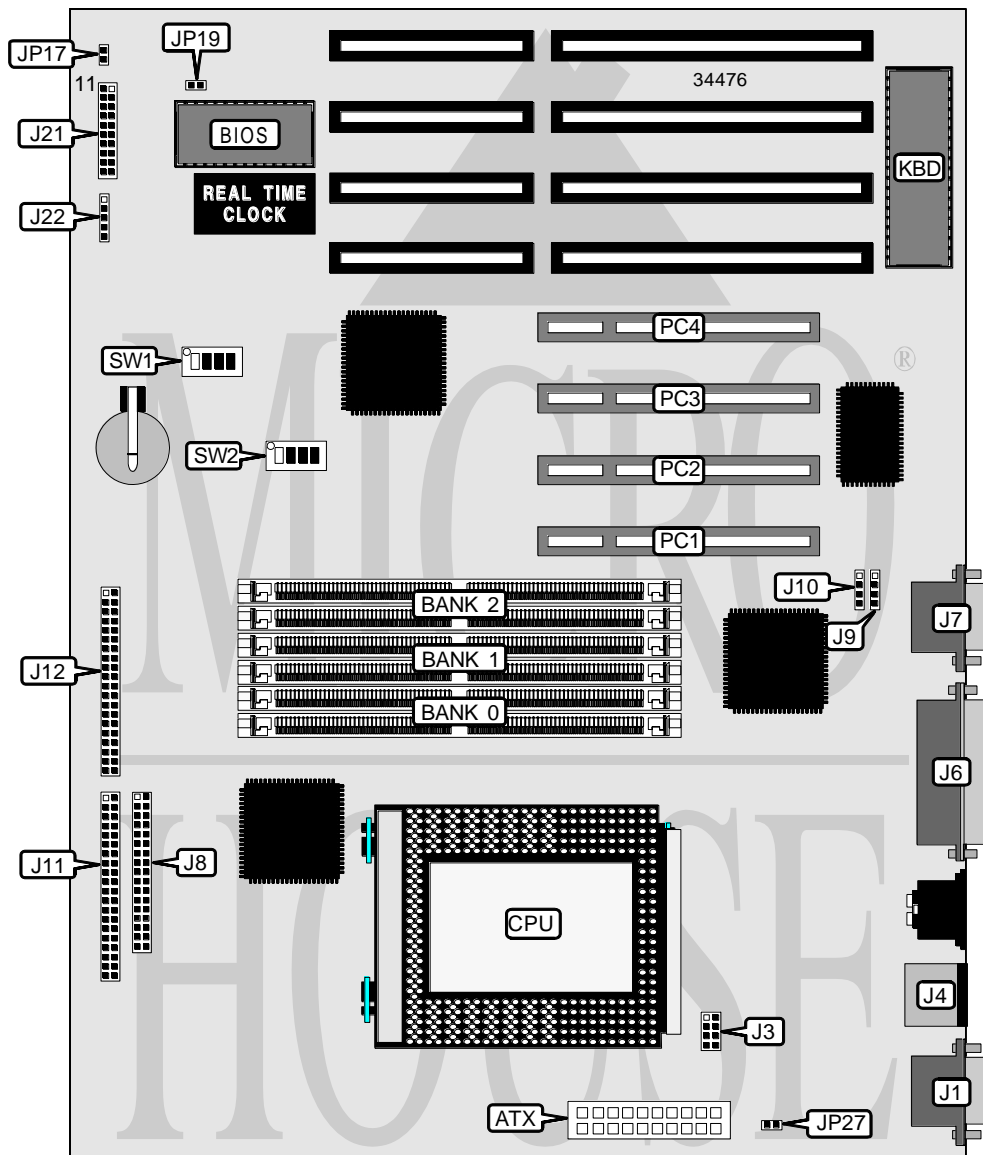


GENOA SYSTEMS CORPORATION TURBOEXPRESS 686SP

Processor	Pentium Pro
Processor Speed	150/166/180/200MHz
Chip Set	Intel
Video Chip Set	None
Maximum Onboard Memory	384MB (EDO supported)
Maximum Video Memory	None
Cache	256/512KB (located on Pentium Pro CPU)
BIOS	AMI
Dimensions	305mm x 244mm
I/O Options	32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, USB connectors (2), ATX power connector
NPU Options	None



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CONNECTIONS			
Purpose	Location	Purpose	Location
ATX power connector	ATX	Green PC connector	J21/pins 6 & 16
Serial port 1	J1	Soft off power supply	J21/pins 7 & 17
PS/2 mouse port	J4	Turbo LED	J21/pins 8 & 18
Parallel port	J6	Reset switch	J21/pins 9 & 19
Serial port 2	J7	IDE interface LED	J21/pins 10 & 20
Floppy drive interface	J8	Power LED & keylock	J21/pins 11 - 15
USB connector	J9	IR connector	J22
USB connector	J10	Power on/off switch	JP17
IDE interface 2	J11	Chassis fan power	JP27
IDE interface 1	J12	32-bit PCI slots	PC1 – PC4
Speaker	J21/pins 1 - 4		

USER CONFIGURABLE SETTINGS		
Function	Label	Position
í Factory configured – do not alter	J3	Unidentified
í CMOS memory normal operation	JP19	Open
CMOS memory clear	JP19	Closed

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

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DRAM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 1	Bank 2
144MB	(2) 2M x 36	(2) 8M x 36	(2) 8M x 36
160MB	(2) 4M x 36	(2) 8M x 36	(2) 8M x 36
192MB	(2) 8M x 36	(2) 8M x 36	(2) 8M x 36
256MB	(2) 16M x 36	(2) 16M x 36	None
384MB	(2) 16M x 36	(2) 16M x 36	(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	SW2/1	SW2/2	SW2/3	SW2/4
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