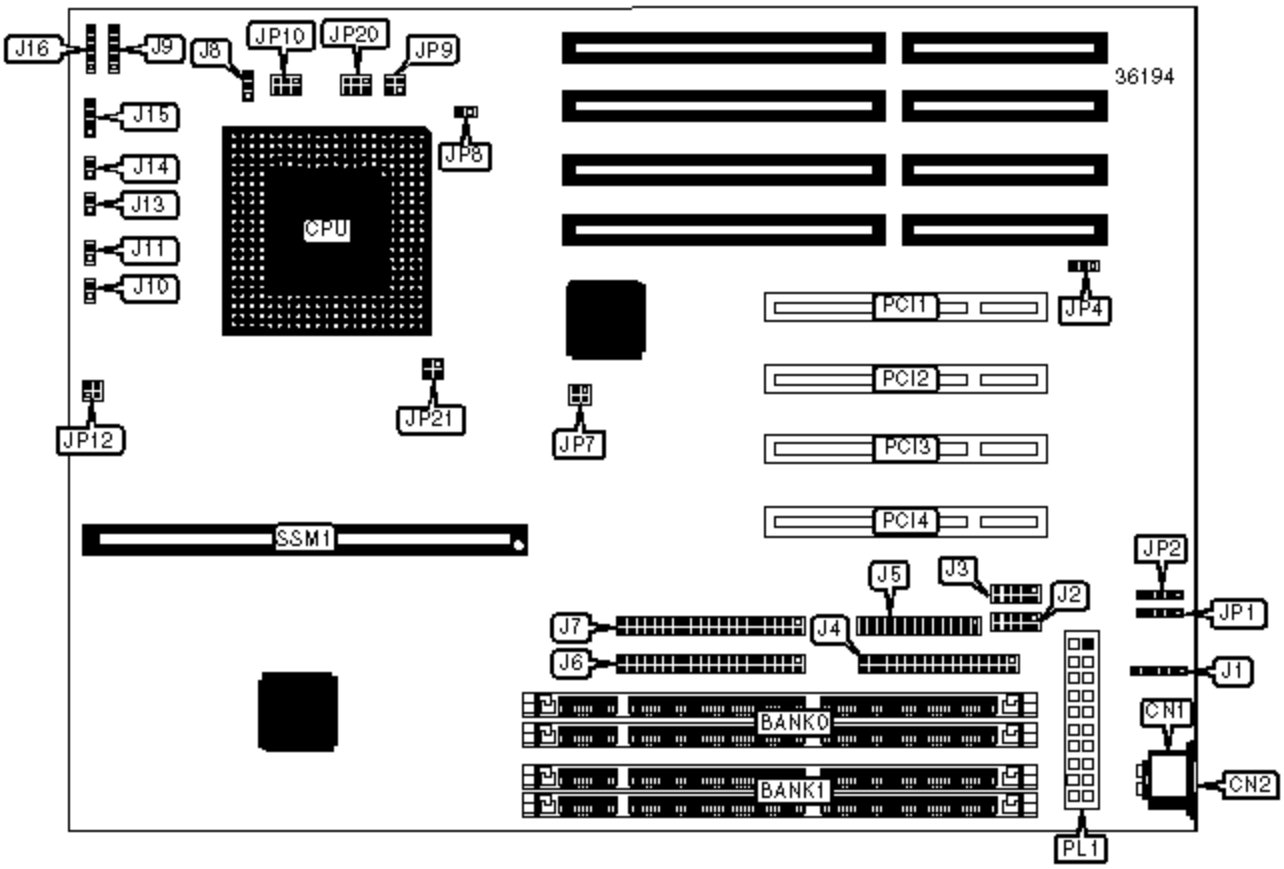
PHILIPS CONSUMER ELECTRONICS

E552

Device Type	Mainboard
Processor	AMK5/AMK6/CX 6x86/Pentium/MMX/Pentium OverDrive/
Processor Speed	75/90/100/120/133/150/166/180/200/233
Chip Set	Intel
Maximum Onboard Memory	256MB DRAM (EDO supported)
Cache	256/512
BIOS	Award
I/O Options	32-bit PCI slots (4), floppy drive interface, IDE interface (2), parallel port, serial ports (2), PS/2 mouse port, PS/2 or AT keyboard port/USB connectors (2) IR connector/green PC connector
Dimensions	250mm x 220mm



CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
PS/2 mouse connector	J1	Green PC connector	J13
Serial port 1	J2	Reset switch	J14
Serial port 2	J3	Speaker	J15
Floppy drive interface	J4	Power LED & keylock	J16
Parallel port	J5	PS/2 keyboard connector	CN1
IDE interface 1	J6	AT keyboard connector	CN2
IDE interface 2	J7	Power connector	PL1

IDE interface 2	J7	Power connector	PL1
Fan connector	J8	USB connector	JP1
IR connector	J9	USB connector	JP2
IDE interface LED	J10	Cache slot	SSM1
Green PC LED	J11	32-bit PCI slots	PCI1-4

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
»	Display adapter set to color	JP4	Pins 1&2 closed
	Display adapter set to mono	JP4	Pins 2&3 closed
»	CMOS memory normal operation	JP8	open
	CMOS memory clear	JP8	closed

