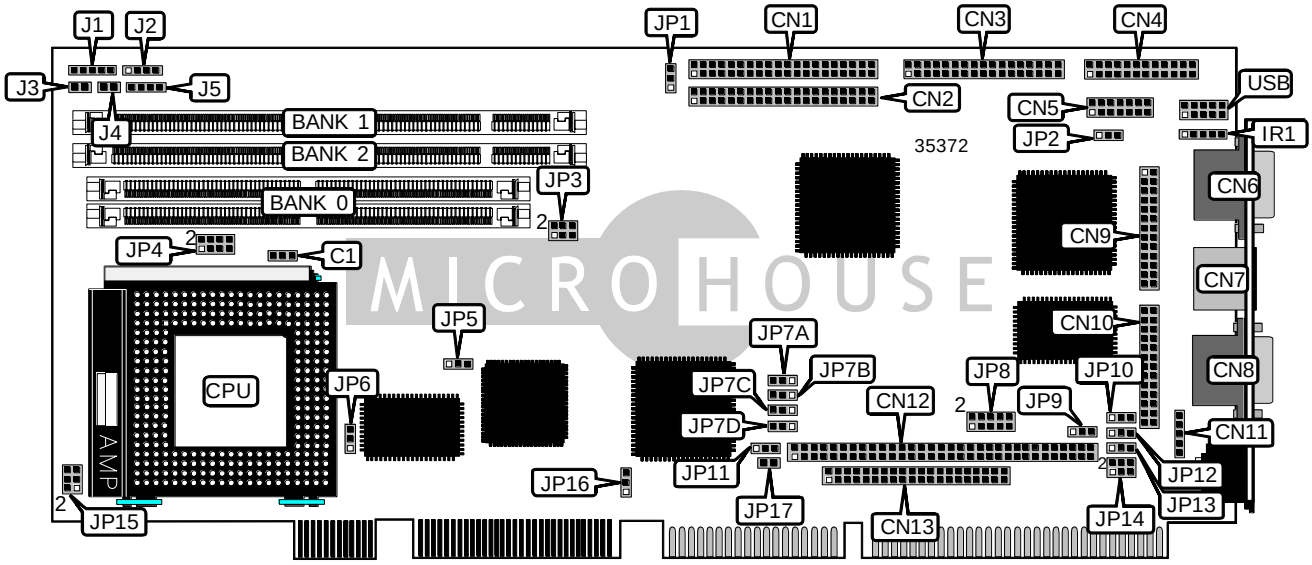
LANNER ELECTRONICS, INC.
A P - 5 6 0 E

Device Type	Single board computer
Processor	CX 6X86/CX 686MX/AM K5/AM K6/Pentium/Pentium MMX
Processor Speed	75/90/100/120/133/150/166/200/233MHz
Chip Set	VIA
Video Chip Set	Unidentified
Maximum Onboard Memory	256MB
Maximum Video Memory	Unidentified
Cache	512KB
BIOS	Award
Dimensions	338mm x 122mm
I/O Options	Ethernet 10Base100 connector, floppy drive interface, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, USB connector, PC/104 connectors (2)
NPU Options	None



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CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
Chassis fan power	C1	Auxiliary keyboard connector	CN10
IDE interface 1	CN1	PC/104 connector	CN11
IDE interface 2	CN2	PC/104 connector	CN12
Floppy drive interface	CN3	IR connector	IR1
Front panel connector	CN4	Power LED & keylock	J1
Ethernet 10Base100 connector	CN5	Speaker	J2
PS/2 mouse port	CN6	IDE interface LED	J3
Serial port 1	CN7	Green PC LED	J4
Parallel port	CN8	USB connector	USB
Serial port 2	CN9		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
í Factory configured - do not alter	JP1	Pins 1 & 2 closed
í Factory configured - do not alter	J5	Unidentified
í Flat panel voltage select 5v	JP2	Pins 1 & 2 closed
Flat panel voltage select 3.3v	JP2	Pins 2 & 3 closed
í CMOS memory normal operation	JP5	Pins 1 & 2 closed
CMOS memory clear	JP5	Pins 2 & 3 closed
í Factory configured - do not alter	JP11	Pins 1 & 2 closed
í Factory configured - do not alter	JP16	Pins 1 & 2 closed
í Factory configured - do not alter	JP17	Unidentified

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
128MB	(2) 16M x 36
256MB	(2) 32M x 36

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DIMM CONFIGURATION		
Size	**Bank 1**	**Bank 2**
8MB	(1) 1M x 64	None
16MB	(1) 2M x 64	None
16MB	(1) 1M x 64	(1) 1M x 64
24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None
32MB	(1) 2M x 64	(1) 2M x 64
40MB	(1) 4M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64
64MB	(1) 8M x 64	None
64MB	(1) 4M x 64	(1) 4M x 64
72MB	(1) 8M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64
128MB	(1) 16M x 64	None
128MB	(1) 8M x 64	(1) 8M x 64
136MB	(1) 16M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64

CACHE CONFIGURATION
Note: 512KB cache is factory installed and is not configurable. The location is unidentified.

VIDEO MEMORY CONFIGURATION
Note: The size and location is unidentified.

