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GOLIATH QUAD

Processor	Pentium Pro
Processor Speed	133/150/180/200/233/240/283/300/325MHz
Chip Set	Intel
Video Chip Set	None
Maximum Onboard Memory	1GB (EDO supported)
Maximum Video Memory	None
Cache	256/512KB (located on Pentium Pro CPU)
BIOS	AMI
Dimensions	333mm x 305mm
I/O Options	External memory card slot, 32-bit PCI slots (6), floppy drive interface, IDE interface, parallel port, PS/2 mouse interface, serial ports (2), VRM connectors (4), CPU slots (2)
NPU Options	None
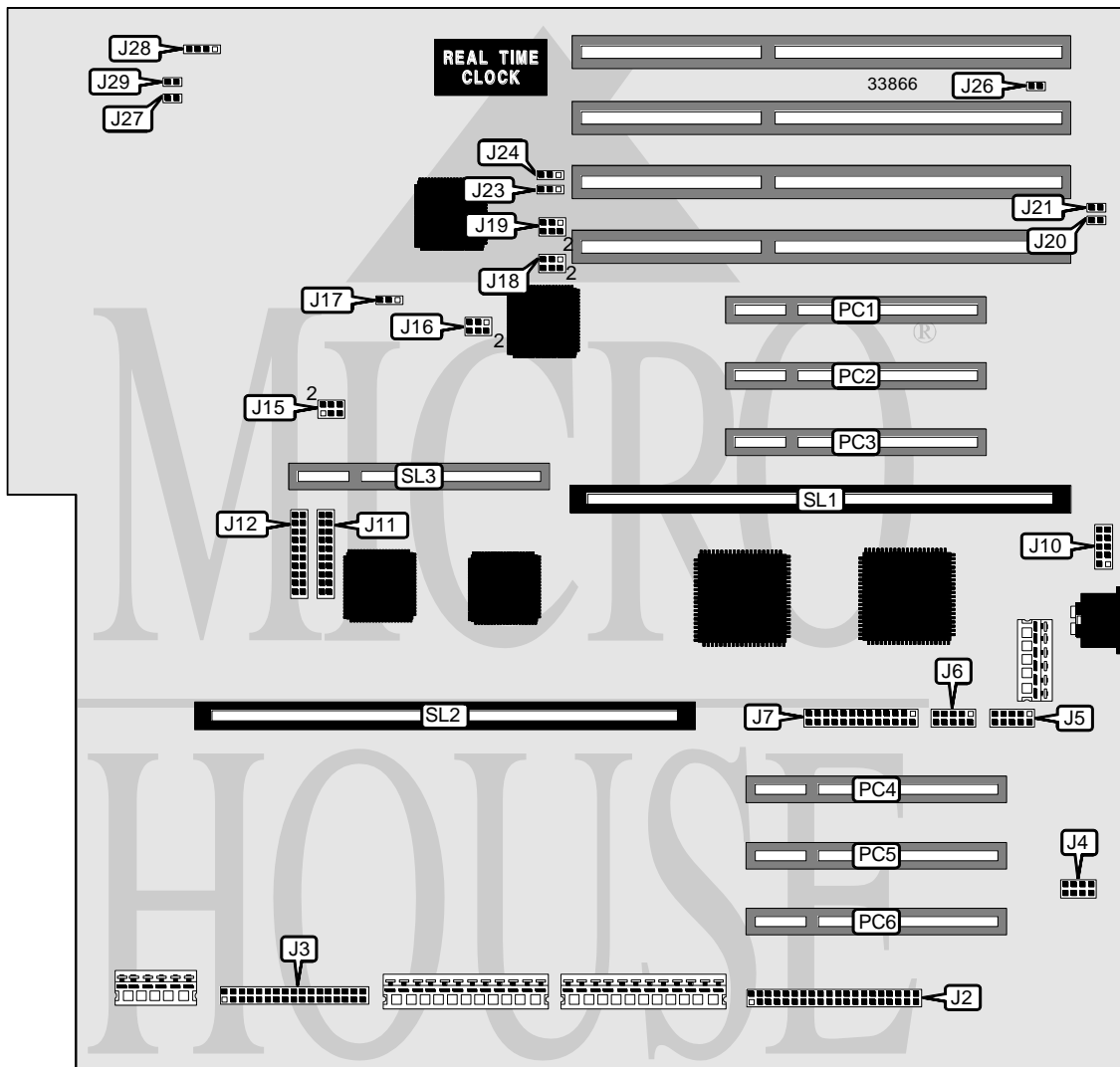
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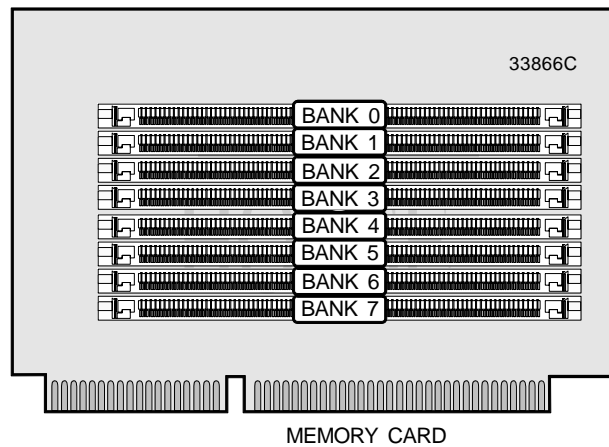# GOLIATH QUAD

CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
IDE interface	J2	Reset switch	J27
Floppy drive interface	J3	Speaker	J28
Serial port 1	J5	IDE interface LED	J29
Serial port 2	J6	CPU slot	SL1
Parallel port	J7	CPU slot	SL2
PS/2 mouse interface	J10	External memory card	SL3
Power LED & keylock	J22	32-bit PCI slots	PC1 - PC6
Note: The location of J22 is unidentified.			

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
í Factory configured - do not alter	J4	Open
í Factory configured - do not alter	J17	Pins 2 & 3 closed
í Factory configured - do not alter	J20	Open
IDE DREQ enabled	J21	Closed
IDE DREQ disabled	J21	Open
í Parallel port IRQ select IRQ7	J23	Pins 1 & 2 closed
Parallel port IRQ select IRQ5	J23	Pins 2 & 3 closed
í PS/2 mouse IRQ12 enabled	J24	Pins 1 & 2 closed
PS/2 mouse IRQ12 disabled	J24	Pins 2 & 3 closed
í Factory configured - do not alter	J26	Unidentified

MEMORY CARD

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DIMM CONFIGURATION				
Size	**Bank 0**	**Bank 1**	**Bank 2**	**Bank 3**
16MB	(1) 2M x 72	None	None	None
32MB	(1) 2M x 72	(1) 2M x 72	None	None
64MB	(1) 2M x 72	(1) 2M x 72	(1) 2M x 72	(1) 2M x 72
32MB	(1) 2M x 72	None	None	None
64MB	(1) 2M x 72	(1) 2M x 72	None	None
128MB	(1) 2M x 72	(1) 2M x 72	(1) 2M x 72	(1) 2M x 72
8MB	(1) 1M x 72	None	None	None
32MB	(1) 1M x 72	(1) 1M x 72	(1) 1M x 72	(1) 1M x 72
64MB	(1) 1M x 72	(1) 1M x 72	(1) 1M x 72	(1) 1M x 72
32MB	(1) 4M x 72	None	None	None
128MB	(1) 4M x 72	(1) 4M x 72	(1) 4M x 72	(1) 4M x 72
256MB	(1) 4M x 72	(1) 4M x 72	(1) 4M x 72	(1) 4M x 72
128MB	(1) 16M x 72	None	None	None
512MB	(1) 16M x 72	(1) 16M x 72	(1) 16M x 72	(1) 16M x 72
1GB	(1) 16M x 72	(1) 16M x 72	(1) 16M x 72	(1) 16M x 72
Note: Board accepts EDO memory. Board also accepts 8M x 72 DIMMs.				

