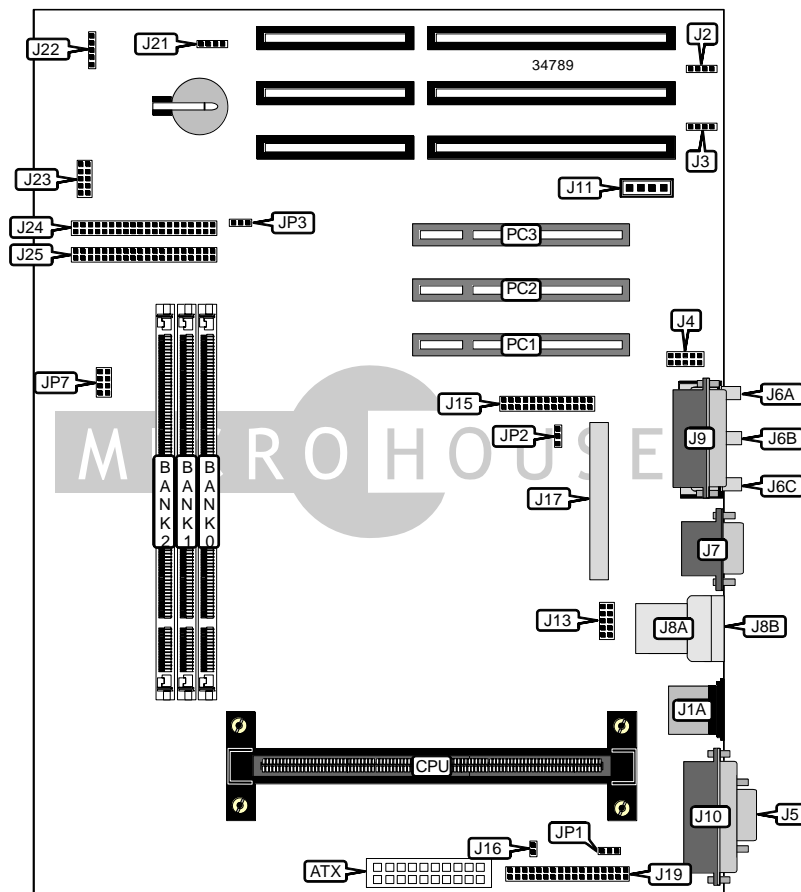


IBM CORPORATION APTIVA 2142 TYPE A-2

Device Type	Mainboard
Processor	Pentium II
Processor Speed	233/266MHz
Chip Set	Unidentified
Video Chip Set	ATI
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 port, VGA feature connector, VGA port, USB connectors (2), ATX power connector, line in, line out, microphone in, audio in – CD/DVD-ROM
NPU Options	None



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IBM CORPORATION
 APTIVA 2142 TYPE A-2

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CONNECTIONS			
Purpose	Location	Purpose	Location
ATX power connector	ATX	Parallel port	J10
PS/2 mouse port	J1A	Audio in – CD/DVD-ROM	J11
Modem audio in	J2	TV out connector	J13
TV audio in	J3	AC-3 connector	J14
Audio amplifier connector	J4	VGA feature connector	J15
Serial port 1	J5	Chassis fan power	J16
Line out	J6A	Floppy drive interface	J19
Line in	J6B	Power, power LED, IDE LED	J22
Microphone in	J6C	Media console connector	J23
VGA port	J7	IDE interface 2	J24
USB connector 1	J8A	IDE interface 1	J25
USB connector 2	J8B	32-bit PCI slots	PC1 – PC3
Game/MIDI port	J9		
Note: The location of J14 is unidentified.			

USER CONFIGURABLE SETTINGS		
Function	Label	Position
On board buzzer enabled	J21	Pins 1 & 2 closed
On board buzzer disabled	J21	Pins 2 & 3 closed
Floppy drive write enabled	JP1	Pins 1 & 2 closed
Floppy drive write disabled	JP1	Pins 2 & 3 closed
On board video enabled	JP2	Pins 2 & 3 closed
On board video disabled	JP2	Pins 1 & 2 closed
CMOS memory normal operation	JP3	Pins 2 & 3 closed
CMOS memory clear	JP3	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
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

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IBM CORPORATION
 APTIVA 2142 TYPE A-2

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DIMM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 1	Bank 2
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) 16M x 64	(1) 1M 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
152MB	(1) 16M x 64	(1) 2M x 64	(1) 1M 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
176MB	(1) 16M x 64	(1) 4M x 64	(1) 2M x 64
192MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64	None
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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IBM CORPORATION
APTIVA 2142 TYPE A-2

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CACHE CONFIGURATION

Note: 512KB cache is located on the Pentium II CPU.

VIDEO MEMORY CONFIGURATION

Note: To increase video memory from 2MB to 4MB, install upgrade in J17.

CPU SPEED SELECTION

CPU speed	Clock speed	Multiplier	JP7
233MHz	66MHz	3.5x	Pins 1 & 2, 5 & 6 closed
266MHz	66MHz	4x	Pins 1 & 2, 3 & 4, 7 & 8 closed