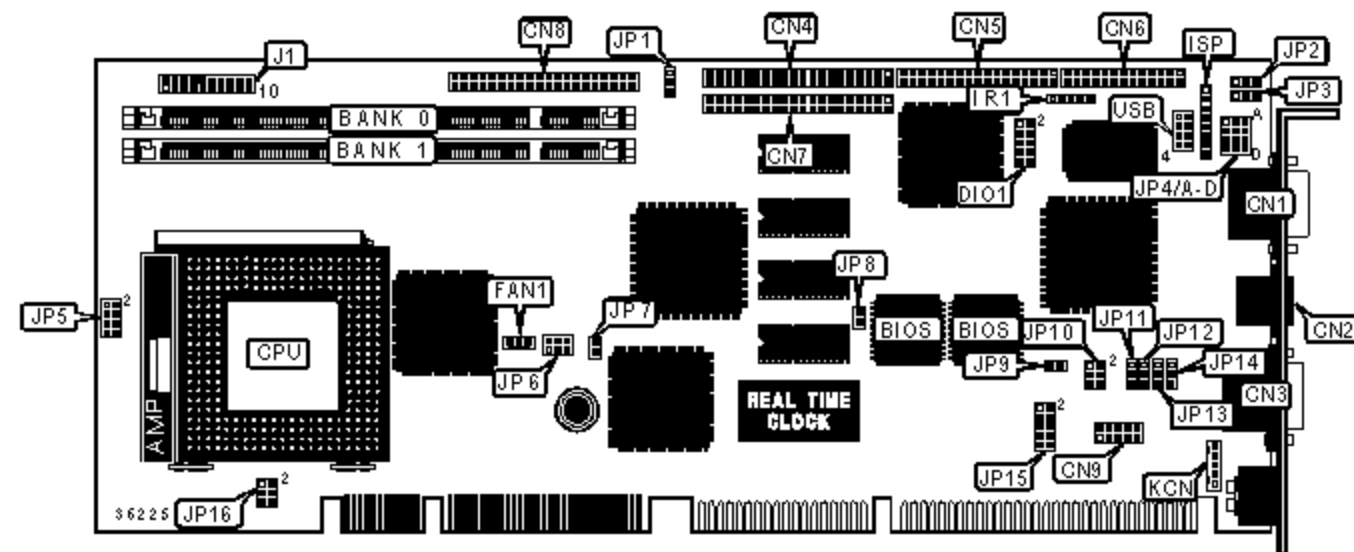


LANNER ELECTRONICS, INC.

AP-570TX

Device Type	Single board computer
Processor	CX 6X86/CX 6X86L/CX MII/AM K5/AM K6/AM-K6-2
Processor Speed	75/90/100/120/133/150/166/200/233MHz
Chip Set	Intel 430TX
Video Chip Set	S3
Video Types Supported	VGA
Highest Resolution Supported	1024 x 768
Maximum Onboard Memory	256MB
Maximum Video Memory	2MB
Network Transfer Rate	100Mbps
Topology	Star
Wiring Type	Unshielded twisted pair
Cache	512KB
BIOS	Award
Dimensions	338mm x 122mm
I/O Options	Floppy drive interface, SCSI interface, IDE interfaces (2), green PC connector, parallel port, PS/2 mouse port, serial ports (2), VGA port, IR connector, USB connector, RJ-45 port



CONNECTIONS

Purpose	Location	Purpose	Location
VGA port	CN1	Chassis fan power	FAN1
Ethernet interface via RJ-45 connector	CN2	IR connector	IR1
Serial port 1	CN3	ISP GAL connector	ISP
IDE interface 1	CN4	Power LED & keylock	J1/pins 1-6
Floppy drive interface	CN5	Speaker	J1/pins 7-10
Parallel port	CN6	Reset switch	J1/pins 11-14
IDE interface 2	CN7	SML switch	J1/pins 15-18
SCSI interface	CN8	IDE interface LED	J1/pins 19.

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Serial port 2	CN9	Auxiliary keyboard connector	KCN
Digital input/output connector	DIO1	USB connector (ports 1 & 2)	USB

USER CONFIGURABLE SETTINGS

Function		Label	Position
»	Factory configured - do not alter	JP1	Unidentified
»	On board video enabled	JP7	Closed
	On board video disabled	JP7	Open
»	CMOS memory normal operation	JP8	Open
	CMOS memory clear	JP8	Closed
»	Hardware Watchdog system enabled	JP9	Closed
	Software Watchdog system enabled	JP9	Open

DIMM CONFIGURATION

Size	Bank 0	Bank 1
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: The location of the cache is unidentified.

VIDEO MEMORY CONFIGURATION

Note: The location of the video memory is unidentified.

CPU SPEED SELECTION (CX 6X86)

CPU speed	Clock speed	Multiplier	JP6	JP16
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.

CPU SPEED SELECTION (CX MII)

CPU speed	Clock speed	Multiplier	JP6	JP16
166MHz	66MHz	2x	Open	1 & 2
166MHz	60MHz	2.5x	1 & 2	1 & 2, 3 & 4

200MHz	75MHz	2x	3 & 4, 5 & 6	1 & 2
200MHz	66MHz	2.5x	Open	1 & 2, 3 & 4
233MHz	83MHz	2x	1 & 2, 5 & 6	1 & 2
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	JP6	JP16
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	JP6	JP16
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	JP6	JP16
75MHz	50MHz	1.5x	1 & 2, 3 & 4, 5 & 6	Open

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.

ISP GAL SELECTION

Setting		JP2	JP3
»	Watchdog enabled	Pins 1 & 2 closed	Pins 1 & 2 closed
	Program ISP GAL	Pins 2 & 3 closed	Pins 2 & 3 closed

WATCHDOG TIME OUT SELECTION

Seconds	JP4/A	JP4/B	JP4/C	JP4/D
.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
16	Open	Open	Pins 2 & 3 closed	Open
32	Open	Pins 2 & 3 closed	Open	Open
64	Pins 2 & 3 closed	Open	Open	Open

SERIAL PORT 2 TYPE SELECTION

Setting	JP10	JP511	JP12	JP13	JP14
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»	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.

BIOS ADDRESS SELECTION

Address	JP15
C8000	Pins 1 & 2, 7 & 8 closed
CC000	Pins 1 & 2, 9 & 10 closed
D0000	Pins 3 & 4, 7 & 8 closed
D4000	Pins 3 & 4, 9 & 10 closed
D8000	Pins 5 & 6, 7 & 8 closed
DC000	Pins 5 & 6, 9 & 10 closed

CPU VOLTAGE SELECTION

Voltage	JP5
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
	3.5v	Pins 1 & 2, 3 & 4, 5 & 6, 7 & 8 closed