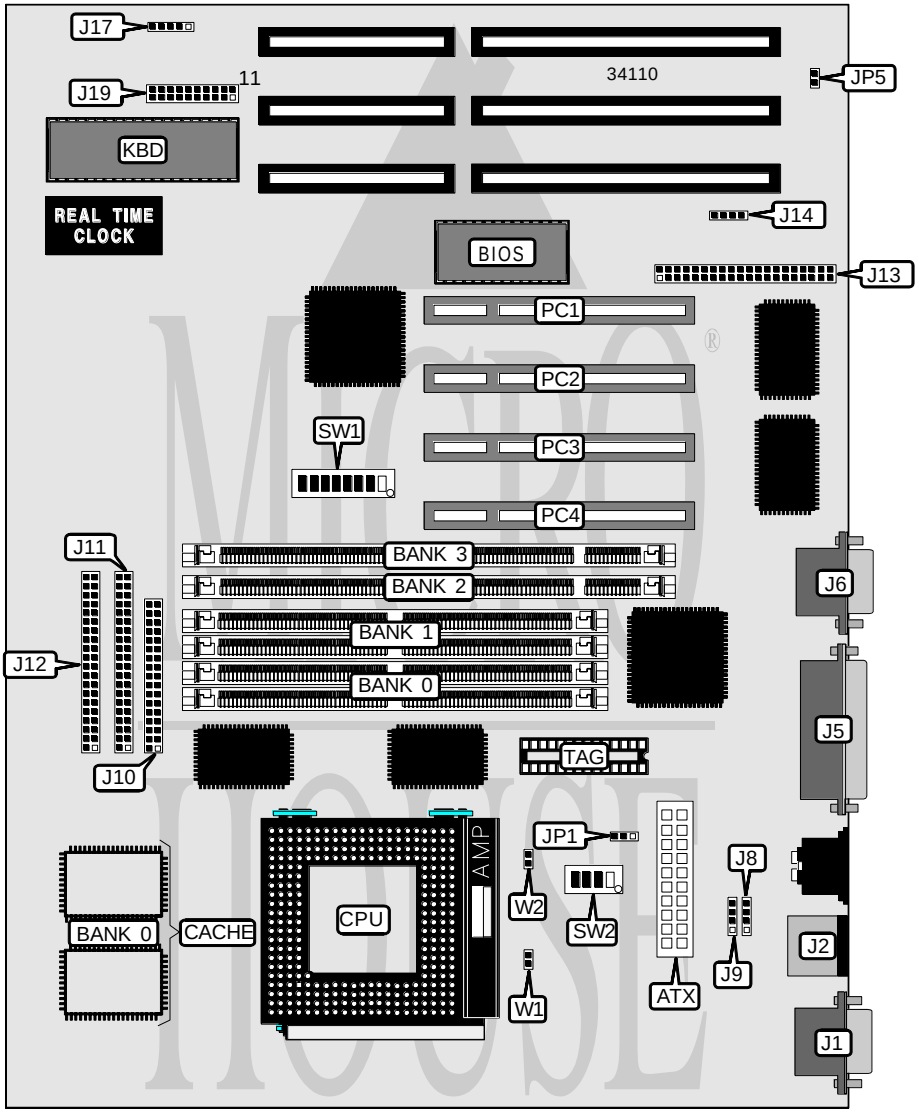
GENOA SYSTEMS CORPORATION
TURBOEXPRESS 586 VX (ATX VERSION)

Processor	CX M1/AM K5/Pentium
Processor Speed	75/90/100/120/133/150/166/200MHz
Chip Set	Intel
Video Chip Set	None
Maximum Onboard Memory	128MB (EDO supported)
Maximum Video Memory	None
Cache	256/512KB
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	IR connector	J17
Serial port 1	J1	Speaker	J19 pins 1 - 4
PS/2 mouse port	J2	Green PC connector	J19 pins 6 & 16
Parallel port	J5	Soft on power	J19 pins 7 & 17
Serial port 2	J6	Turbo LED	J19 pins 8 & 18
USB connector	J8	Reset switch	J19 pins 9 & 19
USB connector	J9	IDE interface LED	J19 pins 10 & 20
Floppy drive interface	J10	Power LED & keylock	J19 pins 11 - 15
IDE interface 2	J11	Chassis fan power	JP1
IDE interface 1	J12	32-bit PCI slots	PC1 – PC4

