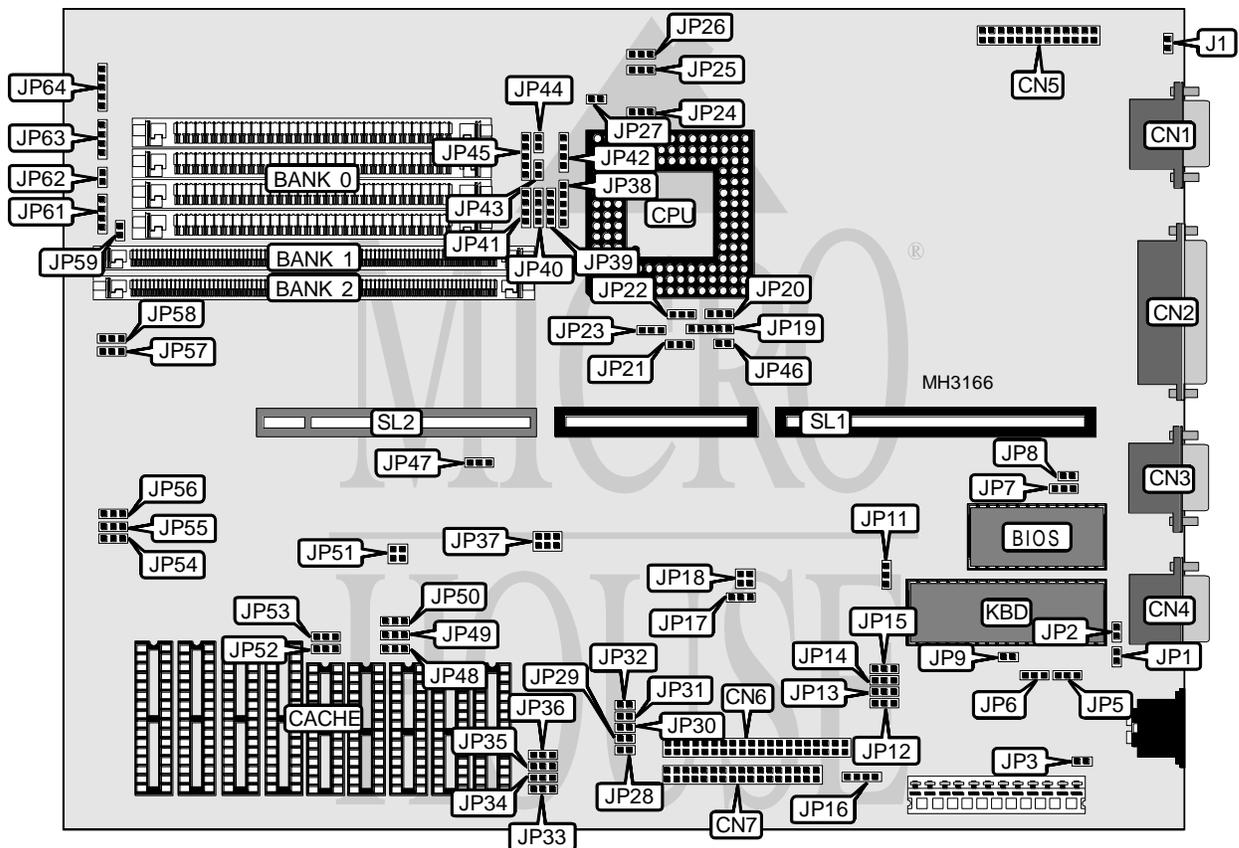


ATC/UNITRON COMPUTER & COMPUTER PARTS 486AL

Processor	CX486M6/CX486M7/AM486SXL/AM486SX(PLUS)/80486SX/AM486DXL/ 80486DX/ 80486DX2/AM486DX4(PLUS)/80486DX4/P23S/P24D/Pentium Overdrive
Processor Speed	25/33/40/50(internal)/50/66(internal)/75(internal)/80(internal)/100(internal)/ 120(internal)MHz
Chip Set	SIS
Max. Onboard DRAM	128MB
Cache	128/256/512/1024KB
BIOS	AMI/Award
Dimensions	280mm x 220mm
I/O Options	32-bit VESA local bus slot, floppy drive interface, green PC connector, IDE interface, parallel port, serial ports (2), VGA feature connector, VGA port, riser slot
NPU Options	None



Continued on next page...

