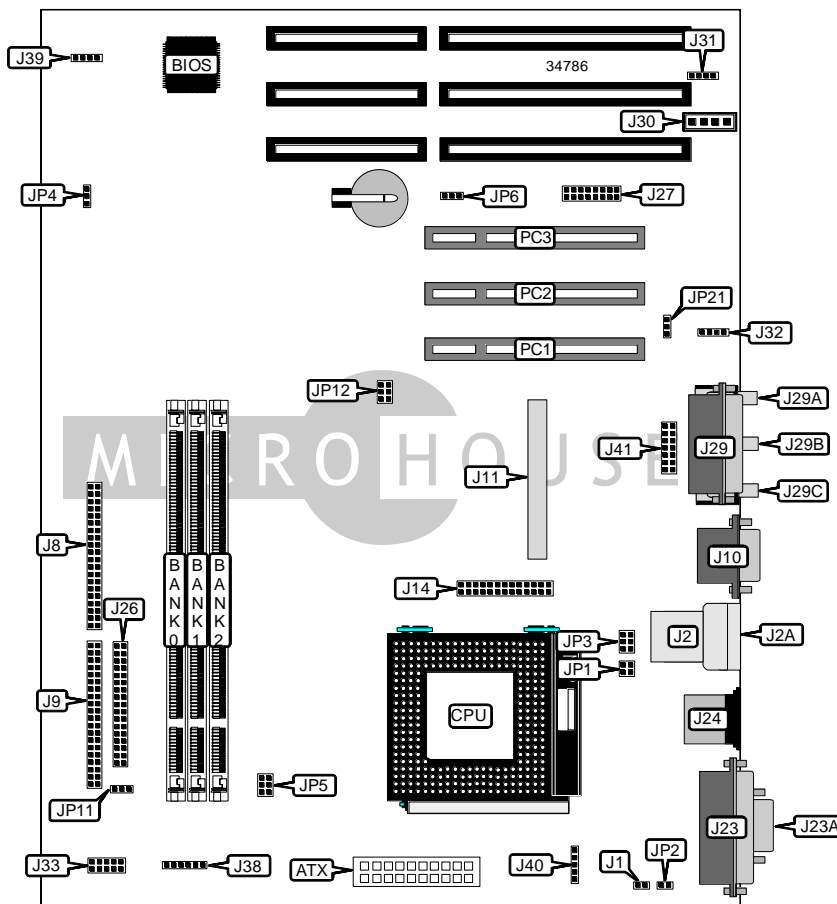


IBM CORPORATION

APTIVA 2142 TYPE A-1

Device Type	Mainboard
Processor	Pentium
Processor Speed	166/200/233MHz
Chip Set	Unidentified
Video Chip Set	Trident
Maximum Onboard Memory	384MB (SDRAM supported)
Maximum Video Memory	4MB (SGRAM supported)
Cache	512KB
BIOS	Unidentified
Dimensions	305mm x 244mm
I/O Options	32-bit PCI slots (3), floppy drive interface, game/MIDI port, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), VGA feature connector, VGA port, IR connector, USB connectors (2), ATX power connector, line in, line out, microphone in, audio in – CD/DVD-ROM
NPU Options	None



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CONNECTIONS			
Purpose	Location	Purpose	Location
ATX power connector	ATX	AC-3 connector	J27
Chassis fan power	J1	Game/MIDI port	J29
USB connector 1	J2	Line out	J29A
USB connector 2	J2A	Line in	J29B
VGA interface	J3	Microphone in	J29C
IDE interface 1	J8	Audio in – CD/DVD-ROM	J30
IDE interface 2	J9	TV in connector	J31
VGA port	J10	Modem audio in	J32
VGA feature connector	J14	Media console connector	J33
Parallel port	J23	Power, power LED, IDE LED	J38
Serial port 1	J23A	Speaker	J39
PS/2 mouse port	J24	Audio amplifier connector	J41
Floppy drive interface	J26	32-bit PCI slots	PC1 – PC3
Note: The location of J3 is unidentified.			

USER CONFIGURABLE SETTINGS		
Function	Label	Position
í Factory configured - do not alter	J40	Unidentified
í Factory configured - do not alter	JP1	Pins 1 & 3, 2 & 4 closed
í Factory configured - do not alter	JP2	Closed
í On board video enabled	JP4	Pins 1 & 2 closed
On board video disabled	JP4	Pins 2 & 3 closed
VGA INTA# select	JP5	Pins 1 & 3, 2 & 4 closed
í CMOS memory normal operation	JP6	Pins 1 & 2 closed
CMOS memory clear	JP6	Pins 2 & 3 closed
Floppy drive write enabled	JP11	Pins 1 & 2 closed
Floppy drive write disabled	JP11	Pins 2 & 3 closed
CS4610 interrupt select	JP21	Pins 1 & 2 closed

DIMM CONFIGURATION			
Size	Bank 0	Bank 1	Bank 2
8MB	(1) 1M x 64	None	None
16MB	(1) 2M x 64	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None
24MB	(1) 2M x 64	(1) 1M x 64	None

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DIMM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 1	Bank 2
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64	None
40MB	(1) 4M x 64	(1) 1M x 64	None
40MB	(1) 2M x 64	(1) 2M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 1M x 64	(1) 1M x 64
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
56MB	(1) 4M x 64	(1) 2M x 64	(1) 1M x 64
64MB	(1) 8M x 64	None	None
64MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64	None
72MB	(1) 8M x 64	(1) 1M x 64	None
72MB	(1) 4M x 64	(1) 4M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 1M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64	None
80MB	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64	None
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
112MB	(1) 8M x 64	(1) 4M x 64	(1) 2M x 64
128MB	(1) 16M x 64	None	None
128MB	(1) 8M x 64	(1) 8M x 64	None
136MB	(1) 8M x 64	(1) 8M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64	None
144MB	(1) 8M x 64	(1) 8M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64	None
160MB	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64
168MB	(1) 16M x 64	(1) 4M x 64	(1) 1M x 64
192MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
200MB	(1) 16M x 64	(1) 8M x 64	(1) 1M x 64
208MB	(1) 16M x 64	(1) 8M x 64	(1) 2M x 64
224MB	(1) 16M x 64	(1) 8M x 64	(1) 4M x 64
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64

Note: Board accepts SDRAM memory.

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CACHE CONFIGURATION

Note: 512KB cache is factory installed and is not configurable.

VIDEO MEMORY CONFIGURATION

Note: To increase video memory from 2MB to 4MB, install upgrade in J11.

CPU SPEED SELECTION

CPU speed	Clock speed	Multiplier	JP3	JP12
166MHz	66MHz	2.5x	1 & 3, 2 & 4	1 & 2, 3 & 4
200MHz	66MHz	3x	2 & 4, 3 & 5	1 & 2, 3 & 4
233MHz	66MHz	3.5x	3 & 5, 4 & 6	1 & 2, 3 & 4

Note: Pins designated should be in the closed position.