INTEL CORPORATION

MS440GX

Device Type	Mainboard
Processor	Pentium II
Processor Speed	400/450MHz
Chip Set	Intel 440GX
Maximum Onboard Memory	2GB (SDRAM & PC100 supported)
Audio Chip Set	Crystal
Cache	1024KB
BIOS	Unidentified
Dimensions	305mm x 244mm
I/O Options	32-bit PCI slots (6), Ethernet 10BaseT connector, floppy drive interface, game interface, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, VRM connector, USB connectors (2), ATX power connectors (2), AGP slot, line in, line out, microphone in, audio in – CD-ROM, wake on LAN connector, wake on modem connector
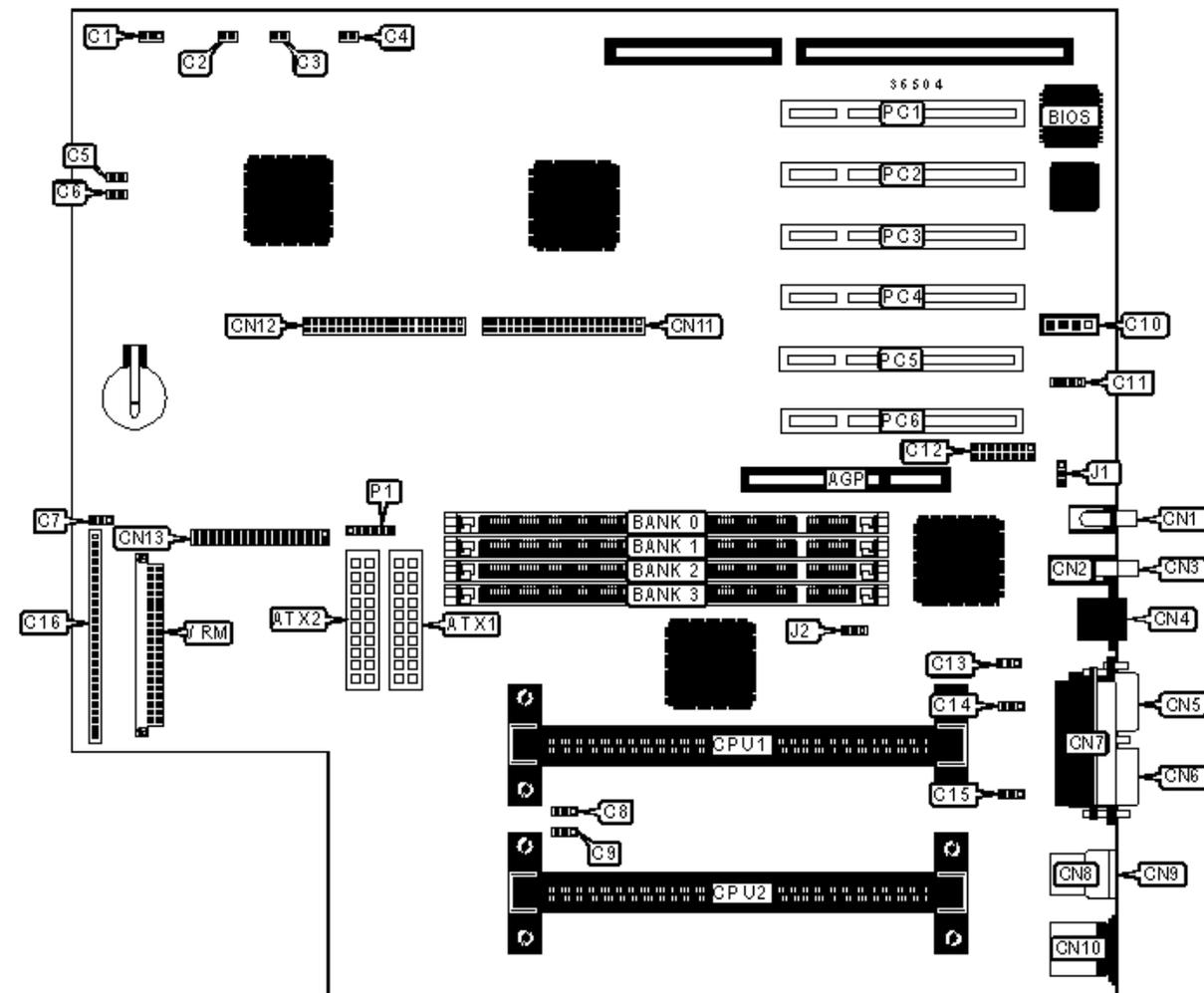
CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
AGP slot	AGP	IDE interface LED	C16/pins 12 – 15
ATX power connector	ATX1	IR connector	C16/pins 17 – 22