ATC/UNITRON COMPUTER & COMPUTER PARTS

486AL

... continued from previous page

CONNECTIONS			
Purpose	Location	Purpose	Location
VGA port	CN1	Green PC connector	JP51
Parallel port	CN2	Green PC connector	JP59
Serial port 2	CN3	Turbo LED	JP61 pins 1 & 2
Serial port 1	CN4	Turbo switch	JP61 pins 3 & 4
VGA feature connector	CN5	Reset switch	JP62
IDE interface	CN6	Speaker	JP63
Floppy drive interface	CN7	Power LED & keylock	JP64
Power LED	J1	Riser Card	SL1
External battery	JP16	32-bit VESA local bus slot	SL2

USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
PS/2 mouse enabled	JP3	Closed
PS/2 mouse disabled	JP3	Open
í VGA BIOS enabled	JP7	pins 1 & 2 closed
VGA BIOS disabled	JP7	pins 2 & 3 closed
í Factory configured - do not alter	JP8	N/A
Monitor type select color	JP9	Closed
Monitor type select monochrome	JP9	Open
í CMOS memory normal operation	JP11	pins 1 & 2 closed
CMOS memory clear	JP11	pins 2 & 3 closed
í ECP DRQ enabled	JP12	pins 1 & 2 closed
ECP DRQ disabled	JP12	pins 2 & 3 closed
í ECP A10 enabled	JP15	pins 1 & 2 closed
ECP A10 disabled	JP15	pins 2 & 3 closed
í Parallel port IRQ select IRQ7	JP17	pins 2 & 3 closed
Parallel port IRQ select IRQ5	JP17	pins 1 & 2 closed
í Serial port IRQ select IRQ4	JP18	pins 3 & 4 closed
Serial port IRQ select IRQ3	JP18	pins 1 & 2 closed
í Factory configured - do not alter	JP24	N/A
CPU voltage regulator type select LT1085	JP25	pins 1 & 2 closed
CPU voltage regulator type select LT1085-3.3	JP25	pins 2 & 3 closed
CPU voltage regulator type select auto	JP27	Closed
CPU voltage regulator type select manual	JP27	Open
í IDE interface enabled	JP32	Open
IDE interface disabled	JP32	Closed
í CPU clock = CLKIN	JP47	pins 1 & 2 closed
CPU clock delayed for CLKIN	JP47	pins 2 & 3 closed
í Internal clock select CLKIN	JP50	pins 1 & 2 closed
Internal clock select 1/2 CLKIN	JP50	pins 2 & 3 closed

Continued on next page...

ATC/UNITRON COMPUTER & COMPUTER PARTS

486AL

... continued from previous page

DRAM CONFIGURATION 1			
Size	Bank 0	Bank 1	Bank 2
1MB	(4) 256K x 9	NONE	NONE
2MB	(4) 256K x 9	(1) 256K x 36	NONE
4MB	(4) 1M x 9	NONE	NONE
5MB	(4) 256K x 9	(1) 1M x 36	NONE
6MB	(4) 256K x 9	(1) 256K x 36	(1) 1M x 36
8MB	(4) 1M x 9	(1) 1M x 36	NONE
12MB	(4) 1M x 9	(1) 1M x 36	(1) 1M x 36
16MB	(4) 4M x 9	NONE	NONE
17MB	(4) 256K x 9	(1) 4M x 36	NONE
18MB	(4) 256K x 9	(1) 256K x 36	(1) 4M x 36
20MB	(4) 1M x 9	(1) 4M x 36	NONE
24MB	(4) 1M x 9	(1) 1M x 36	(1) 4M x 36
32MB	(4) 4M x 9	(1) 4M x 36	NONE
36MB	(4) 1M x 9	(1) 4M 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
65MB	(4) 256K x 9	(1) 16M x 36	NONE
68MB	(4) 1M x 9	(1) 16M x 36	NONE
72MB	(4) 1M x 9	(1) 1M x 36	(1) 16M x 36
80MB	(4) 4M x 9	(1) 16M x 36	NONE
96MB	(4) 4M x 9	(1) 4M x 36	(1) 16M x 36
128MB	(4) 16M x 9	(1) 16M x 36	NONE

