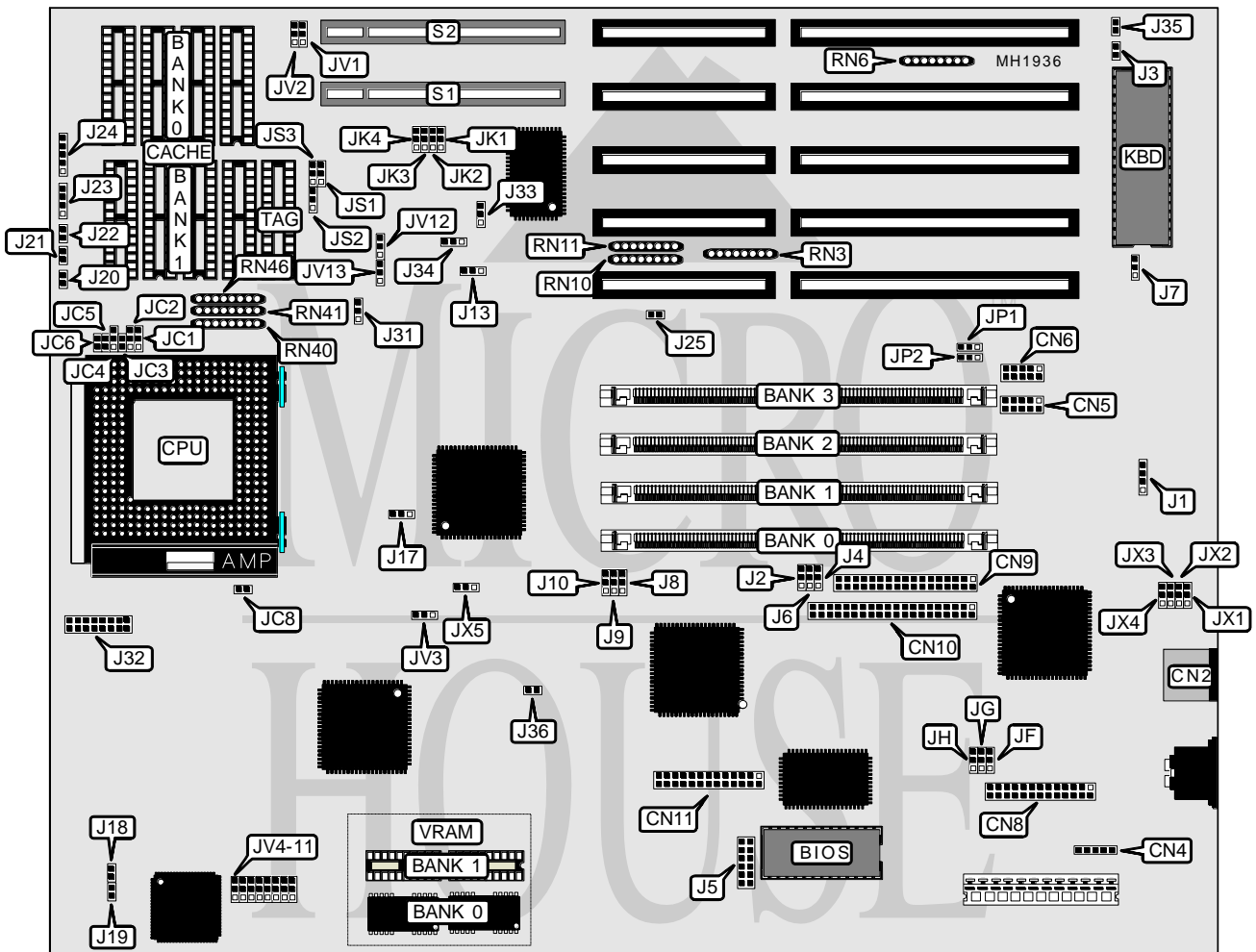


FIRST INTERNATIONAL COMPUTER, INC.

