AST RESEARCH, INC.
B R A V O   L C   (9 4)   (2 0 2 5 9 4 - X X X)

Processor	80486SX/80486DX/ODP486SX/Pentium Overdrive
Processor Speed	25/33MHz
Chip Set	AST
Max. Onboard DRAM	64MB
Cache	64/256KB
BIOS	AMI
Dimensions	330mm x 218mm
I/O Options	32-bit VESA local bus slot, floppy drive interface, IDE interface, parallel port, PS/2 mouse port, serial ports (2), VGA port, VGA feature connector
NPU Options	None
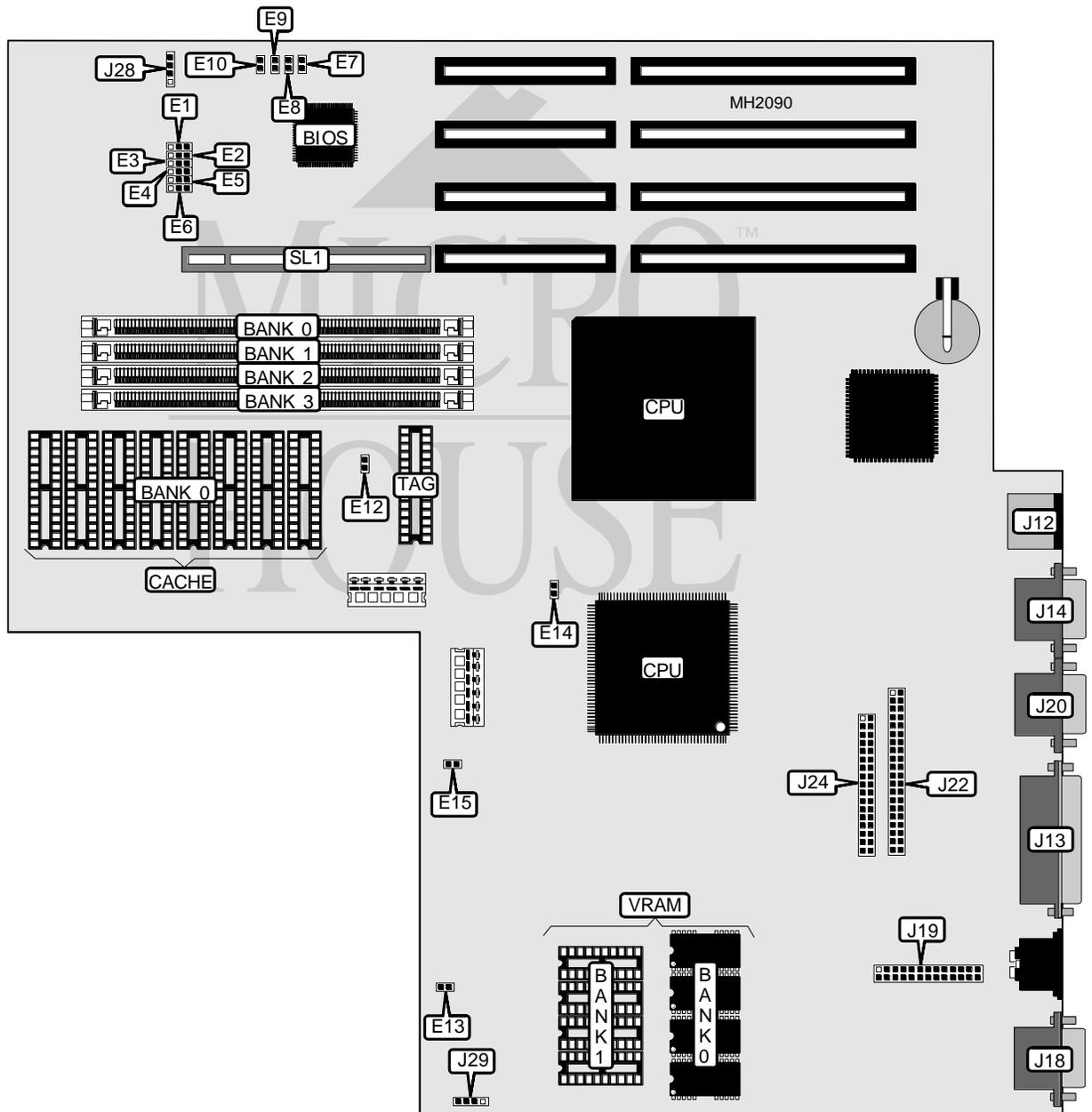
AST RESEARCH, INC.
B R A V O   L C   (9 4)   (2 0 2 5 9 4 - X X X)

