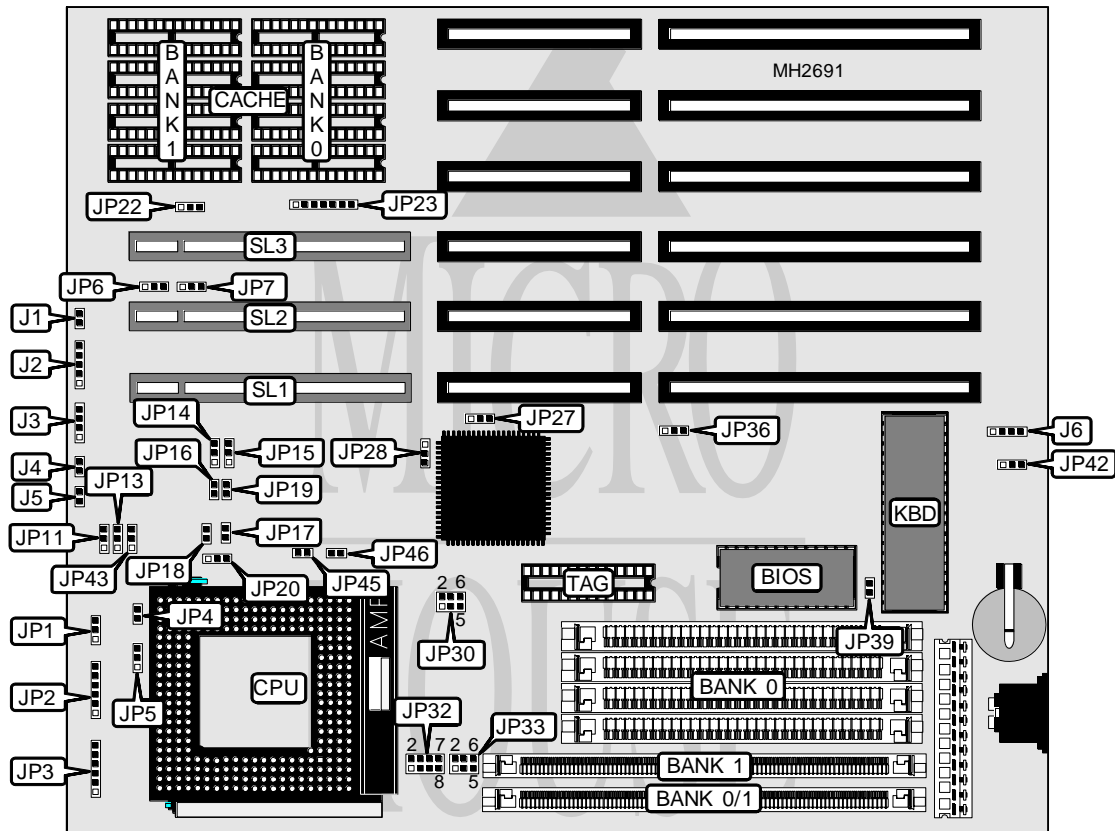


# VISION TECHNOLOGIES

## VLR 486

<b>Processor</b>	CX486M6/80486SX/TI486SXL/TI486SXL2/80487SX/CX486M7/80486DX/ AM486DXL/486DX2/80486DX4/Pentium Overdrive
<b>Processor Speed</b>	25/33/40/50(internal)/50/66(internal)/66/75(internal)/80(internal)/ 100(internal)MHz
<b>Chip Set</b>	ALI
<b>Max. Onboard DRAM</b>	128MB
<b>Cache</b>	32/64/128/256/512KB
<b>BIOS</b>	Award
<b>Dimensions</b>	330mm x 218mm
<b>I/O Options</b>	32-bit VESA local bus slots (3)
<b>NPU Options</b>	None



CONNECTIONS			
Purpose	Location	Purpose	Location
Reset switch	J1	Turbo LED	J4
Power LED & keylock	J2	Turbo switch	J5
Speaker	J3	32-bit VESA local bus slots	SL1 - SL3