DIMM CONFIGURATION (CON'T)				
Size	**Bank 4**	**Bank 5**	**Bank 6**	**Bank 7**
16MB	None	None	None	None
32MB	None	None	None	None
64MB	None	None	None	None
32MB	(1) 2M x 72	None	None	None
64MB	(1) 2M x 72	(1) 2M x 72	None	None
128MB	(1) 2M x 72	(1) 2M x 72	(1) 2M x 72	(1) 2M x 72
8MB	None	None	None	None
32MB	None	None	None	None
64MB	(1) 1M x 72	(1) 1M x 72	(1) 1M x 72	(1) 1M x 72
32MB	None	None	None	None
128MB	None	None	None	None
256MB	(1) 4M x 72	(1) 4M x 72	(1) 4M x 72	(1) 4M x 72
128MB	None	None	None	None
512MB	None	None	None	None
1GB	(1) 16M x 72	(1) 16M x 72	(1) 16M x 72	(1) 16M x 72
Note: Board accepts EDO memory.				

DIMM VOLTAGE CONFIGURATION		
Voltage	**J11**	**J12**
3.3v	1 & 2, 3 & 4, 5 & 6, 7 & 8, 9 & 10, 11 & 12, 13 & 14, 15 & 16, 17 & 18, 19 & 20	Open

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

CPU SPEED SELECTION			
CPU speed	**Clock speed**	**J15**	**J190**
133MHz	66MHz	1 & 2, 3 & 4, 5 & 6, 7 & 8	1 & 2, 3 & 4, 5 & 6, 7 & 8
150MHz	60MHz	1 & 2, 3 & 4, 7 & 8	1 & 2, 3 & 4, 7 & 8
180MHz	60MHz	1 & 2, 3 & 4, 5 & 6	1 & 2, 3 & 4, 5 & 6
200MHz	66MHz	1 & 2, 3 & 4, 5 & 6	1 & 2, 3 & 4, 5 & 6
233MHz	66MHz	1 & 2, 3 & 4	1 & 2, 3 & 4
240MHz	60MHz	3 & 4, 5 & 6, 7 & 8	3 & 4, 5 & 6, 7 & 8
283MHz	66MHz	3 & 4, 7 & 8	3 & 4, 7 & 8
300MHz	60MHz	3 & 4, 5 & 6	3 & 4, 5 & 6
325MHz	60MHz	3 & 4	3 & 4
Note: Pins designated should be in the closed position. The location of J190 is unidentified. J15 sets CPU card 1 and J190 sets CPU card 2.			

PCI SPEED SELECTION			
CPU speed	**External**	**Internal**	**J16**
150MHz	60MHz	30MHz	Pins 1 & 2, 5 & 6 closed
180MHz	60MHz	30MHz	Pins 1 & 2, 5 & 6 closed
200MHz	66MHz	33MHz	Pins 3 & 4 closed

DMA CHANNEL SELECTION		
Channel	**J18**	**J19**
í None	Open	Open
0	Pins 1 & 2 closed	Pins 1 & 2 closed
1	Pins 3 & 4 closed	Pins 3 & 4 closed
3	Pins 5 & 6 closed	Pins 5 & 6 closed