CONNECTIONS			
Purpose	Location	Purpose	Location
PS/2 mouse port	J12	IDE interface	J22
Parallel port	J13	Floppy drive interface	J24
Serial port 1	J14	Chassis fan power	J28
VGA port	J18	Front panel LED connector	J29
VGA feature connector	J19	32-bit VESA Local bus slot	SL1
Serial port 2	J20		

USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í VESA cache write through enabled	E1	pins 1 & 2 closed
VESA cache write back enabled	E1	pins 2 & 3 closed
í Parallel port IRQ select IRQ7	E2	pins 1 & 2 closed
Parallel port IRQ select IRQ5	E2	pins 2 & 3 closed
í On board video enabled	E7	Closed
On board video disabled	E7	Open
í Monitor type select color	E8	Closed
Monitor type select monochrome	E8	Open
í Factory configured - do not alter	E9	pins 1 & 2 closed
í CMOS memory normal operation	E10	Closed
CMOS memory clear	E10	Open

DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	(1) 256K x 36	NONE	NONE	NONE
2MB	(1) 256K x 36	(1) 256K x 36	NONE	NONE
3MB	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36	NONE
4MB	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
4MB	(1) 1M x 36	NONE	NONE	NONE
5MB	(1) 1M x 36	(1) 256K x 36	NONE	NONE
6MB	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36	NONE
7MB	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
8MB	(1) 1M x 36	(1) 1M x 36	NONE	NONE
9MB	(1) 1M x 36	(1) 1M x 36	(1) 256K x 36	NONE
10MB	(1) 1M x 36	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36
12MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	NONE
13MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	(1) 256K x 36
16MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
16MB	(1) 4M x 36	NONE	NONE	NONE
17MB	(1) 4M x 36	(1) 256K x 36	NONE	NONE
18MB	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36	NONE
19MB	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36

AST RESEARCH, INC.
B R A V O L C (9 4) (2 0 2 5 9 4 - X X X)

DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
20MB	(1) 4M x 36	(1) 1M x 36	NONE	NONE
21MB	(1) 4M x 36	(1) 1M x 36	(1) 256K x 36	NONE
22MB	(1) 4M x 36	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36
24MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	NONE
25MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	(1) 256K x 36
28MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
32MB	(1) 4M x 36	(1) 4M x 36	NONE	NONE
33MB	(1) 4M x 36	(1) 4M x 36	(1) 256K x 36	NONE
34MB	(1) 4M x 36	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36
36MB	(1) 4M x 36	(1) 4M x 36	(1) 1M x 36	NONE
37MB	(1) 4M x 36	(1) 4M x 36	(1) 1M x 36	(1) 256K x 36
40MB	(1) 4M x 36	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36
48MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	NONE
49MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 256K x 36
52MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 1M x 36
64MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36

CACHE CONFIGURATION		
Size	Bank 0	TAG
64KB	(8) 8K x 8	(1) 8K x 8
256KB	(8) 32K x 8	(1) 32K x 8

CACHE JUMPER CONFIGURATION		
Size	E12	E14
64KB	Open	Open
256KB	Closed	Closed

CPU TYPE CONFIGURATION					
Type	E3	E4	E5	E6	E13
80486SX PQFP	2 & 3	2 & 3	2 & 3	1 & 2	Open
80486SX PGA	1 & 2	1 & 2	1 & 2	1 & 2	Closed
80486DX	2 & 3	2 & 3	2 & 3	1 & 2	Closed
ODP80486SX	2 & 3	2 & 3	2 & 3	1 & 2	Closed
Pentium Overdrive	2 & 3	1 & 2	2 & 3	1 & 2	Closed
Note: Jumper E6 set with pins 1 & 2 closed enables write through cache, pins 2 & 3 closed enabled write back cache. If write back is enabled, and pins 2 & 3 closed on jumper E1, write back mode is enabled for SL1.					

CPU SPEED CONFIGURATION	
Speed	E15
25MHz	Closed
33MHz	Open

AST RESEARCH, INC.
BRAVO LC (94) (202594-XXX)

VIDEO MEMORY CONFIGURATION		
Size	Bank 0	Bank 1
512KB	(4) 256K x 4	NONE
1MB	(4) 256K x 4	(4) 256K x 4
Note: Bank O is factory installed and is not configurable.		