CPU SPEED SELECTION (CX 6X86)				
CPU speed	**Clock speed**	**Multiplier**	**JP3**	**JP15**
120MHz	50MHz	2x	1 & 2, 3 & 4, 5 & 6	1 & 2
150MHz	60MHz	2x	1 & 2	1 & 2
166MHz	66MHz	2x	Open	1 & 2
Note: Pins designated should be in the closed position.				

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CPU SPEED SELECTION (CX 6X86MX)				
CPU speed	**Clock speed**	**Multiplier**	**JP3**	**JP15**
166MHz	66MHz	2x	Open	1 & 2
200MHz	66MHz	2x	Open	1 & 2
233MHz	75MHz	2x	3 & 4, 5 & 6	1 & 2
Note: Pins designated should be in the closed position.				

CPU SPEED SELECTION (AM K5)				
CPU speed	**Clock speed**	**Multiplier**	**JP3**	**JP15**
75MHz	50MHz	1.5x	1 & 2, 3 & 4, 5 & 6	Open
90MHz	60MHz	1.5x	1 & 2	Open
100MHz	66MHz	1.5x	Open	Open
120MHz	60MHz	2x	1 & 2	1 & 2
133MHz	66MHz	2x	Open	1 & 2
150MHz	60MHz	2.5x	1 & 2	1 & 2, 3 & 4
166MHz	66MHz	2.5x	Open	1 & 2, 3 & 4
Note: Pins designated should be in the closed position.				

CPU SPEED SELECTION (AM K6)				
CPU speed	**Clock speed**	**Multiplier**	**JP3**	**JP15**
166MHz	66MHz	2.5x	Open	1 & 2, 3 & 4
200MHz	66MHz	3x	Open	3 & 4
233MHz	66MHz	3.5x	Open	Open
Note: Pins designated should be in the closed position.				

CPU SPEED SELECTION (INTEL)				
CPU speed	**Clock speed**	**Multiplier**	**JP3**	**JP15**
75MHz	50MHz	1.5x	1 & 2, 3 & 4, 5 & 6	Open
90MHz	60MHz	1.5x	1 & 2	Open
100MHz	66MHz	1.5x	Open	Open
120MHz	60MHz	2x	1 & 2	1 & 2
133MHz	66MHz	2x	Open	1 & 2
150MHz	60MHz	2.5x	1 & 2	1 & 2, 3 & 4
166MHz	66MHz	2.5x	Open	1 & 2, 3 & 4
200MHz	66MHz	3x	Open	3 & 4
Note: Pins designated should be in the closed position.				

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CPU SPEED SELECTION (INTEL MMX)				
CPU speed	**Clock speed**	**Multiplier**	**JP3**	**JP15**
166MHz	66MHz	2.5x	Open	1 & 2, 3 & 4
200MHz	66MHz	3x	Open	3 & 4
233MHz	66MHz	3.5x	Open	Open
Note: Pins designated should be in the closed position.				

CPU TYPE SELECTION	
Type	**JP6**
í Single voltage	Pins 2 & 3 closed
í Dual voltage	Pins 1 & 2 closed

CPU VOLTAGE SELECTION	
Voltage	**JP4**
2.0v	Open
2.1v	Pins 1 & 2 closed
2.2v	Pins 3 & 4 closed
2.3v	Pins 1 & 2, 3 & 4 closed
2.4v	Pins 5 & 6 closed
2.5v	Pins 1 & 2, 5 & 6 closed
2.6v	Pins 3 & 4, 5 & 6 closed
2.7v	Pins 1 & 2, 3 & 4, 5 & 6 closed
í 2.8v	Pins 7 & 8 closed
2.9v	Pins 1 & 2, 7 & 8 closed
3.0v	Pins 3 & 4, 7 & 8 closed
3.1v	Pins 1 & 2, 3 & 4, 7 & 8 closed
3.2v	Pins 5 & 6, 7 & 8 closed
3.3v	Pins 1 & 2, 5 & 6, 7 & 8 closed
3.4v	Pins 3 & 4, 5 & 6, 7 & 8 closed
3.5v	Pins 1 & 2, 3 & 4, 5 & 6, 7 & 8 closed

SERIAL PORT 2 SELECTION					
Type	**JP9**	**JP10**	**JP12**	**JP13**	**JP14**
í RS-232	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
RS-422	2 & 3	2 & 3	2 & 3	2 & 3	3 & 4
RS-485	2 & 3	2 & 3	2 & 3	2 & 3	5 & 6
Note: Pins designated should be in the closed position.					

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FLASH BIOS ADDRESS SELECTION	
Address	**JP8**
D000	Pins 3 & 4, 7 & 8 closed
D400	Pins 3 & 4, 9 & 10 closed
D800	Pins 5 & 6, 7 & 8 closed
DC00	Pins 5 & 6, 9 & 10 closed

WATCH DOG TIMER SELECTION				
Seconds	**JP7A**	**JP7B**	**JP7C**	**JP7D**
.5	Pins 1 & 2 closed	Open	Open	Open
1	Open	Pins 1 & 2 closed	Open	Open
2	Open	Open	Pins 1 & 2 closed	Open
4	Open	Open	Open	Pins 1 & 2 closed
8	Open	Open	Open	Pins 2 & 3 closed
16	Open	Open	Pins 2 & 3 closed	Open
32	Open	Pins 2 & 3 closed	Open	Open
64	Pins 2 & 3 closed	Open	Open	Open