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
Battery type select internal	J6	pins 2 & 3 closed
Battery type select external	J6	Closed
CMOS memory clear	J6	pins 1 & 2 closed
Factory configured - do not alter	JP4	N/A
Factory configured - do not alter	JP11	pins 1 & 2 closed
Cache type select write through	JP16	Open
Cache type select write back	JP16	Closed
Factory configured - do not alter	JP18	N/A
CPU type select Intel S series CPU	JP19	Closed
CPU type select 5v general CPU	JP19	Open
Factory configured - do not alter	JP22	pins 2 & 3 closed
Factory configured - do not alter	JP29	pins 2 & 3 closed
External power select standby mode	JP32	pins 1 & 3 closed
External power select suspend mode	JP32	pins 5 & 7 closed
Factory configured - do not alter	JP34	Closed
Factory configured - do not alter	JP35	Closed
Monitor type select color	JP39	Closed
Monitor type select monochrome	JP39	Open
Battery type select lithium	JP42	pins 2 & 3 closed
Battery type select NI-CD	JP42	pins 1 & 2 closed

Note: The locations of JP29, JP34, and JP35 are unidentified.

DRAM CONFIGURATION			
Size	Bank 0	Bank 0/1	Bank 1
1MB	(4) 256K x 9	NONE	NONE
1MB	NONE	(1) 256K x 36	NONE
1MB	NONE	NONE	(1) 256K x 36
2MB	(4) 256K x 9	(1) 256K x 36	NONE
2MB	(4) 256K x 9	NONE	(1) 256K x 36
2MB	NONE	(1) 256K x 36	(1) 256K x 36
3MB	(4) 256K x 9	(1) 256K x 36	(1) 256K x 36
4MB	(4) 1M x 9	NONE	NONE
4MB	NONE	(1) 1M x 36	NONE
4MB	NONE	NONE	(1) 1M x 36
6MB	(4) 256K x 9	(1) 1M x 36	(1) 256K x 36
6MB	(4) 256K x 9	(1) 256K x 36	(1) 1M x 36
6MB	(4) 1M x 9	(1) 256K x 36	(1) 256K x 36
8MB	(4) 1M x 9	(1) 1M x 36	NONE
8MB	(4) 1M x 9	NONE	(1) 1M x 36
8MB	NONE	(1) 1M x 36	(1) 1M x 36
9MB	(4) 256K x 9	(1) 1M x 36	(1) 1M x 36
9MB	(4) 1M x 9	(1) 1M x 36	(1) 256K x 36
9MB	(4) 1M x 9	(1) 256K x 36	(1) 1M x 36
16MB	(4) 4M x 9	NONE	NONE
16MB	NONE	(1) 4M x 36	NONE

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DRAM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 0/1	Bank 1
16MB	NONE	NONE	(1) 4M x 36
16MB	(4) 1M x 9	(1) 1M x 36	(1) 1M x 36
18MB	(4) 256K x 9	(1) 4M x 36	(1) 256K x 36
18MB	(4) 256K x 9	(1) 256K x 36	(1) 4M x 36
18MB	(4) 4M x 9	(1) 256K x 36	(1) 256K x 36
21MB	(4) 256K x 9	(1) 4M x 36	(1) 1M x 36
21MB	(4) 256K x 9	(1) 1M x 36	(1) 4M x 36
21MB	(4) 1M x 9	(1) 4M x 36	(1) 256K x 36
21MB	(4) 1M x 9	(1) 256K x 36	(1) 4M x 36
21MB	(4) 4M x 9	(1) 1M x 36	(1) 256K x 36
21MB	(4) 4M x 9	(1) 256K x 36	(1) 1M x 36
24MB	(4) 1M x 9	(1) 4M x 36	(1) 1M x 36
24MB	(4) 1M x 9	(1) 1M x 36	(1) 4M x 36
24MB	(4) 4M x 9	(1) 1M x 36	(1) 1M x 36
32MB	(4) 4M x 9	(1) 4M x 36	NONE
32MB	(4) 4M x 9	NONE	(1) 4M x 36
32MB	NONE	(1) 4M x 36	(1) 4M x 36
33MB	(4) 256K x 9	(1) 4M x 36	(1) 4M x 36
33MB	(4) 4M x 9	(1) 4M x 36	(1) 256K x 36
33MB	(4) 4M x 9	(1) 256K x 36	(1) 4M x 36
36MB	(4) 1M x 9	(1) 4M x 36	(1) 4M x 36
36MB	(4) 4M x 9	(1) 4M x 36	(1) 1M x 36
36MB	(4) 4M x 9	(1) 1M x 36	(1) 4M x 36
48MB	(4) 4M x 9	(1) 4M x 36	(1) 4M x 36
64MB	(4) 16M x 9	NONE	NONE
64MB	NONE	(1) 16M x 36	NONE
64MB	NONE	NONE	(1) 16M x 36
66MB	(4) 256K x 9	(1) 16M x 36	(1) 256K x 36
66MB	(4) 256K x 9	(1) 256K x 36	(1) 16M x 36
66MB	(4) 16M x 9	(1) 256K x 36	(1) 256K x 36
69MB	(4) 256K x 9	(1) 1M x 36	(1) 16M x 36
69MB	(4) 256K x 9	(1) 16M x 36	(1) 1M x 36
69MB	(4) 1M x 9	(1) 16M x 36	(1) 256K x 36
69MB	(4) 1M x 9	(1) 256K x 36	(1) 16M x 36
69MB	(4) 16M x 9	(1) 1M x 36	(1) 256K x 36
69MB	(4) 16M x 9	(1) 256K x 36	(1) 1M x 36
72MB	(4) 1M x 9	(1) 16M x 36	(1) 1M x 36
72MB	(4) 1M x 9	(1) 1M x 36	(1) 16M x 36
72MB	(4) 16M x 9	(1) 1M x 36	(1) 1M x 36
81MB	(4) 256K x 9	(1) 16M x 36	(1) 4M x 36
81MB	(4) 256K x 9	(1) 4M x 36	(1) 16M x 36
81MB	(4) 4M x 9	(1) 16M x 36	(1) 256K x 36
81MB	(4) 4M x 9	(1) 256K x 36	(1) 16M x 36
81MB	(4) 16M x 9	(1) 4M x 36	(1) 256K x 36