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
í Factory configured - do not alter	J13	Unidentified
í Factory configured - do not alter	J14	Unidentified
í Factory configured - do not alter	JP5	Unidentified
í CMOS memory normal operation	SW1/7	Off
CMOS memory clear	SW1/7	On
í Factory configured - do not alter	SW1/8	Unidentified

DRAM CONFIGURATION		
Size	**Bank 0**	**Bank 1**
8MB	(2) 1M x 36	None
16MB	(2) 2M x 36	None
16MB	(2) 1M x 36	(2) 1M x 36
24MB	(2) 2M x 36	(2) 1M x 36
32MB	(2) 4M x 36	None
32MB	(2) 2M x 36	(2) 2M x 36
40MB	(2) 4M x 36	(2) 1M x 36
48MB	(2) 4M x 36	(2) 2M x 36
64MB	(2) 8M x 36	None
64MB	(2) 4M x 36	(2) 4M x 36
72MB	(2) 8M x 36	(2) 1M x 36
80MB	(2) 8M x 36	(2) 2M x 36
96MB	(2) 8M x 36	(2) 4M x 36
128MB	(2) 8M x 36	(2) 8M x 36
Note: Board accepts EDO memory.		

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

CACHE CONFIGURATION		
Size	**Bank 0**	**TAG**
256KB	(2) 32K x 32	Unidentified
512KB	(2) 64K x 32	Unidentified

CPU SPEED SELECTION (CYRIX)								
CPU speed	**Clock speed**	**Multiplier**	**SW1/1**	**SW1/2**	**SW1/3**	**SW1/4**	**SW1/5**	**SW1/6**
120MHz	50MHz	2x	On	On	On	Off	On	Off
133MHz	55MHz	2x	On	On	Off	Off	On	Off
150MHz	60MHz	2x	Off	On	On	Off	On	Off
166MHz	66MHz	2x	On	Off	On	Off	On	Off

CPU SPEED SELECTION (AMD)								
CPU speed	**Clock speed**	**Multiplier**	**SW1/1**	**SW1/2**	**SW1/3**	**SW1/4**	**SW1/5**	**SW1/6**
75MHz	50MHz	1.5x	On	On	On	Off	Off	Off
90MHz	60MHz	1.5x	Off	On	On	Off	Off	Off
100MHz	66MHz	1.5x	On	Off	On	Off	Off	Off
120MHz	60MHz	1.5x	Off	On	On	Off	Off	Off
133MHz	66MHz	1.5x	On	Off	On	Off	Off	Off
150MHz	60MHz	2x	Off	On	On	Off	On	Off
166MHz	66MHz	2x	On	Off	On	Off	On	Off

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CPU SPEED SELECTION (INTEL)								
CPU speed	**Clock speed**	**Multiplier**	**SW1/1**	**SW1/2**	**SW1/3**	**SW1/4**	**SW1/5**	**SW1/6**
75MHz	50MHz	1.5x	On	On	On	Off	Off	Off
90MHz	60MHz	1.5x	Off	On	On	Off	Off	Off
100MHz	66MHz	1.5x	On	Off	On	Off	Off	Off
120MHz	60MHz	2x	Off	On	On	Off	On	Off
133MHz	66MHz	2x	On	Off	On	Off	On	Off
150MHz	60MHz	2.5x	Off	On	On	Off	On	On
166MHz	66MHz	2.5x	On	Off	On	Off	On	On
200MHz	66MHz	3x	On	Off	On	Off	Off	On

CPU VOLTAGE SELECTION						
Voltage	**SW2/1**	**SW2/2**	**SW2/3**	**SW2/4**	**W1**	**W2**
3.5v	On	On	On	On	Closed	Open

CPU VOLTAGE SELECTION							
Voltage	**V core**	**SW2/1**	**SW2/2**	**SW2/3**	**SW2/4**	**W1**	**W2**
3.3v	2.5v	On	Off	On	Off	Open	Closed
3.3v	2.6v	Off	On	On	Off	Open	Closed
3.3v	2.7v	On	On	On	Off	Open	Closed
3.3v	2.8v	Off	Off	Off	On	Open	Closed
3.3v	2.9v	On	Off	Off	On	Open	Closed
3.3v	3.0v	Off	On	Off	On	Open	Closed
3.3v	3.4v	Off	On	On	On	Open	Closed
3.3v	3.5v	On	On	On	On	Open	Closed