J-MARK COMPUTER CORPORATION
J-656HXA

Processor	Pentium
Processor Speed	75/90/100/120/133/150/166/200MHz
Chip Set	Intel
Video Chip Set	None
Maximum Onboard Memory	384MB
Maximum Video Memory	None
Cache	256/512KB
BIOS	Award
Dimensions	280mm x 220mm
I/O Options	32-bit PCI slots (3), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2), cache slot, IR connector
NPU Options	None
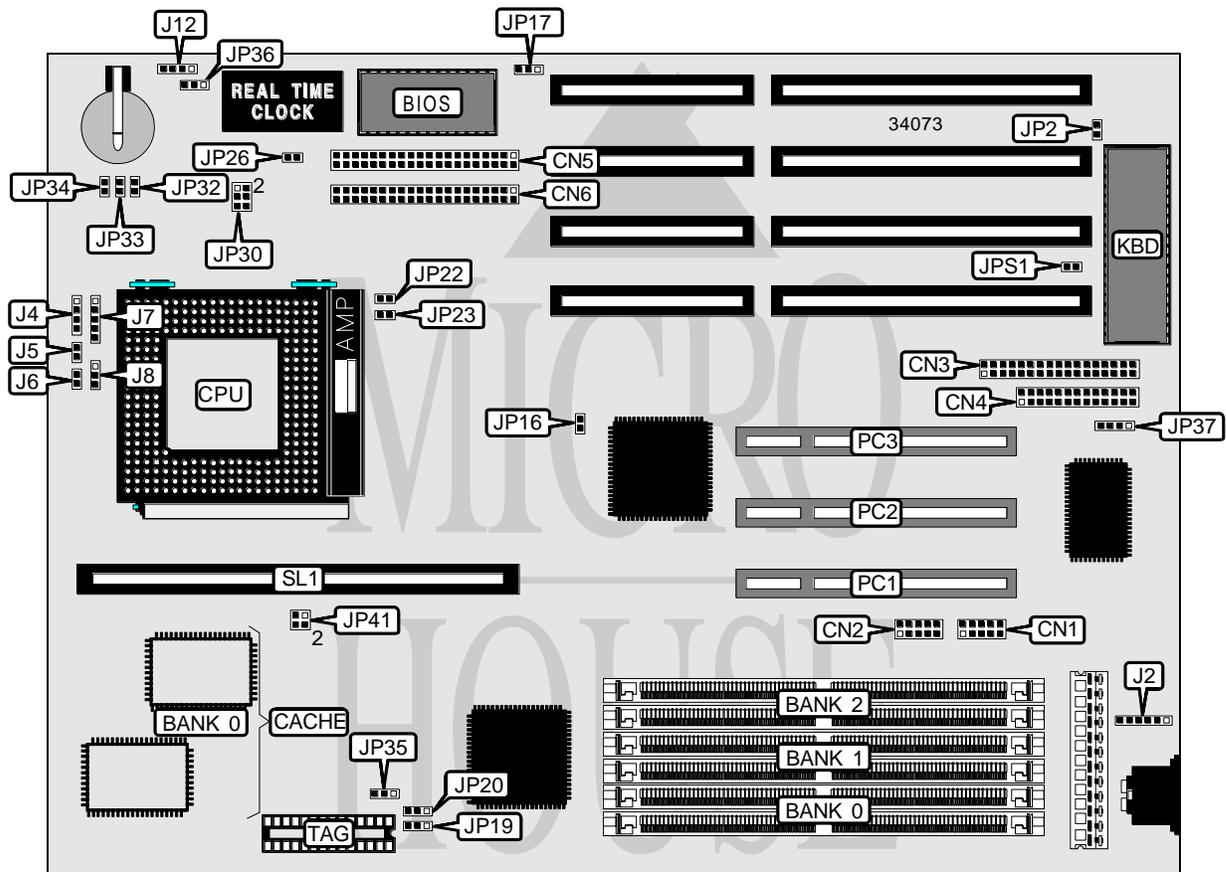
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CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
Serial port 1	CN1	Reset switch	J5
Serial port 2	CN2	IDE interface LED	J6
Floppy drive interface	CN3	Power LED & keylock	J7
Parallel port	CN4	Turbo LED	J8
IDE interface 2	CN5	Green PC connector	JP16
IDE interface 1	CN6	Chassis fan power	JP36
PS/2 mouse interface	J2	IR connector	JP37
Speaker	J4	32-bit PCI slots	PC1 – PC3

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
í CMOS memory normal operation	J12	Pins 2 & 3 closed
CMOS memory clear	J12	Pins 3 & 4 closed
Monitor type select color	JP2	Closed
Monitor type select monochrome	JP2	Open
PS/2 mouse IRQ12 enabled	JPS1	Closed
PS/2 mouse IRQ12 disabled	JPS1	Open
Flash BIOS voltage select 12v	JP17	Pins 1 & 2 closed
Flash BIOS voltage select 5v	JP17	Pins 2 & 3 closed
í Factory configured - do not alter	JP26	Unidentified
í Factory configured - do not alter	JP30	Unidentified

