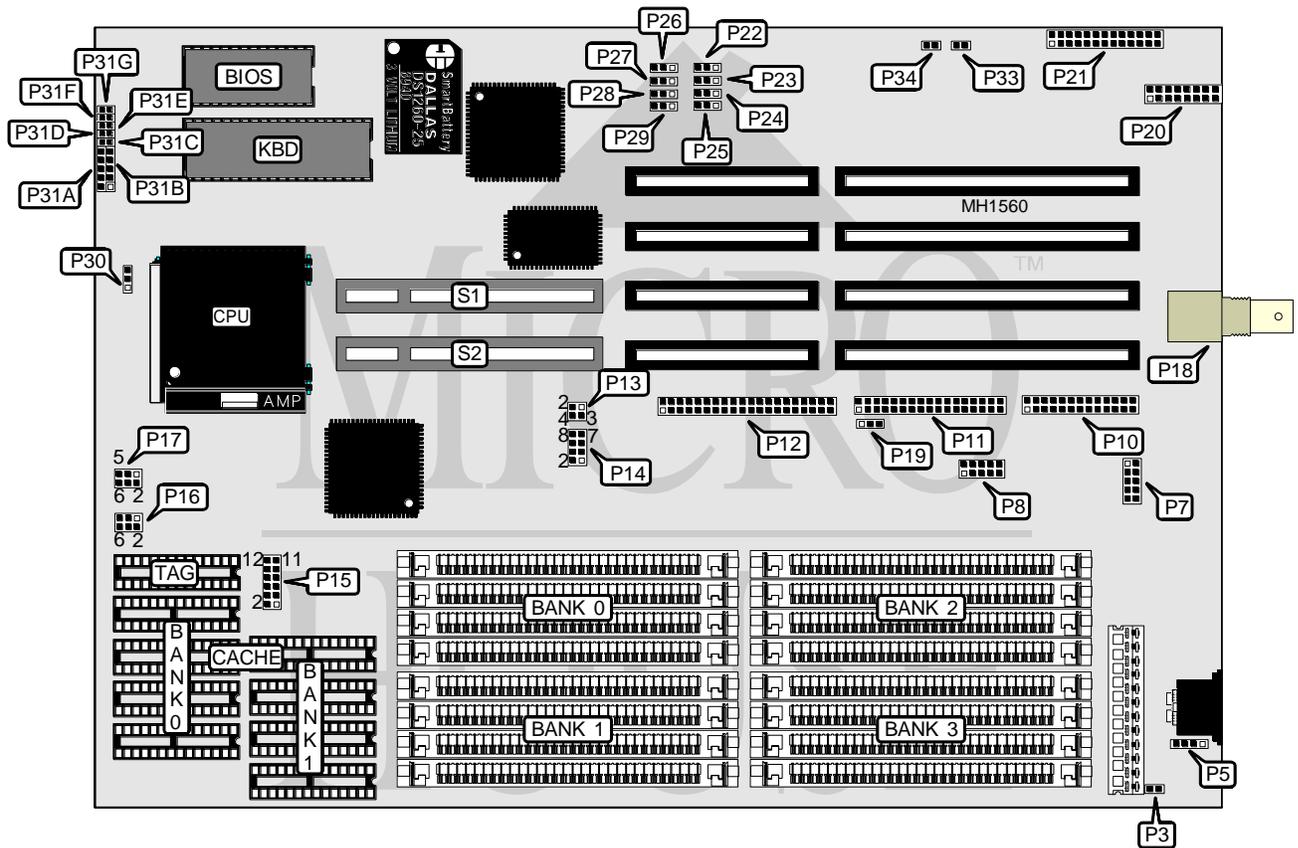


INTERCOMP, INC. 486 PERSONAL WORKSTATION

Processor	80486SX/80487SX/80486DX/ODP486SX/80486DX2/80586SX
Processor Speed	20/25/33/50(Internal)/50/66(Internal)MHz
Chip Set	Intercomp/OPTI
Max. onboard DRAM	64MB
SRAM Cache	64/128/256KB
BIOS	AMI
Dimensions	330mm x 218mm
I/O Options	32-bit VESA local bus slots (2), 10 base T ethernet floppy drive interface, IDE interface, parallel port serial port (2), VGA port, VGA feature connector
NPU Options	None