DRAM CONFIGURATION		
Size	**Bank 0**	**Bank 1**
8MB	(2) 1MB x 36	None
16MB	(2) 2MB x 36	None
16MB	(2) 1MB x 36	(2) 1MB x 36
24MB	(2) 1MB x 36	(2) 2MB x 36
32MB	(2) 4MB x 36	None
32MB	(2) 2MB x 36	(2) 2MB x 36
40MB	(2) 1MB x 36	(2) 4MB x 36
48MB	(2) 2MB x 36	(2) 4MB x 36
64MB	(2) 8MB x 36	None
64MB	(2) 4MB x 36	(2) 4MB x 36
72MB	(2) 1MB x 36	(2) 8MB x 36
80MB	(2) 8MB x36	(2) 2MB x 36
96MB	(2) 4MB x 36	(2) 8MB x 36

96MB	(2) 1MB x 36	(2) 8MB x 36
128MB	(2) 16MB x 36	None
128MB	(2) 8MB x 36	(2) 8MB x 36
136MB	(2) 1MB x 36	(2) 16MB x 36
144MB	(2) 2MB x 36	(2) 16MB x 36
160MB	(2) 4MB x 36	(2) 16MB x 36
192MB	(2) 8MB x 36	(2) 8MB x 36
192 MB	(2) 16MB x 36	(2) 8MB x 36
256 MB	(2) 16MB x 36	(2) 16MB x 36
Note: Banks 0 & 1 are interchangable.		

CACHE CONFIGURATION
Note: The G586IPC come with 256KB or 512KB cache installed (location unidentified). If it has 256KB installed it may be upgraded to 512KB by adding 256KB in slot SSM1.

CPU SPEED SELECTION (CX 6X86)				
Speed	**Clock speed**	**Multiplier**	**JP7**	**JP12**
120MHz	50MHz	2x	1 & 2 closed, 3 & 4 closed	Pins 1 & 2 closed
133MHz	55MHz	2x	Open	Pins 1 & 2 closed
150MHz	60MHz	2x	Pins 1 & 2 closed	Pins 1 & 2 closed
166MHz	66Mhz	2x	Pins 3 & 4 closed	Pins 1 & 2 closed

CPU SPEED SELECTION (AM K5)				
Speed	**Clock speed**	**Multiplier**	**JP7**	**JP12**
75MHz	50MHz	1.5x	1 & 2 closed, 3 & 4 closed	Open
90MHz	60 MHz	1.5x	Pins 1 & 2 closed	Open
100MHz	66MHz	1.5x	Pins 3 & 4 closed	Open
120MHz	60MHz	1.5x	Pins 1 & 2 closed	Open

133MHz	66MHz	1.5x	Pins 3 & 4 closed	Open
166MHz	66MHz	1.75x	Pins 3 & 4 closed	1 & 2 closed, 3 & 4 closed

CPU SPEED SELECTION (AM K6)				
Speed	**Clock speed**	**Multiplier**	**JP7**	**JP12**
166MHz	66MHz	1.75x	Pins 3 & 4 closed	1 & 2 closed, 3 & 4 closed

CPU SPEED SELECTION (INTEL)				
Speed	**Clock speed**	**Multiplier**	**JP7**	**JP12**
75MHz	50MHz	1.5x	1 & 2 closed, 3 & 4 closed	Open
90MHz	60MHz	1.5x	Pins 1 & 2 closed	Open
100MHz	66MHz	1.5x	Pins 3 & 4 closed	Open
120MHz	60MHz	2x	Pins 1 & 2 closed	Pins 1 & 2 closed
133MHz	66MHz	2x	Pins 3 & 4 closed	Pins 1 & 2 closed
150MHz	60MHz	2.5x	Pins 1 & 2 closed	1 & 2 closed, 3 & 4 closed
166MHz	66MHz	2.5x	Pins 3 & 4 closed	1 & 2 closed, 3 & 4 closed
200MHz	66MHz	3x	Pins 3 & 4 closed	Pins 3 & 4 closed

CPU SPEED SELECTION (INTEL MMX)				
Speed	**Clock speed**	**Multiplier**	**JP7**	**JP12**
166MHz	66MHz	2.5x	Pins 3 & 4 closed	1 & 2 closed, 3 & 4 closed
200MHz	66MHz	3x	Pins 3 & 4 closed	Pins 3 & 4 closed
233MHz	66MHz	3.5x	Pins 3 & 4 closed	Open

CPU VOLTAGE SELECTION				
Voltage	**JP9**	**JP10**	**JP20**	**JP21**
2.5V	3&4 closed	1 & 3 , 2 & 4	5 & 6 closed	Open

2.8V	3&4 closed	1 & 3 , 2 & 4	3 & 4 closed	Open
2.9V	3&4 closed	1 & 3 , 2 & 4	1 & 2 closed	Open
3.3V	3&4 closed	3 & 5 , 4 & 6	3 & 4 closed	1 & 2 , 3 & 4
3.5V	1&2	3 & 5 , 4 & 6	3 & 4	1 & 2 , 3 & 4
Note: Numbers designate pins that should be in the closed position.				