DRAM CONFIGURATION 2			
Size	Bank 0	Bank 1	Bank 2
1MB	NONE	(1) 256K x 36	NONE
2MB	NONE	(1) 256K x 36	(1) 256K x 36
4MB	NONE	(1) 1M x 36	NONE
5MB	NONE	(1) 256K x 36	(1) 1M x 36
6MB	(4) 1M x 9	(1) 256K x 36	(1) 256K x 36
8MB	NONE	(1) 1M x 36	(1) 1M x 36
12MB	(4) 1M x 9	(1) 1M x 36	(1) 1M x 36
16MB	NONE	(1) 4M x 36	NONE
17MB	NONE	(1) 256K x 36	(1) 4M x 36
18MB	(4) 4M x 9	(1) 256K x 36	(1) 256K x 36
20MB	NONE	(1) 1M x 36	(1) 4M x 36
24MB	(4) 4M x 9	(1) 1M x 36	(1) 1M x 36
32MB	NONE	(1) 4M x 36	(1) 4M x 36
32MB	NONE	(1) 8M x 36	NONE
36MB	(4) 4M x 9	(1) 1M x 36	(1) 4M x 36
36MB	NONE	(1) 1M x 36	(1) 8M x 36
48MB	(4) 4M x 9	(1) 4M x 36	(1) 4M x 36
48MB	NONE	(1) 4M x 36	(1) 8M x 36

Continued on next page...

ATC/UNITRON COMPUTER & COMPUTER PARTS

486AL

... continued from previous page

DRAM CONFIGURATION 2 (CON'T)			
Size	Bank 0	Bank 1	Bank 2
64MB	NONE	(1) 8M x 36	(1) 8M x 36
64MB	NONE	(1) 16M x 36	NONE
65MB	NONE	(1) 256K x 36	(1) 16M x 36
68MB	NONE	(1) 1M x 36	(1) 16M x 36
72MB	(4) 16M x 9	(4) 1M x 9	(4) 1M x 9
80MB	NONE	(4) 4M x 9	(4) 16M x 9
96MB	(4) 16M x 9	(4) 4M x 9	(4) 4M x 9
128MB	NONE	(4) 16M x 9	(4) 16M x 9

DRAM JUMPER CONFIGURATION			
Configuration	JP54	JP55	JP56
1	pins 1 & 2 closed	pins 1 & 2 closed	pins 1 & 2 closed
2	pins 2 & 3 closed	pins 2 & 3 closed	pins 2 & 3 closed

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

Note: The orientation of Banks 0 & 1 and TAG are unidentified.

CACHE JUMPER CONFIGURATION						
Size	JP33	JP34	JP35	JP36	JP52	JP53
128KB	1 & 2	1 & 2	Any setting	Any setting	1 & 2	1 & 2
256KB (A)	2 & 3	2 & 3	Any setting	Any setting	1 & 2	2 & 3
256KB (B)	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	2 & 3
512KB (A)	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3
512KB (B)	1 & 2	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
1MB	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

Continued on next page...

ATC/UNITRON COMPUTER & COMPUTER PARTS

486AL

... continued from previous page

CPU TYPE CONFIGURATION					
Type	JP19	JP20	JP21	JP22	JP23
CX486M6	N/A	2 & 3	1 & 2	2 & 3	N/A
AM486SXL	1 & 2	N/A	2 & 3	2 & 3	N/A
AM486SX(PLUS)	4 & 5	N/A	1 & 2	2 & 3	2 & 3
80486SX	1 & 2	N/A	1 & 2	2 & 3	N/A
AM486DXL	1 & 2	N/A	2 & 3	2 & 3	N/A
CX486M7	N/A	2 & 3	1 & 2	2 & 3	N/A
80486DX	1 & 2	N/A	1 & 2	2 & 3	N/A
80486DX2	1 & 2	N/A	1 & 2	2 & 3	N/A
AM486DX4(PLUS)	4 & 5	N/A	1 & 2	2 & 3	2 & 3
80486DX4	1 & 2	N/A	1 & 2	2 & 3	N/A
P23S	1 & 2	N/A	1 & 2	2 & 3	N/A
P24D	2 & 3	1 & 2	1 & 2	1 & 2	1 & 2
P24T	1 & 2	1 & 2	1 & 2	1 & 2	N/A

Note: Pins designated should be in the closed position.

