IBM CORPORATION

PC 330-486, PC 350-486

Configuration

BANK 3
BANK 2
BANK 1
BANK 0

J27
CN2
CN1

J14

JP14
JP15 — J15

TAG

B
A
N
K
0

CACHE

B
A
N
K
1

MB451

J13

JP13
J16

JP11
JP12

SL2
SL1
JP9 — JP8

J17
J38
JP10
JP7
VRM
JP3
CPU
AMP
JP4
J23
J24

JP5

WP
JP2
J30
J29
J7
J9
J10

J6
J5
J4
J3
J2

J36
J35 — J37

LOCATION UNIDENTIFIED
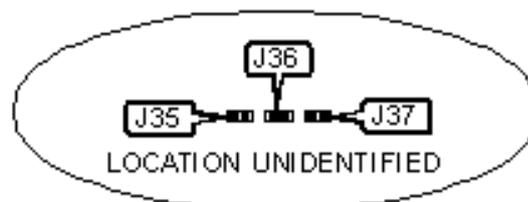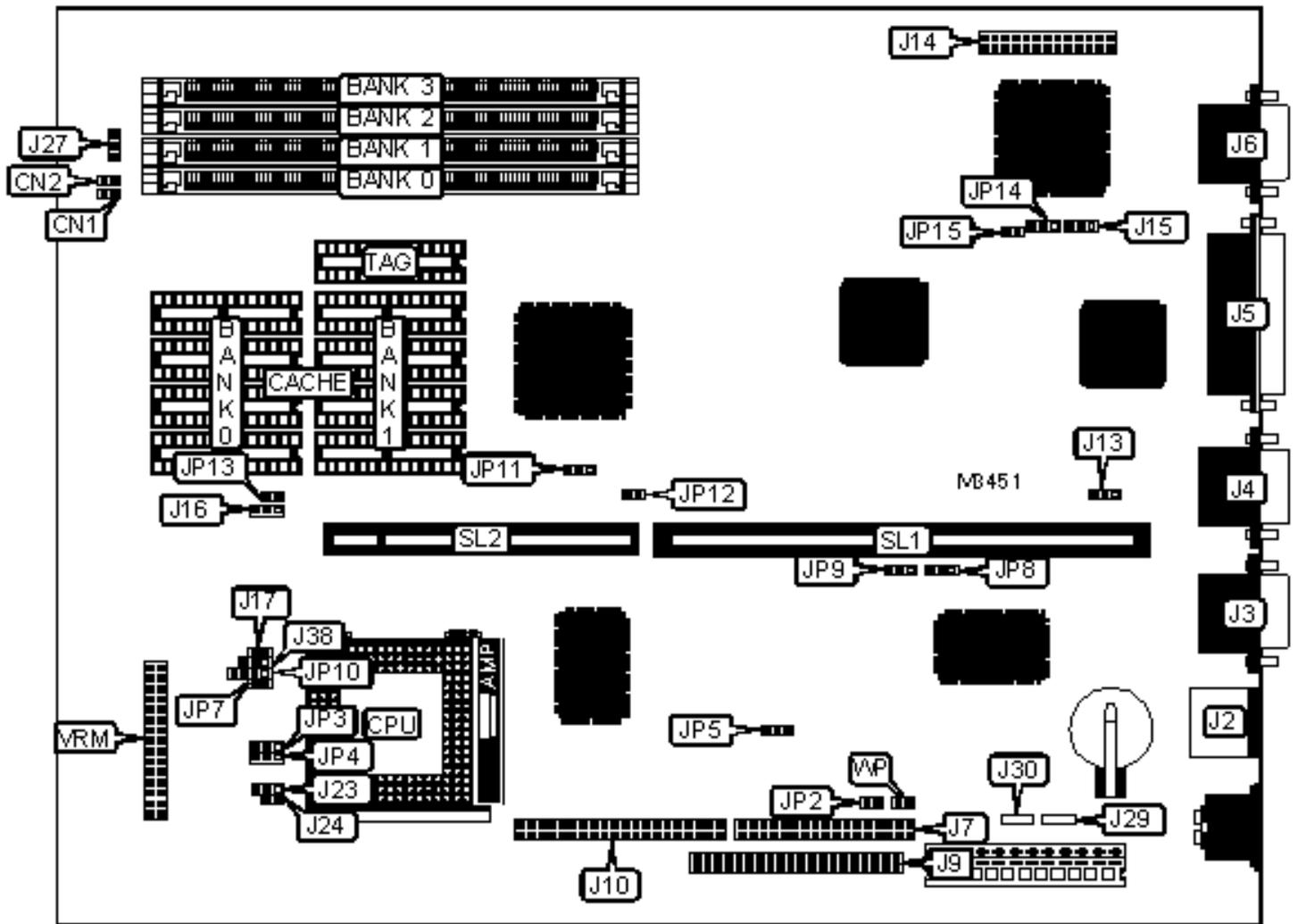
CONNECTIONS

