, 2 & 4 closed	Pins 1 & 3, 2 & 4 closed	Pins 1 & 2 closed
	RS-422	Pins 3 & 5, 4 & 6 closed	Pins 3 & 5, 4 & 6 closed	Pins 3 & 4 closed
	RS-485	Pins 3 & 5, 4 & 6 closed	Pins 3 & 5, 4 & 6 closed	Pins 5 & 6 closed

COM 3 VOLTAGE SELECTION		
	Setting	JP1
»	RI	Pins 5 & 6 closed
	+5V	Pins 1 & 2 closed
	+12V	Pins 3 & 4 closed
Note: It is not recomended to change the default factory setting		

COM 4 VOLTAGE SELECTION	
Setting	JP2

»	RI	Pins 5 & 6 closed
	+5V	Pins 1 & 2 closed
	+12V	Pins 3 & 4 closed
Note: It is not recomended to change the default factory setting		