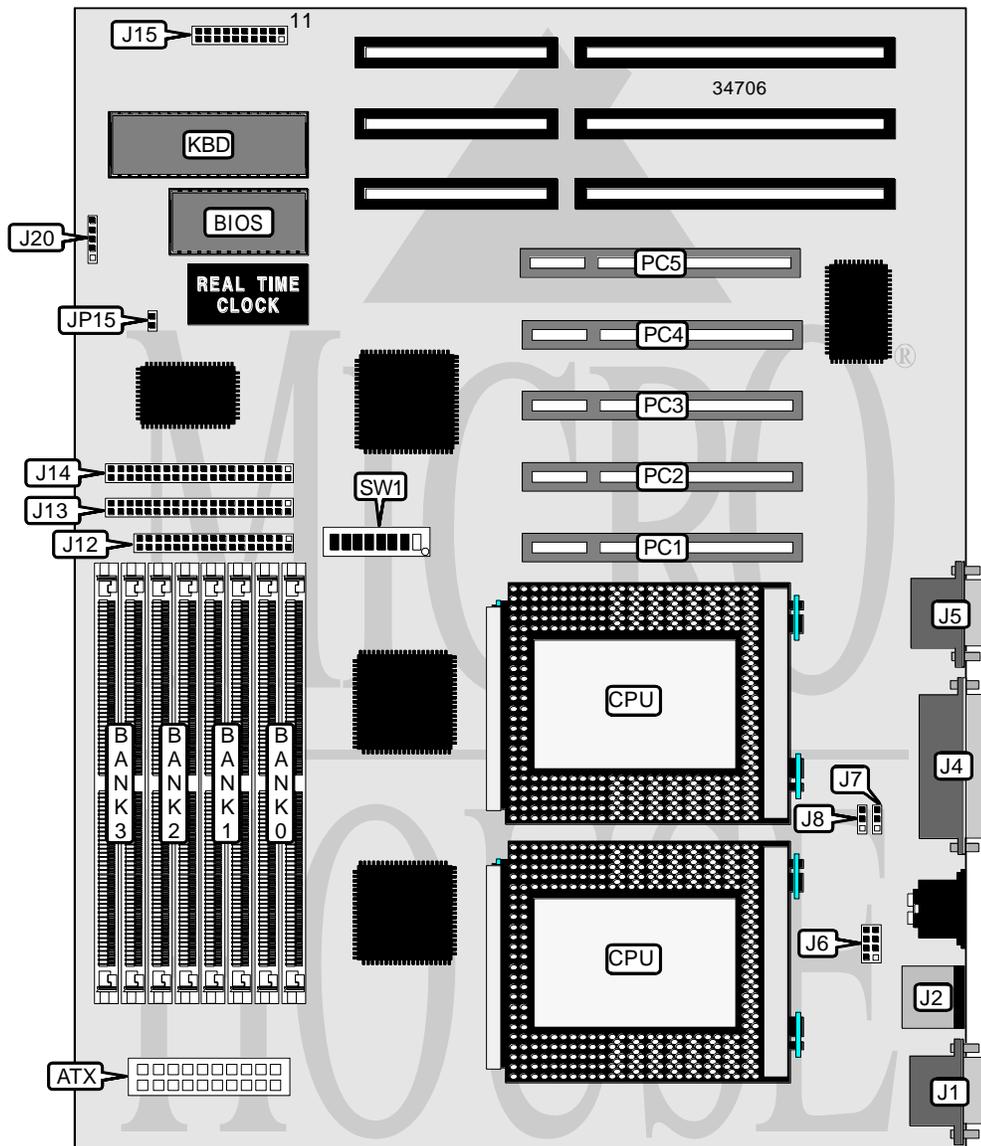


# GENOA SYSTEMS CORPORATION

## TURBOEXPRESS 686DP ATX

<b>Processor</b>	Pentium Pro
<b>Processor Speed</b>	150/166/180/200MHz
<b>Chip Set</b>	Intel
<b>Video Chip Set</b>	None
<b>Maximum Onboard Memory</b>	512MB (EDO supported)
<b>Maximum Video Memory</b>	None
<b>Cache</b>	256/512KB (located on Pentium Pro CPU)
<b>BIOS</b>	AMI
<b>Dimensions</b>	305mm x 244mm
<b>I/O Options</b>	32-bit PCI slots (5), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, USB connector, ATX power connector
<b>NPU Options</b>	None