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) 2M x 36	None
24MB	(2) 1M x 36	(2) 1M x 36	(2) 1M x 36
24MB	(2) 2M x 36	(2) 1M x 36	None
32MB	(2) 4M x 36	None	None
32MB	(2) 1M x 36	(2) 1M x 36	(2) 2M x 36
32MB	(2) 2M x 36	(2) 2M x 36	None
40MB	(2) 1M x 36	(2) 4M x 36	None
48MB	(2) 1M x 36	(2) 1M x 36	(2) 4M x 36
48MB	(2) 2M x 36	(2) 4M x 36	None
48MB	(2) 2M x 36	(2) 2M x 36	(2) 2M x 36
64MB	(2) 8M x 36	None	None
64MB	(2) 2M x 36	(2) 2M x 36	(2) 4M x 36
64MB	(2) 4M x 36	(2) 4M x 36	None
72MB	(2) 1M x 36	(2) 8M x 36	None

J-MARK COMPUTER CORPORATION
J-656HXA

Size	Bank 0	Bank 1	Bank 2
DRAM CONFIGURATION (CON'T)			
72MB	(2) 4M x 36	(2) 4M x 36	(2) 1M x 36
80MB	(2) 1M x 36	(2) 1M x 36	(2) 8M x 36
80MB	(2) 2M x 36	(2) 8M x 36	None
80MB	(2) 4M x 36	(2) 4M x 36	(2) 2M x 36
96MB	(2) 2M x 36	(2) 2M x 36	(2) 8M x 36
96MB	(2) 4M x 36	(2) 8M x 36	None
96MB	(2) 4M x 36	(2) 4M x 36	(2) 4M x 36
128MB	(2) 16M x 36	None	None
128MB	(2) 4M x 36	(2) 4M x 36	(2) 8M x 36
128MB	(2) 8M x 36	(2) 8M x 36	None
136MB	(2) 1M x 36	(2) 16M x 36	None
136MB	(2) 8M x 36	(2) 8M x 36	(2) 1M x 36
144MB	(2) 1M x 36	(2) 1M x 36	(2) 16M x 36
144MB	(2) 2M x 36	(2) 16M x 36	None
144MB	(2) 8M x 36	(2) 8M x 36	(2) 2M x 36
160MB	(2) 2M x 36	(2) 2M x 36	(2) 16M x 36
160MB	(2) 4M x 36	(2) 16M x 36	None
160MB	(2) 8M x 36	(2) 8M x 36	(2) 4M x 36
192MB	(2) 4M x 36	(2) 4M x 36	(2) 16M x 36
192MB	(2) 8M x 36	(2) 16M x 36	None
192MB	(2) 8M x 36	(2) 8M x 36	(2) 8M x 36
256MB	(2) 8M x 36	(2) 8M x 36	(2) 16M x 36
264MB	(2) 16M x 36	(2) 16M x 36	(2) 1M x 36
272MB	(2) 16M x 36	(2) 16M x 36	(2) 2M x 36
288MB	(2) 16M x 36	(2) 16M x 36	(2) 4M x 36
320MB	(2) 16M x 36	(2) 16M x 36	(2) 8M x 36
384MB	(2) 16M x 36	(2) 16M x 36	(2) 16M x 36
Note: Board accepts EDO memory.			

Size	Bank 0	SL1	TAG
CACHE CONFIGURATION			
256KB (A)	(2) 32K x 32	Not installed	(1) 32K x 8
256KB (B)	None	256KB module installed	(1) 32K x 8
512KB (A)	(2) 32K x 32	256KB module installed	(1) 32K x 8
512KB (B)	(2) 64K x 32	Not installed	(1) 32K x 8

Size	JP19	JP20	JP35
CACHE JUMPER CONFIGURATION			
256KB (A)	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
256KB (B)	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
512KB (A)	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
512KB (B)	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed

J-MARK COMPUTER CORPORATION
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CPU SPEED SELECTION					
CPU speed	**Clock speed**	**Multiplier**	**JP22**	**JP23**	**JP41**
75MHz	50MHz	1.5x	Open	Open	1 & 2, 3 & 4
90MHz	60MHz	1.5x	Open	Open	1 & 2
100MHz	66MHz	1.5x	Open	Open	3 & 4
120MHz	60MHz	2x	Closed	Open	1 & 2
133MHz	66MHz	2x	Closed	Open	3 & 4
150MHz	60MHz	2.5x	Closed	Closed	1 & 2
166MHz	66MHz	2.5x	Closed	Closed	3 & 4
200MHz	66MHz	3x	Open	Closed	3 & 4
Note: Pins designated should be in the closed position.					

CPU VOLTAGE SELECTION			
Voltage	**JP32**	**JP33**	**JP34**
3.3v	Closed	Open	Open
3.45v	Open	Closed	Open
3.52v	Open	Open	Closed