Purpose	Location	Purpose	Location
Power LED	CN1	IDE interface 2	J10
IDE interface LED	CN2	VESA feature connector	J14
PS/2 mouse port	J2	Speaker	J27
Serial port 1	J3	On/off switch connector	J29
Serial port 2	J4	On/off switch power supply connector	J30
Parallel port	J5	Riser slot	SL1
VGA port	J6	32-bit VESA/PCI local bus slot	SL2
Floppy drive interface	J7	VRM connector	VRM
IDE interface 1	J9		

USER CONFIGURABLE SETTINGS

	Function	Label	Position
»	Flash BIOS write protect disabled	J13	Pins 2 & 3 closed
	Flash BIOS write protect enabled	J13	Pins 1 & 2 closed
»	On board video enabled	J15	Pins 1 & 2 closed
	On board video disabled	J15	Pins 2 & 3 closed
»	Factory configured - do not alter	JP2	Unidentified
»	Modem answers on ring	JP5	Pins 2 & 3 closed
	Modem does not answer on ring	JP5	Pins 1 & 2 closed
»	Factory configured - do not alter	JP11	Unidentified
»	PS/2 mouse enabled	JP12	Closed
	PS/2 mouse disabled	JP12	Open
»	CMOS memory normal operation	JP14	Pins 1 & 2 closed
	CMOS memory clear	JP14	Pins 2 & 3 closed

»	VGA IRQ9 enabled	JP15	Closed
	VGA IRQ9 disabled	JP15	Open
»	Floppy drive write protect disabled	WP	Open
	Floppy drive write protect enabled	WP	Closed

DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
4MB	(1) 1M x 32	None	None	None
8MB	(1) 1M x 32	(1) 1M x 32	None	None
8MB	(1) 2M x 32	None	None	None
12MB	(1) 1M x 32	(1) 1M x 32	(1) 1M x 32	None
12MB	(1) 1M x 32	(1) 2M x 32	None	None
16MB	(1) 4M x 32	None	None	None
16MB	(1) 1M x 32	(1) 1M x 32	(1) 2M x 32	None
16MB	(1) 2M x 32	(1) 2M x 32	None	None
16MB	(1) 1M x 32	(1) 1M x 32	(1) 1M x 32	(1) 1M x 32
20MB	(1) 1M x 32	(1) 2M x 32	(1) 2M x 32	None
20MB	(1) 1M x 32	(1) 4M x 32	None	None

DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
24MB	(1) 2M x 32	(1) 2M x 32	(1) 2M x 32	None
24MB	(1) 1M x 32	(1) 1M x 32	(1) 2M x 32	(1) 2M x 32
24MB	(1) 1M x 32	(1) 1M x 32	(1) 4M x 32	None
28MB	(1) 1M x 32	(1) 2M x 32	(1) 2M x 32	(1) 2M x 32
28MB	(1) 1M x 32	(1) 1M x 32	(1) 4M x 32	(1) 1M x 32

