JUKO LABORATORIES, LTD.
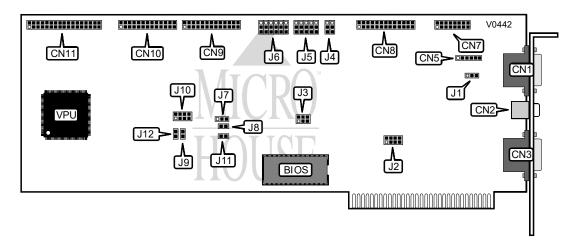# G7-B

Category	Video
Video Types Supported	Monochrome, CGA, EGA
Video Processor	Juko
Highest Resolution Supported	640 x 400
Data Bus Type	8-bit ISA
Memory Type	DRAM
Maximum Onboard Memory	256KB (location unknown)

CONNECTIONS			
Purpose	Location	Purpose	Location
9-pin video port	CN1	25-pin parallel port - internal	CN8
Composite video jack	CN2	25-pin serial port - internal	CN9
9-pin mouse port	CN3	25-pin serial port - internal	CN10
6-pin light pen connector	CN5	Control cable connector - floppy drive	CN11
16-pin game port	CN7		

COMPOSITE COLOR DISPLAY CONFIGURATIONS		
Function	Location	Setting
í Composite color selected	J1	Pins 1 & 2 closed
í Clock frequency is 14.31818 MHz	J3	Pins 1 & 2 closed
Composite color video mode selected	J5/SW3	Pins 2 & 3 closed
	J5/SW4	Pins 2 & 3 closed
	J5/SW5	Pins 1 & 2 closed

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COMPOSITE MONOCHROME DISPLAY CONFIGURATIONS		
Function	Location	Setting
Composite mono selected	J1	Pins 2 & 3 closed
í Clock frequency is 14.31818 MHz	J3	Pins 1 & 2 closed
Composite mono video mode selected	J5/SW3	Pins 2 & 3 closed
	J5/SW4	Pins 1 & 2 closed
	J5/SW5	Pins 2 & 3 closed

CGA DISPLAY CONFIGURATIONS		
Function	Location	Setting
í Clock frequency is 14.31818 MHz	J3	Pins 1 & 2 closed
í Vertical synchronize pulse is positive	J5/SW1	Pins 1 & 2 closed
í Horizontal synchronize pulse is positive	J5/SW2	Pins 1 & 2 closed
í CGA display mode selected	J5/SW3	Pins 1 & 2 closed
	J5/SW4	Pins 2 & 3 closed
	J5/SW5	Pins 1 & 2 closed

MONOCHROME DISPLAY CONFIGURATIONS		
Function	Location	Setting
Clock frequency is 16MHz	J3	Pins 3 & 4 closed
Vertical synchronize pulse is negative	J5/SW1	Pins 2 & 3 closed
í Horizontal synchronize pulse is positive	J5/SW2	Pins 1 & 2 closed
Mono display mode selected	J5/SW3	Pins 1 & 2 closed
	J5/SW4	Pins 1 & 2 closed
	J5/SW5	Pins 1 & 2 closed

640 X 400 COLOR DISPLAY CONFIGURATIONS		
Function	Location	Setting
Clock frequency is 23.4MHz	J3	Pins 5 & 6 closed
Vertical synchronize pulse is negative	J5/SW1	Pins 2 & 3 closed
Horizontal synchronize pulse is negative	J5/SW2	Pins 2 & 3 closed
640 x 400 display mode selected	J5/SW3	Pins 1 & 2 closed
	J5/SW4	Pins 1 & 2 closed
	J5/SW5	Pins 2 & 3 closed

MOUSE PORT (CN3) INTERRUPT SELECTION	
Setting	J2
í IRQ2	Pins 1 & 2 closed
IRQ3	Pins 3 & 4 closed
IRQ4	Pins 5 & 6 closed
IRQ5	Pins 7 & 8 closed

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MOUSE PORT MODE	
Setting	J6/SW1
í Enabled	Pins 1 & 2 closed
Disabled	Pins 2 & 3 closed

MOUSE PORT IRQ MATCHING				
Setting	J6/SW2	J6/SW3	J6/SW4	J6/SW5
í IRQ2	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
IRQ3	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
IRQ4	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
IRQ5	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed

PARALLEL PRINTER PORT (CN8) MODE	
Setting	J4/SW1
í enabled	Pins 1 & 2 closed
Disabled	Pins 2 & 3 closed

GAME PORT (CN7) MODE	
Setting	J4/SW2
í Enabled	Pins 1 & 2 closed
Disabled	Pins 2 & 3 closed

REALTIME CLOCK CONFIGURATIONS		
Function	Location	Setting
í Clock assigned as timer 1 (340-35F	J7	Pins 1& 2 closed
Clock assigned as timer 2 (240-25F	J7	Pins 2 & 3 closed
í Timer uses IRQ4	J10	Pins 1 & 2 closed
Timer uses IRQ4	J10	Pins 3 & 4 closed
Timer uses IRQ4	J10	Pins 5 & 6 closed
Timer uses IRQ4	J10	Pins 7 & 8 closed

SERIAL PORT 2 (CN9) CONFIGURATION		
ADDRESS/IRQ	J8	J9
2F8-2FF/IRQ4	Closed	Closed
Port disabled	Open	Open

SERIAL PORT 1 (CN10) CONFIGURATION		
ADDRESS/IRQ	11	12
3F8-3FF/IRQ4	Closed	Closed
Port disabled	Open	Open