CONNECTIONS			
Purpose	Location	Purpose	Location
External battery	P5	VGA feature connector	P21
Serial port (COM2)	P7	Keylock	P31A
Serial port (COM1)	P8	Speaker	P31B
IDE interface	P9	IDE interface LED	P31D
Parallel port	P10	Turbo LED	P31E
Floppy drive interface	P11	Turbo Switch	P31F
10 base T ethernet	P18	Reset	P31G
VGA Port	P20	32-bit VESA local bus slots	S1 & S2

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í CMOS memory normal operation	P3	Open
CMOS memory clear	P3	Closed
í VESA bus enabled	P13	pins 1 & 2, 3 & 5, 4 & 6 closed
VESA bus disabled	P13	pins 1 & 2, 5 & 7, 6 & 8 closed
í IDE select single mode	P19	pins 1 & 2 closed
IDE select master/slave mode	P19	pins 1 & 2 open
í LPT select output mode	P19	pins 3 & 4 closed
LPT select input/output mode	P19	pins 3 & 4 closed
í Factory configured do not alter	P22	pins 2 & 3 closed
í VESA bus VGA controller enabled	P23	pins 2 & 3 closed
VESA bus VGA controller disabled	P23	pins 1 & 2 closed
í Factory configured do not alter	P24	pins 2 & 3 closed
í Factory configured do not alter	P25	pins 1 & 2 closed
í Factory configured do not alter	P26	pins 2 & 3 closed
í Monitor type select color	P31C	Open
Monitor type select monochrome	P31C	Closed

Note: VESA bus should be disabled for 50MHz CPU speed operation.

VESA WAIT STATE (ID2) CONFIGURATION		
Wait states	CPU speed	P14 (ID2)
0 wait states	≤ 33MHz	pins 1 & 2 open
1 wait state	> 33MHz	pins 1 & 2 closed

VESA BUS SPEED (ID3) CONFIGURATION	
CPU speed	P14 (ID3)
≤ 33MHz	pins 3 & 4 open
> 33MHz	pins 3 & 4 closed

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DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	(4) 256K x 9	NONE	NONE	NONE
2MB	(4) 256K x 9	(4) 256K x 9	NONE	NONE
3MB	(4) 256K x 9	(4) 256K x 9	(4) 256K x 9	NONE
4MB	(4) 256K x 9			
4MB	(4) 1M x 9	NONE	NONE	NONE
5MB	(4) 256K x 9	(4) 1M x 9	NONE	NONE
6MB	(4) 256K x 9	(4) 256K x 9	(4) 1M x 9	NONE
7MB	(4) 256K x 9	(4) 256K x 9	(4) 256K x 9	(4) 1M x 9
8MB	(4) 1M x 9	(4) 1M x 9	NONE	NONE
9MB	(4) 256K x 9	(4) 1M x 9	(4) 1M x 9	NONE
10MB	(4) 256K x 9	(4) 256K x 9	(4) 1M x 9	(4) 1M x 9
12MB	(4) 1M x 9	(4) 1M x 9	(4) 1M x 9	NONE
13MB	(4) 256K x 9	(4) 1M x 9	(4) 1M x 9	(4) 1M x 9
16MB	(4) 1M x 9			
16MB	(4) 4M x 9	NONE	NONE	NONE
17MB	(4) 256K x 9	(4) 4M x 9	NONE	NONE
18MB	(4) 256K x 9	(4) 256K x 9	(4) 4M x 9	NONE
19MB	(4) 256K x 9	(4) 256K x 9	(4) 256K x 9	(4) 4M x 9
20MB	(4) 1M x 9	(4) 4M x 9	NONE	NONE
21MB	(4) 256K x 9	(4) 1M x 9	(4) 4M x 9	NONE
22MB	(4) 256K x 9	(4) 256K x 9	(4) 1M x 9	(4) 4M x 9
24MB	(4) 1M x 9	(4) 1M x 9	(4) 4M x 9	NONE
25MB	(4) 256K x 9	(4) 1M x 9	(4) 1M x 9	(4) 4M x 9
28MB	(4) 1M x 9	(4) 1M x 9	(4) 1M x 9	(4) 4M x 9
32MB	(4) 4M x 9	(4) 4M x 9	NONE	NONE
33MB	(4) 256K x 9	(4) 4M x 9	(4) 4M x 9	NONE
36MB	(4) 1M x 9	(4) 4M x 9	(4) 4M x 9	NONE
37MB	(4) 256K x 9	(4) 1M x 9	(4) 4M x 9	(4) 4M x 9
40MB	(4) 1M x 9	(4) 1M x 9	(4) 4M x 9	(4) 4M x 9
48MB	(4) 4M x 9	(4) 4M x 9	(4) 4M x 9	NONE
49MB	(4) 256K x 9	(4) 4M x 9	(4) 4M x 9	(4) 4M x 9
52MB	(4) 1M x 9	(4) 4M x 9	(4) 4M x 9	(4) 4M x 9
64MB	(4) 4M x 9			