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TURBOEXPRESS 686DP ATX

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CONNECTIONS			
Purpose	Location	Purpose	Location
ATX power connector	ATX	IDE interface 1	J14
Serial port 1	J1	Speaker	J15/pins 1 - 4
PS/2 mouse port	J2	Green PC connector	J15/pins 6 & 16
Parallel port	J4	Soft off power supply	J15/pins 7 & 17
Serial port 2	J5	Turbo LED	J15/pins 8 & 18
USB connector	J6	Reset switch	J15/pins 9 & 19
CPU fan power	J7	IDE interface LED	J15/pins 10 & 20
CPU fan power	J8	Power LED & keylock	J15/pins 11 - 15
Floppy drive interface	J12	IR connector	J20
IDE interface 2	J13	32-bit PCI slots	PC1 – PC5

USER CONFIGURABLE SETTINGS		
Function	Label	Position
CMOS memory normal operation	JP15	Open
CMOS memory clear	JP15	Closed

SIMM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
8MB	(2) 1M x 36	None	None	None
16MB	(2) 2M x 36	None	None	None
16MB	(2) 1M x 36	(2) 1M x 36	None	None
24MB	(2) 1M x 36	(2) 1M x 36	(2) 1M x 36	None
24MB	(2) 1M x 36	(2) 2M x 36	None	None
32MB	(2) 4M x 36	None	None	None
32MB	(2) 1M x 36			
32MB	(2) 2M x 36	(2) 2M x 36	None	None
40MB	(2) 1M x 36	(2) 2M x 36	(2) 2M x 36	None
40MB	(2) 1M x 36	(2) 4M x 36	None	None
48MB	(2) 2M x 36	(2) 2M x 36	(2) 2M x 36	None
48MB	(2) 2M x 36	(2) 4M x 36	None	None
64MB	(2) 8M x 36	None	None	None
64MB	(2) 2M x 36			
64MB	(2) 4M x 36	(2) 4M x 36	None	None
72MB	(2) 1M x 36	(2) 4M x 36	(2) 4M x 36	None
72MB	(2) 1M x 36	(2) 8M x 36	None	None
80MB	(2) 2M x 36	(2) 4M x 36	(2) 4M x 36	None
80MB	(2) 2M x 36	(2) 8M x 36	None	None
96MB	(2) 4M x 36	(2) 4M x 36	(2) 4M x 36	None
96MB	(2) 4M x 36	(2) 8M x 36	None	None
128MB	(2) 4M x 36			
128MB	(2) 8M x 36	(2) 8M x 36	None	None
136MB	(2) 1M x 36	(2) 8M x 36	(2) 8M x 36	None

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SIMM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
144MB	(2) 2M x 36	(2) 8M x 36	(2) 8M x 36	None
160MB	(2) 4M x 36	(2) 8M x 36	(2) 8M x 36	None
192MB	(2) 8M x 36	(2) 8M x 36	(2) 8M x 36	None
256MB	(2) 16M x 36	(2) 16M x 36	None	None
384MB	(2) 16M x 36	(2) 16M x 36	(2) 16M x 36	None
512MB	(2) 16M x 36			

Note: Board accepts EDO memory.

CACHE CONFIGURATION
Note: 256KB/512KB cache is located on the Pentium Pro CPU.

CPU SPEED SELECTION						
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
150MHz	60MHz	2.5x	On	Off	On	Off
166MHz	66MHz	2.5x	Off	On	Off	On
180MHz	60MHz	3x	On	Off	On	Off
200MHz	66MHz	3x	Off	On	Off	On

CPU SPEED SELECTION (CON'T)						
CPU speed	Clock speed	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
150MHz	60MHz	2.5x	Off	On	On	On
166MHz	66MHz	2.5x	Off	On	On	On
180MHz	60MHz	3x	On	Off	On	On
200MHz	66MHz	3x	On	Off	On	On