CPU TYPE CONFIGURATION (CON'T)					
Type	JP38	JP39	JP40	JP41	JP42
CX486M6	2 & 3	2 & 3	N/A	1 & 2	2 & 3
AM486SXL	N/A	3 & 4	1 & 2	3 & 4	2 & 3
AM486SX(PLUS)	4 & 5	N/A	N/A	2 & 3	2 & 3
80486SX	4 & 5	N/A	N/A	2 & 3	2 & 3
AM486DXL	N/A	3 & 4	1 & 2, 3 & 4	3 & 4	1 & 2, 3 & 4
CX486M7	2 & 3	2 & 3	3 & 4	1 & 2	1 & 2, 3 & 4
80486DX	4 & 5	N/A	3 & 4	2 & 3	1 & 2, 3 & 4
80486DX2	4 & 5	N/A	3 & 4	2 & 3	1 & 2, 3 & 4
AM486DX4(PLUS)	4 & 5	N/A	3 & 4	2 & 3	1 & 2, 3 & 4
80486DX4	4 & 5	N/A	3 & 4	2 & 3	1 & 2, 3 & 4
P23S	4 & 5	N/A	3 & 4	2 & 3	2 & 3
P24D	4 & 5	N/A	3 & 4	2 & 3	1 & 2, 3 & 4
P24T	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4

Note: Pins designated should be in the closed position.

Continued on next page. . .

ATC/UNITRON COMPUTER & COMPUTER PARTS

486AL

... continued from previous page

CPU TYPE CONFIGURATION (CON'T)						
Type	JP43	JP44	JP45	JP46	JP48	JP49
CX486M6	N/A	N/A	2 & 3	N/A	N/A	N/A
AM486SXL	N/A	N/A	4 & 5	N/A	N/A	N/A
AM486SX(PLUS)	N/A	N/A	3 & 4	N/A	N/A	N/A
80486SX	N/A	N/A	3 & 4	N/A	2 & 3	1 & 2
AM486DXL	N/A	N/A	4 & 5	N/A	1 & 2	2 & 3
CX486M7	N/A	N/A	2 & 3	N/A	1 & 2	2 & 3
80486DX	2 & 3	N/A	3 & 4	N/A	2 & 3	1 & 2
80486DX2	2 & 3	N/A	3 & 4	N/A	2 & 3	1 & 2
AM486DX4(PLUS)	2 & 3	N/A	3 & 4	N/A	1 & 2	1 & 2
80486DX4	1 & 2	N/A	3 & 4	N/A	2 & 3	1 & 2
P23S	N/A	N/A	3 & 4	N/A	N/A	N/A
P24D	1 & 2, or 2 & 3	N/A	1 & 2, 3 & 4	N/A	1 & 2	1 & 2
P24T	N/A	N/A	3 & 4	1 & 2, or 2 & 3	1 & 2	1 & 2

Note: Pins designated should be in the closed position. This board also accepts SL-series CPUs & AM486DXL2, but no jumper settings are listed.

CPU SPEED CONFIGURATION	
Speed	JP37
25MHz	pins 1 & 2, 5 & 6 closed
33MHz	pins 1 & 2, 3 & 4 closed
40MHz	pins 5 & 6 closed
50iMHz	pins 1 & 2, 5 & 6 closed
50MHz	pins 3 & 4 closed
66iMHz	pins 1 & 2, 3 & 4 closed
75iMHz	pins 1 & 2, 5 & 6 closed
80iMHz	pins 5 & 6 closed
100iMHz	pins 1 & 2, 3 & 4 closed
120iMHz	pins 5 & 6 closed

CPU VOLTAGE CONFIGURATION	
Voltage	JP26
Auto detect	Open
3.3v	pins 2 & 3 closed
5v	pins 1 & 2 closed

VL BUS WAIT STATE CONFIGURATION	
Wait states	JP58
í 0 wait states	pins 1 & 2 closed
1 wait state	pins 2 & 3 closed

VL BUS SPEED CONFIGURATION	
CPU speed	JP57
í <= 33MHz	pins 1 & 2 closed
> 33MHz	pins 2 & 3 closed

Continued on next page. . .

ATC/UNITRON COMPUTER & COMPUTER PARTS

486AL

... continued from previous page

DMA CONFIGURATION		
DMA	JP13	JP14
DMA 1	pins 2 & 3 closed	pins 2 & 3 closed
í DMA 3	pins 1 & 2 closed	pins 1 & 2 closed

FLOPPY ENHANCED MODE CONFIGURATION		
Setting	JP28	JP29
í Enabled	Closed	Closed
Disabled	Open	Open

KEYBOARD CONFIGURATION				
Type	JP1	JP2	JP5	JP6
AT	Open	Open	pins 2 & 3 closed	pins 2 & 3 closed
PS/2	Closed	Closed	pins 1 & 2 closed	pins 1 & 2 closed

MEDIA DETECT CONFIGURATION		
Setting	JP30	JP31
Enabled	Closed	Closed
í Disabled	Open	Open

MISCELLANEOUS TECHNICAL NOTE
Note: The location of pin 1 is unidentified.