CACHE CONFIGURATION			
Size	Cache	Location	TAG
64KB	(8) 8K x 8	Banks 0 & 1	(1) 16K x 4
128KB	(4) 32K x 8	Bank 0	(1) 16K x 4
256KB	(8) 32K x 8	Banks 0 & 1	(1) 16K x 4

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CACHE JUMPER CONFIGURATION	
Size	P15
64KB	pins 3 & 5, 4 & 6, 7 & 8 closed
128KB	pins 1 & 3, 2 & 4, 7 & 8, 9 & 10 closed
256KB	pins 3 & 5, 4 & 6, 7 & 8, 9 & 10, 11 & 12 closed

VIDEO START UP CONFIGURATION			
Mode	P27	P28	P29
640 x 480, 60Hz	pins 1 & 2 closed	pins 1 & 2 closed	pins 1 & 2 closed
640 x 480, 70Hz	pins 2 & 3 closed	pins 1 & 2 closed	pins 1 & 2 closed
800 x 600, 56Hz	pins 1 & 2 closed	pins 1 & 2 closed	pins 2 & 3 closed
800 x 600, 60Hz	pins 1 & 2 closed	pins 2 & 3 closed	pins 1 & 2 closed
800 x 600, 70Hz	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed
1024 x 768, 43Hz	pins 2 & 3 closed	pins 2 & 3 closed	pins 2 & 3 closed
1024 x 768, 60Hz	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed
1024 x 768, 70Hz	pins 2 & 3 closed	pins 2 & 3 closed	pins 2 & 3 closed

I/O BASE ADDRESS AND BASE MEMORY ADDRESS			
I/O Address	Base Memory Address	P33	P34
300h	D8000h	Closed	Closed
320h	CC000h	Open	Closed
340h	D0000h	Closed	Open
360h	D4000h	Open	Open

CPU TYPE AND SPEED CONFIGURATION				
CPU Type	Speed	P16	P17	P30
80486SX	20MHz	pins 3 & 4 closed	pins 3 & 5, 4 & 6 closed	pins 1 & 2 closed
80486SX	25MHz	Open	pins 3 & 5, 4 & 6 closed	pins 1 & 2 closed
80487SX	20MHz	pins 3 & 4 closed	pins 3 & 5, 4 & 6 closed	pins 2 & 3 closed
80487SX	25MHz	Open	pins 3 & 5, 4 & 6 closed	pins 2 & 3 closed
80486DX	25MHz	Open	pins 3 & 5, 4 & 6 closed	pins 2 & 3 closed
80486DX	33MHz	pins 1 & 2 closed	pins 3 & 5, 4 & 6 closed	pins 2 & 3 closed
80486DX	50MHz	Open	pins 1 & 3, 2 & 4 closed	pins 2 & 3 closed
80486DX2	50i MHz	Open	pins 3 & 5, 4 & 6 closed	pins 2 & 3 closed
80486DX2	66i MHz	pins 1 & 2 closed	pins 3 & 5, 4 & 6 closed	pins 2 & 3 closed