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CPU CARD 1
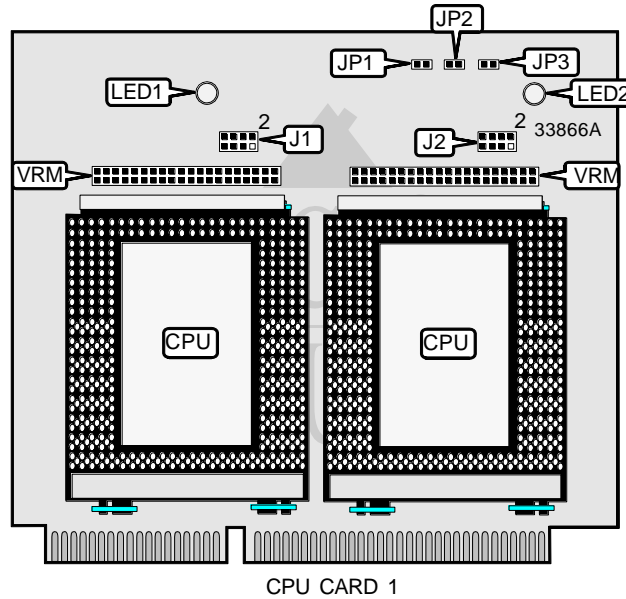
CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
Overheat LED	LED1	Chassis fan power	JP2
Overheat LED	LED2	VRM connectors	VRM
Chassis fan power	JP1		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
í Factory configured - do not alter	JP3	Closed

CPU VOLTAGE SELECTION		
Voltage	**J1**	**J2**
3.3v	Pins 1 & 2, 5 & 6, 7 & 8 closed	Pins 1 & 2, 5 & 6, 7 & 8 closed

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CPU CARD 2
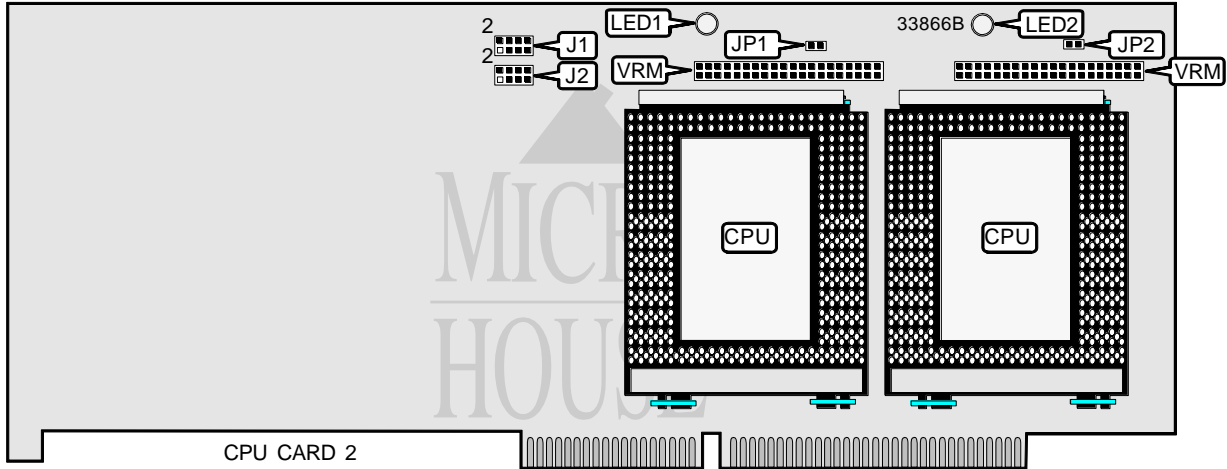
CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
Overheat LED	LED1	Chassis fan power	JP2
Overheat LED	LED2	VRM connectors	VRM
Chassis fan power	JP1		

CPU VOLTAGE SELECTION		
Voltage	**J1**	**J2**
3.3v	Pins 1 & 2, 5 & 6, 7 & 8 closed	Pins 1 & 2, 5 & 6, 7 & 8 closed

MISCELLANEOUS TECHNICAL NOTES.
Note: The LEDs on CPU Card 1 and CPU Card2 are 'overheat' indicators. If any of these LEDs come on on either card, turn computer off as soon as possible to prevent damage.
Note: If installing CPU card 1 only, insert the terminator card in CPU socket 2. Do not use CPU card 2 only