LEO 486-GAV

Processor	80486SL/80486DX/80486DX2/80486DX4/Pentium Overdrive
Processor Speed	25/33/40/50(internal)/50/66(internal)MHz
Chip Set	VIA
Max. Onboard DRAM	64MB
Cache	64/128/256KB
BIOS	Award
Dimensions	330mm x 218mm
I/O Options	32-bit VESA local bus slots (2), floppy drive interface, IDE interface, parallel port, PS/2 mouse port, (2), serial ports (2), VGA feature connector, VGA connector
NPU Options	None



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CONNECTIONS			
Purpose	Location	Purpose	Location
PS/2 mouse port (6-pin DIN)	CN2	VGA connector	J5
PS/2 mouse connector	CN4	Turbo LED	J20
Serial port 1	CN5	Turbo switch	J21
Serial port 2	CN6	Reset switch	J22
Parallel port	CN8	Speaker	J23
Floppy drive interface	CN9	Power LED & keylock	J24
IDE interface	CN10	3.3V daughter board (80486DX4 only)	J32
Video feature connector	CN11	Green status LED	J35
External battery	J1	Hardware sleep	J36
Green PC power	J3	32-bit VESA Local bus slot	S1
IDE interface LED	J4	32-bit VESA Local bus slot	S2

USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
1 IDE connector pin 27 open	J2	Open
IDE connector pin 27 linked to IOCHRDY signal	J2	Closed
1 IDE connector pin 28 open	J6	Open
IDE connector pin 28 linked to BALE signal	J6	Closed
1 CMOS memory normal operation	J7	pins 1 & 2 closed
CMOS memory clear	J7	pins 2 & 3 closed
1 Factory configured - do not alter	J11	pins 1 & 2 closed
1 Factory configured - do not alter	J25	N/A
1 80486DX4 clock mode 2.5x	J31	pins 1 & 2 closed
80486DX4 clock mode 2x	J31	pins 2 & 3 closed
80486DX4 clock mode 3x	J31	Open
1 Factory configured - do not alter	J33	pins 2 & 3 closed
1 Pentium Overdrive write-back	JC8	pins 1 & 2 closed
Pentium Overdrive write-through	JC8	pins 2 & 3 closed
1 Factory configured - do not alter	JH	pins 2 & 3 closed
1 Factory configured - do not alter	JX6	pins 2 & 3 closed
1 Video upper physical address decode input select SA (26..31)	JV5	pins 1 & 2 closed
Video upper physical address decode input select SAUP (1..2)	JV5	pins 2 & 3 closed
1 Video DAC local access enabled	JV6	pins 1 & 2 closed
Video DAC local access disabled	JV6	pins 2 & 3 closed
1 Video memory address select 256KB	JV11	pins 1 & 2 closed
Video memory address select 64KB	JV11	pins 2 & 3 closed
1 Normal operation	JV12	pins 1 & 2 closed
Other IDE/VGA controller is installed at S1	JV12	pins 2 & 3 closed
1 Normal operation	JV13	pins 1 & 2 closed
Other IDE/VGA controller is installed at S2	JV13	pins 2 & 3 closed
1 CPU clock 1x	JX1	pins 1 & 2 closed
CPU clock 2x	JX1	pins 2 & 3 closed

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IDE CONFIGURATION				
IDE	Speed	J8	J9	J10
Enabled	0	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed
Enabled	1	pins 2 & 3 closed	pins 1 & 2 closed	pins 1 & 2 closed
Enabled	2	pins 1 & 2 closed	pins 1 & 2 closed	pins 1 & 2 closed
Disabled	N/A	N/A	N/A	pins 2 & 3 closed

PARALLEL PORT CONFIGURATION		
Port	JG	JH
Input	pins 1 & 2 closed	pins 1 & 2 closed
Output	pins 1 & 2 closed	pins 2 & 3 closed
Bi-directional	pins 2 & 3 closed	N/A

VRAM CONFIGURATION			
Video	IRQ9	JV3	JV4
1 Enabled	1 Disabled	pins 2 & 3 closed	pins 1 & 2 closed
Disabled	Enabled	pins 1 & 2 closed	pins 2 & 3 closed

VRAM MEMORY CONFIGURATION		
Size	Bank 0	Bank 1
1MB	(2) 512K x 4	NONE
2MB	(2) 512K x 4	(2) 512K x 4

VIDEO MCLK SELECT		
MCLK	J18	J19
1 50MHz	Open	Open
52MHz	Open	Closed
45MHz	Closed	Closed
38MHz	Closed	Open

MONITOR REFRESH RATE		
Rate	JV7	JV8
1 43Hz interlaced	pins 2 & 3 closed	pins 2 & 3 closed
56Hz non-interlaced	pins 2 & 3 closed	pins 1 & 2 closed
60Hz non-interlaced	pins 1 & 2 closed	pins 2 & 3 closed
70/72Hz non-interlaced	pins 1 & 2 closed	pins 1 & 2 closed