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DRAM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 0/1	Bank 1
81MB	(4) 16M x 9	(1) 256K x 36	(1) 4M x 36
84MB	(4) 1M x 9	(1) 16M x 36	(1) 4M x 36
84MB	(4) 1M x 9	(1) 4M x 36	(1) 16M x 36
84MB	(4) 4M x 9	(1) 1M x 36	(1) 16M x 36
84MB	(4) 16M x 9	(1) 4M x 36	(1) 1M x 36
84MB	(4) 16M x 9	(1) 1M x 36	(1) 4M x 36
96MB	(4) 4M x 9	(1) 16M x 36	(1) 4M x 36
96MB	(4) 4M x 9	(1) 4M x 36	(1) 16M x 36
96MB	(4) 16M x 9	(1) 4M x 36	(1) 4M x 36
128MB	(4) 16M x 9	(1) 16M x 36	NONE
128MB	(4) 16M x 9	NONE	(1) 16M x 36
128MB	NONE	(1) 16M x 36	(1) 16M x 36

CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG
32KB	(4) 8K x 8	NONE	(1) 8K x 8
64KB	(4) 16K x 8	NONE	(1) 8K x 8
64KB	(4) 8K x 8	(4) 8K x 8	(1) 8K x 8
128KB	(4) 32K x 8	NONE	(1) 8K x 8
256KB	(4) 64K x 8	NONE	(1) 16K x 8
256KB	(4) 32K x 8	(4) 32K x 8	(1) 16K x 8
512KB	(4) 128K x 8	NONE	(1) 32K x 8

CACHE JUMPER CONFIGURATION		
Size	JP23	JP30
32KB	pins 6 & 7 closed	Open
64KB	pins 4 & 5, 6 & 7 closed	pins 1 & 2 closed
64KB	pins 5 & 6 closed	pins 1 & 2 closed
128KB	pins 2 & 3, 4 & 5, 6 & 7 closed	pins 1 & 2, 3 & 4 closed
256KB	pins 2 & 3, 4 & 5, 6 & 7 closed	pins 1 & 2, 3 & 4 closed
256KB	pins 1 & 2, 3 & 4, 5 & 6 closed	pins 1 & 2, 3 & 4 closed
512KB	pins 2 & 3, 4 & 5, 6 & 7 closed	pins 1 & 2, 3 & 4, 5 & 6 closed

CPU TYPE CONFIGURATION		
Type	JP5	JP27
TI486SXL	pins 2 & 3 Closed	pins 1 & 2 closed
TI486SXL2	pins 2 & 3 Closed	pins 1 & 2 closed
Cyrix	pins 1 & 2 closed	pins 2 & 3 Closed
Other CPU's	Open	pins 2 & 3 Closed