ATX power connector	ATX2	Soft off power supply	C16/pins 26 & 27
Chassis fan power	C1	Wake on LAN connector	C17
Speaker	C2	Microphone in	CN1
SCSI interface LED	C3	Line in	CN2
Wake on modem connector	C4	Line out	CN3
Chassis intrusion connector	C5	Ethernet 10BaseT connector	CN4
Chassis intrusion connector	C6	Serial port 2	CN5
Chassis fan power	C7	Serial port 1	CN6
CPU fan power	C8	Parallel port	CN7
CPU fan power	C9	USB connector 1	CN8
Audio in – CD-ROM	C10	USB connector 2	CN9
Telephony connector	C11	PS/2 mouse port	CN10
Game interface	C12	IDE interface	CN11
Chassis fan power	C13	IDE interface	CN12
CPU fan power	C14	Floppy drive interface	CN13
CPU fan power	C15	5v auxiliary power	P1
Speaker	C16/pins 1 – 4	32-bit PCI slots	PC1 – PC6
Reset switch	C16/pins 5 & 6	VRM connector	VRM
Power LED/green PC LED	C16/pins 8 – 10		

USER CONFIGURABLE SETTINGS			
	Function	Label	Position
»	Factory configured - do not alter	J1	Unidentified
»	CMOS memory normal operation	J4J1	Pins 1 & 2 closed
	CMOS memory clear	J4J1	Pins 2 & 3 closed
Note: The location of J4J1 is unidentified.			

DIMM CONFIGURATION			
Size	Bank 0	Bank 1	Bank 2	Bank 3
8MB	(1) 1M x 64	None	None	None

16MB	(1) 2M x 64	None	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None	None
24MB	(1) 2M x 64	(1) 1M x 64	None	None
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64	None
32MB	(1) 4M x 64	None	None	None
32MB	(1) 2M x 64	(1) 2M x 64	None	None
32MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64
40MB	(1) 4M x 64	(1) 1M x 64	None	None
48MB	(1) 4M x 64	(1) 2M x 64	None	None
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64	None
64MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
64MB	(1) 8M x 64	None	None	None
64MB	(1) 4M x 64	(1) 4M x 64	None	None
72MB	(1) 8M x 64	(1) 1M x 64	None	None
80MB	(1) 8M x 64	(1) 2M x 64	None	None
96MB	(1) 8M x 64	(1) 4M x 64	None	None
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64	None
128MB	(1) 16M x 64	None	None	None
128MB	(1) 8M x 64	(1) 8M x 64	None	None
128MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
136MB	(1) 16M x 64	(1) 1M x 64	None	None
144MB	(1) 16M x 64	(1) 2M x 64	None	None
176MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
192MB	(1) 16M x 64	(1) 8M x 64	None	None
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64	None
256MB	(1) 32M x 64	None	None	None
256MB	(1) 16M x 64	(1) 16M x 64	None	None
256MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
272MB	(1) 16M x 64	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
280MB	(1) 32M x 64	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64
288MB	(1) 16M x 64	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
320MB	(1) 16M x 64	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64

384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64	None
448MB	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
512MB	(1) 64M x 64	None	None	None
512MB	(1) 32M x 64	(1) 32M x 64	None	None
512MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64
640MB	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64
768MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64	None
1024MB	(1) 64M x 64	(1) 64M x 64	None	None
1024MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64
1536MB	(1) 64M x 64	(1) 64M x 64	(1) 64M x 64	None
2048MB	(1) 64M x 64	(1) 64M x 64	(1) 64M x 64	(1) 64M x 64

Note: Board accepts SDRAM & PC100 memory.

CACHE CONFIGURATION

Note: 1MB cache is located on the Pentium II CPU.

BIOS SELECTION

Setting	J2
Normal operation	Pins 1 & 2 closed
Configuration mode	Pins 2 & 3 closed
Recovery mode	Open