VIDEO INTERLEAVE TIMING		
Select	JV9	JV10
1 1 NanoSeconds	pins 1 & 2 closed	pins 1 & 2 closed
2 NanoSeconds	pins 1 & 2 closed	pins 2 & 3 closed
3 NanoSeconds	pins 2 & 3 closed	pins 1 & 2 closed
4 NanoSeconds	pins 2 & 3 closed	pins 2 & 3 closed

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

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DRAM CONFIGURATION (continued)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
12MB	(1) 1M x 36	NONE	(1) 1M x 36	(1) 1M x 36
13MB	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
13MB	(1) 1M x 36	(1) 256K x 36	(1) 1M x 36	(1) 1M 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
16MB	NONE	(1) 4M x 36	NONE	NONE
16MB	NONE	NONE	(1) 4M x 36	NONE
17MB	(1) 4M x 36	(1) 256K x 36	NONE	NONE
17MB	(1) 256K x 36	(1) 4M x 36	NONE	NONE
17MB	(1) 256K x 36	NONE	(1) 4M x 36	NONE
17MB	NONE	(1) 4M x 36	(1) 256K x 36	NONE
17MB	NONE	(1) 256K x 36	(1) 4M x 36	NONE
18MB	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36	NONE
18MB	(1) 256K x 36	(1) 256K x 36	(1) 4M x 36	NONE
18MB	(1) 256K x 36	(1) 4M x 36	(1) 256K x 36	NONE
18MB	NONE	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36
19MB	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
19MB	(1) 256K x 36	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36
20MB	(1) 4M x 36	(1) 1M x 36	NONE	NONE
20MB	(1) 1M x 36	(1) 4M x 36	NONE	NONE
20MB	(1) 1M x 36	NONE	(1) 4M x 36	NONE
20MB	NONE	(1) 1M x 36	(1) 4M x 36	NONE
20MB	NONE	(1) 4M x 36	(1) 1M x 36	NONE
21MB	(1) 4M x 36	(1) 1M x 36	(1) 256K x 36	NONE
21MB	(1) 256K x 36	(1) 1M x 36	(1) 4M x 36	NONE
21MB	(1) 256K x 36	(1) 4M x 36	(1) 1M x 36	NONE
21MB	(1) 1M x 36	(1) 256K x 36	(1) 4M x 36	NONE
21MB	(1) 1M x 36	(1) 4M x 36	(1) 256K x 36	NONE
22MB	(1) 4M x 36	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36
22MB	(1) 1M x 36	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36
24MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	NONE
24MB	(1) 1M x 36	(1) 1M x 36	(1) 4M x 36	NONE
24MB	(1) 1M x 36	(1) 4M x 36	(1) 1M x 36	NONE
24MB	NONE	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36
25MB	(1) 256K x 36	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36
28MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
28MB	(1) 1M x 36	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36
32MB	(1) 4M x 36	(1) 4M x 36	NONE	NONE
32MB	NONE	(1) 4M x 36	(1) 4M x 36	NONE
32MB	NONE	NONE	(1) 4M x 36	(1) 4M x 36
33MB	(1) 4M x 36	(1) 4M x 36	(1) 256K x 36	NONE

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DRAM CONFIGURATION (continued)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
33MB	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36	NONE
33MB	NONE	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36
33MB	(1) 256K x 36	NONE	(1) 4M x 36	(1) 4M x 36
34MB	(1) 4M x 36	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36
34MB	(1) 256K x 36	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36
36MB	(1) 4M x 36	(1) 4M x 36	(1) 1M x 36	NONE
36MB	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36	NONE
36MB	NONE	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36
36MB	(1) 1M x 36	NONE	(1) 4M x 36	(1) 4M x 36
37MB	(1) 256K x 36	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36
37MB	(1) 1M x 36	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36
40MB	(1) 4M x 36	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36
40MB	(1) 1M x 36	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36
48MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	NONE
48MB	NONE	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
49MB	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
52MB	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
64MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
64MB	(1) 8M x 36	NONE	(1) 8M x 36	NONE

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

CACHE JUMPER CONFIGURATION			
Size	JS1	JS2	JS3
64KB	pins 1 & 2 closed	pins 1 & 2 closed	pins 1 & 2 closed
128KB	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed
256KB	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed

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CPU SPEED CONFIGURATION				
Speed	JK1	JK2	JK3	JK4
25MHz	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed	pins 1 & 2 closed
33MHz	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed	pins 1 & 2 closed
40MHz	pins 1 & 2 closed	pins 1 & 2 closed	pins 2 & 3 closed	pins 1 & 2 closed
50iMHz	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed	pins 1 & 2 closed
50MHz	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed
66iMHz	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed	pins 1 & 2 closed

CPU TYPE CONFIGURATION					
Type	JC1	JC2	JC3	JC4	JC6
80486SX	pins 2 & 3	pins 2 & 3	Open	pins 1 & 2	Open
CX486S	pins 2 & 3	pins 2 & 3	Open	pins 1 & 2	Closed
CX486S+	pins 1 & 2	pins 1 & 2	Open	pins 1 & 2	Open
CX487S	pins 1 & 2	pins 1 & 2	Open	pins 1 & 2	Open
AM486DXL	pins 1 & 2	pins 1 & 2	Open	pins 1 & 2	Closed
CX486DX	pins 1 & 2	pins 1 & 2	Open	pins 1 & 2	Open
80486DX	pins 1 & 2	pins 1 & 2	Open	pins 1 & 2	Closed
80486DX2	pins 1 & 2	pins 1 & 2	Open	pins 1 & 2	Closed
80486DX4	pins 1 & 2	pins 1 & 2	Open	pins 1 & 2	Closed
Pentium Overdrive	pins 1 & 2	pins 1 & 2	Closed	pins 2 & 3	Closed

Note: Pins designated should be in the closed position.

CPU TYPE CONFIGURATION (continued)				
Type	JC5	RN40	RN41	RN46
80486SX	Open	Not installed	Not installed	Not installed
CX486S	Open	Installed	Not installed	Not installed
CX486S+	Open	Installed	Not installed	Not installed
CX487S	Open	Installed	Not installed	Not installed
AM486DXL	Open	Not installed	Not installed	Installed
CX486DX	Open	Installed	Not installed	Not installed
80486DX	Open	Not installed	Not installed	Not installed
80486DX2	Open	Not installed	Not installed	Not installed
80486DX4	Closed	Not installed	Installed	Not installed
Pentium Overdrive	Closed	Not installed	Not installed	Not installed

CPU TYPE CONFIGURATION (manufacturer)		
Type	J17	J34
Intel	pins 1 & 2 closed	pins 1 & 2 closed
Cyrix	pins 2 & 3 closed	pins 2 & 3 closed

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CPU TYPE IRQ SELECTION			
Select	J13	JX2	JX5
IRQ15	pins 2 & 3 closed	pins 1 & 2 closed	pins 1 & 2 closed
SMI	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed

Note: Jumper pins 1 & 2 of J13 if JX2 and JX5 are set at SMI and you wish to use the IRQ15 function.

KEYBOARD CONFIGURATION						
Select	JX3	JX4	RN3	RN6	RN10	RN11
External	pins 1 & 2	pins 1 & 2	Not installed	Installed	Not installed	Installed
Internal	pins 2 & 3	pins 2 & 3	Installed	Not installed	Installed	Not installed

Note: Pins designated should be in the closed position.

VESA WAIT STATE/BUS SPEED CONFIGURATION			
CPU speed	Wait states	JV1	JV2
< 33MHz	0 wait states	pins 2 & 3 closed	pins 2 & 3 closed
> 33MHz	1 wait state	pins 1 & 2 closed	pins 1 & 2 closed

PC87332 ECP DMA CHANNEL SELECT			
DREQ	DACK	JP1	JP2
1	1	pins 2 & 3 closed	pins 2 & 3 closed
3	3	pins 1 & 2 closed	pins 1 & 2 closed

NSS87311/312 BASE I/O ADDRESS SELECT		
Index Address	Data Address	JF
26Eh	26Fh	pins 1 & 2 closed
398h	399h	pins 2 & 3 closed

NSS87332 BASE I/O ADDRESS SELECT			
Index Address	Data Address	JF	JG
2Eh	2Fh	pins 1 & 2 closed	pins 1 & 2 closed
26Eh	26Fh	pins 1 & 2 closed	pins 2 & 3 closed
15Ch	15Dh	pins 2 & 3 closed	pins 1 & 2 closed
398h	399h	pins 2 & 3 closed	pins 2 & 3 closed