32MB	(1) 4M x 32	(1) 4M x 32	None	None
32MB	(1) 8M x 32	None	None	None
32MB	(1) 2M x 32	(1) 2M x 32	(1) 4M x 32	None
32MB	(1) 2M x 32	(1) 2M x 32	(1) 2M x 32	(1) 2M x 32
36MB	(1) 1M x 32	(1) 4M x 32	(1) 4M x 32	None
40MB	(1) 1M x 32	(1) 1M x 32	(1) 8M x 32	None
40MB	(1) 1M x 32	(1) 1M x 32	(1) 4M x 32	(1) 4M x 32
48MB	(1) 4M x 32	(1) 4M x 32	(1) 4M x 32	None
48MB	(1) 2M x 32	(1) 2M x 32	(1) 8M x 32	None
48MB	(1) 2M x 32	(1) 2M x 32	(1) 4M x 32	(1) 4M x 32
52MB	(1) 1M x 32	(1) 4M x 32	(1) 4M x 32	(1) 4M x 32
64MB	(1) 8M x 32	(1) 8M x 32	None	None
64MB	(1) 4M x 32	(1) 4M x 32	(1) 8M x 32	None
64MB	(1) 4M x 32	(1) 4M x 32	(1) 4M x 32	(1) 4M x 32
68MB	(1) 1M x 32	(1) 8M x 32	(1) 4M x 32	(1) 4M x 32
72MB	(1) 1M x 32	(1) 1M x 32	(1) 8M x 32	(1) 8M x 32
80MB	(1) 2M x 32	(1) 2M x 32	(1) 8M x 32	(1) 8M x 32
84MB	(1) 1M x 32	(1) 8M x 32	(1) 8M x 32	(1) 4M x 32
96MB	(1) 8M x 32	(1) 8M x 32	(1) 8M x 32	None
96MB	(1) 4M x 32	(1) 4M x 32	(1) 8M x 32	(1) 8M x 32
100MB	(1) 1M x 32	(1) 8M x 32	(1) 8M x 32	(1) 8M x 32
128MB	(1) 8M x 32	(1) 8M x 32	(1) 8M x 32	(1) 8M x 32
Note: Board also accepts x 36 SIMMs.				

CACHE CONFIGURATION

Size	Bank 0	Bank 1	TAG

128KB	(4) 32K x 8	None	(1) 32K x 8
256KB	(4) 32K x 8	(4) 32K x 8	(1) 32K x 8

CACHE JUMPER CONFIGURATION			
Size	J16	J17	J38
128KB	Pins 2 & 3 closed	Open	Open
256KB	Pins 1 & 2 closed	Closed	Open

CPU SPEED SELECTION			
Speed	J35	J36	J37
20MHz	Closed	Open	Open
25MHz	Open	Closed	Closed
33MHz	Open	Closed	Open
40MHz	Open	Open	Closed
50iMHz	Open	Closed	Closed
50MHz	Open	Open	Open
66iMHz	Open	Closed	Open
75iMHz	Open	Closed	Closed
100iMHz	Open	Closed	Open

CPU TYPE SELECTION		
Type	J23	J24
80486SX	Pins 1 & 2 closed	Open
486 Overdrive	Pins 2 & 3 closed	Open
80486DX	Pins 2 & 3 closed	Open
80486DX2	Pins 2 & 3 closed	Open

80486DX4	Pins 2 & 3 closed	Open
P24T	Pins 2 & 3 closed	Closed

CPU MULTIPLIER SELECTION (80486DX4 ONLY)	
Multiplier	JP10
Other multiplier	Pins 1 & 2 closed
2x	Pins 3 & 4 closed
3x	Open

LOCAL BUS SELECTION ON RISER SLOT				
Setting	JP3	JP4	JP7	JP13
VESA local bus	Pins 1 & 2 closed	Pins 1 & 2 closed	Open	Closed
PCI local bus	Pins 2 & 3 closed	Pins 2 & 3 closed	Closed	Open

DMA CHANNEL SELECTION		
Channel	JP8	JP9
1	Pins 2 & 3 closed	Pins 2 & 3 closed
3	Pins 1 & 2 closed	Pins 1 & 2 closed