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CPU TYPE CONFIGURATION				
Type	JP13	JP14	JP15	JP17
CX486M6	Open	pins 1 & 2 closed	pins 1 & 2 closed	Open
80486SX	Open	pins 1 & 2 closed	pins 1 & 2 closed	Open
TI486SXL	Open	pins 1 & 2 closed	pins 1 & 2 closed	Open
TI486SXL2	Open	pins 1 & 2 closed	pins 1 & 2 closed	Open
80487SX	pins 1 & 2 closed	pins 1 & 2 closed	pins 2 & 3 closed	Closed
CX486M7	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed	Closed
80486DX	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed	Closed
80486DX2	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed	Closed
80486DX4	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed	Closed
Pentium Overdrive	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed	Closed

CPU TYPE CONFIGURATION (CON'T)			
Type	JP20	JP45	JP46
CX486M6	pins 1 & 2 closed	Open	Open
80486SX	pins 1 & 2 closed	Open	Open
TI486SXL	pins 1 & 2 closed	Closed	Closed
TI486SXL2	pins 1 & 2 closed	Closed	Closed
80487SX	pins 1 & 2 closed	Open	Open
CX486M7	pins 1 & 2 closed	Open	Open
80486DX	pins 1 & 2 closed	Open	Open
80486DX2	pins 1 & 2 closed	Open	Open
80486DX4	pins 1 & 2 closed	Open	Open
Pentium Overdrive	pins 2 & 3 closed	Open	Open

SMI CPU TYPE CONFIGURATION			
Type	JP1	JP2	JP3
80486 S-series	pins 1 & 2 closed	pins 1 & 2 closed	pins 1 & 2 closed
80486DX4	pins 1 & 2 closed	pins 1 & 2 closed	pins 1 & 2 closed
AM486DXL	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed
CX486M6	pins 2 & 3 closed	pins 4 & 5 closed	pins 4 & 5 closed
CX486M7	pins 2 & 3 closed	pins 4 & 5 closed	pins 4 & 5 closed
TI486SXL	pins 1 & 2 closed	pins 5 & 6 closed	pins 1 & 2, 5 & 6 closed
TI486SXL2	pins 1 & 2 closed	pins 5 & 6 closed	pins 1 & 2, 5 & 6 closed
5v general CPU	Open	Open	Open

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CPU SPEED CONFIGURATION (INTEL & CYRIX ONLY)			
Speed	JP28	JP33	JP36
25MHz	pins 1 & 2 closed	pins 1 & 2, 5 & 6 closed	pins 1 & 2 closed
33MHz	pins 1 & 2 closed	pins 1 & 2, 3 & 4 closed	pins 1 & 2 closed
40MHz	pins 1 & 2 closed	pins 5 & 6 closed	pins 1 & 2 closed
50iMHz	pins 1 & 2 closed	pins 1 & 2, 5 & 6 closed	pins 1 & 2 closed
50MHz	pins 2 & 3 closed	pins 1 & 2, 5 & 6 closed	pins 2 & 3 closed
66iMHz	pins 1 & 2 closed	pins 1 & 2, 3 & 4 closed	pins 1 & 2 closed
75iMHz	pins 1 & 2 closed	pins 1 & 2, 5 & 6 closed	pins 1 & 2 closed
80iMHz	pins 1 & 2 closed	pins 5 & 6 closed	pins 1 & 2 closed
100iMHz	pins 1 & 2 closed	pins 1 & 2, 3 & 4 closed	pins 1 & 2 closed

CPU SPEED CONFIGURATION (TI ONLY)			
Speed	JP28	JP33	JP36
25MHz	pins 2 & 3 closed	pins 1 & 2, 5 & 6 closed	pins 1 & 2 closed
33MHz	pins 2 & 3 closed	pins 1 & 2, 3 & 4 closed	pins 1 & 2 closed
40MHz	pins 2 & 3 closed	pins 5 & 6 closed	pins 1 & 2 closed
50iMHz	pins 2 & 3 closed	pins 1 & 2, 5 & 6 closed	pins 1 & 2 closed
66iMHz	pins 2 & 3 closed	pins 1 & 2, 3 & 4 closed	pins 1 & 2 closed

CPU VOLTAGE CONFIGURATION	
Voltage	JP43
3.3v	pins 1 & 2 closed
5v	pins 2 & 3 closed

VESA WAIT STATE CONFIGURATION	
Wait states	JP7
0 wait states	pins 1 & 2 closed
1 wait state	pins 2 & 3 closed

BUS SPEED CONFIGURATION	
CPU speed	JP6
<= 33MHz	pins 1 & 2 closed
> 33MHz	pins 2 & 3 closed