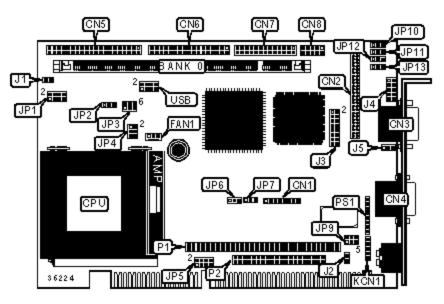
## LANNER ELECTRONICS, INC.

## AP-545L

Device Type Processor Processor Speed Chip Set Video Chip Set Maximum Onboard Memory Maximum Video Memory Video Resolution Cache BIOS Dimensions I/O Options Single board computer CX 6X86/CX MII/AM K5/AM K6/Pentium/Pentium MMX 75/90/100/120/133/150/166/200/233MHz SIS 5582 SMI 128MB (SDRAM supported) 2MB 1280 x 1024 512KB AMI 185mm x 122mm Floppy drive interface, IDE interface, parallel port, PS/2 mouse port, serial ports (2), VGA port, LCD panel connector, USB interface (2), PC/104 connectors (2)



CONNECTIONS				
Purpose	Location	Purpose	Location	
Program ISP GAL connector	CN1	IDE interface LED	J1	
LCD panel connector	CN2	Reset switch	J2	
Serial port 1	CN3	VGA port 2	J4	
VGA port 1	CN4	Power LED connector	J5	
IDE interface	CN5	Auxiliary keyboard connector	KCN1	
Floppy drive interface	CN6	PC/104 connector	P1	
Parallel port	CN7	PC/104 connector	P2	
Serial port 2	CN8	Power connector	PS1	
CPU fan connector	FAN1	USB connector (ports 1 & 2)	USB	

	USER CONFIGURABLE SETTINGS				
	Function Label Position				
»	On board video enabled	JP2	Pins 2 & 3 closed		
	On board video disabled	JP2	Pins 1 & 2 closed		
»	TFT LCD display enabled	J3	Pins 1 & 2 closed		
	STN LCD display enabled	J3	Pins 1 & 2 open		
»	XCLK enabled	J3	Pins 3 & 4 closed		
	XCLKN enabled	J3	Pins 3 & 4 open		

SIMM CONFIGURATION				
Size Bank 0				
8MB	(1) 1M x 64			
16MB (1) 2M x 6				
32MB	(1) 4M x 64			
64MB	(1) 8M x 64			
128MB (1) 16M x 64				
Note: Board accepts SDRAM memory.				

## CACHE CONFIGURATION

Note: The location of the cache is unidentified.

CPU SPEED SELECTION (CX 6X86)				
CPU speed Clock speed Multiplier JP3 JP4				
120MHz	50MHz	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.					

CPU SPEED SELECTION (CX MII)						
CPU speed Clock speed Multiplier JP3 JP4						
200MHz	3 & 4					
200MHz	1 & 2, 3 & 4					
233MHz 66MHz 3x Open 3 & 4						
233MHz 75MHz 2.5x 3 & 4, 5 & 6 1 & 2, 3 & 4						
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (AM K5)						
CPU speed Clock speed Multiplier JP3 JP4						
75MHz	75MHz 50MHz 1.5x 1 & 2, 3 & 4, 5 & 6					
90MHz	60MHz	1.5x	1 & 2	Open		
100MHz	66MHz	1.5x	Open	Open		
120MHz 60MHz 2x 1 & 2						
133MHz 66MHz 2x Open 1 & 2						
166MHz 66MHz 2.5x Open 1 & 2, 3 & 4						
Note: Pins designated	Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (AM K6)						
CPU speed Clock speed Multiplier JP3 JP4						
166MHz	66MHz	2.5x	Open	1 & 2, 3 & 4		
200MHz 66MHz 3x Open 3 & 4						
233MHz 66MHz 3.5x Open Open						
Note <sup>.</sup> Pins des	Note: Pins designated should be in the closed position					

CPU SPEED SELECTION (INTEL)					
CPU speed	CPU speed Clock speed Multiplier JP3				
75MHz	50MHz	1.5x	1.5x 1 & 2, 3 & 4, 5 & 6		
90MHz	60MHz	1.5x	1 & 2	Open	
100MHz	66MHz	1.5x	Open	Open	
120MHz	60MHz	2x	1 & 2	1 & 2	
133MHz	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.					

CPU SPEED SELECTION (INTEL MMX)						
CPU speed Clock speed Multiplier JP3 JP4						
166MHz 66MHz 2.5x Open 1 & 2, 3 & 4						
200MHz 66MHz 3x Open 3 &						
233MHz 66MHz 3.5x Open Open						
Note: Pins designated should be in the closed position.						

	SERIAL PORT 4 SELECTION							
	Setting JP9 JP10 JP11 JP12 JP13							
»	RS-232	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2		
	RS-422	3 & 4	2 & 3	2 & 3	2 & 3	2 & 3		
	RS-485	5 & 6	2 & 3	2 & 3	2 & 3	2 & 3		

Note: Pins designated should be in the closed position.

	VIDEO RESOLUTION SELECTION						
	Setting J3/Pins 5 & 6 J3/Pins 7 & 8						
»	640 x 480	Closed	Closed				
	800 x 600	Open	Closed				
	1024 x 768	Closed	Open				
	1280 x 1024	Open	Open				

В	BIT SIZE SELECTION (TFT LCD DISPLAY)				
Setting	J3/Pins 9 & 10	J3/Pins 11 & 12	J3/Pins 13 & 14		
9 bit	Closed	Closed	Closed		
12 bit	Open	Closed	Closed		
18 bit	Closed	Open	Closed		
24 bit	Open	Open	Closed		
12 x 2 bit	Closed	Closed	Open		
Analog	Open	Closed	Open		
18 x 2 bit	Closed	Open	Open		

BIT SIZE SELECTION (STN LCD DISPLAY)		
Setting	J3	
16 bit	Closed	
24 bit	Open	

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ISP GAL SELECTION			
Setting		JP6	JP7
»	Watchdog enabled	Pins 2 & 3	Pins 2 & 3

BIOS ADDRESS SELECTION		
Address	JP5	
D0000	Pins 1 & 2, 5 & 6 closed	
D4000	Pins 3 & 4, 7 & 8 closed	
D8000	Pins 3 & 4, 5 & 6 closed	
DC000	Pins 3 & 4, 7 & 8 closed	

	CPU VOLTAGE SELECTION				
Voltage		JP1			
	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			
»	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			