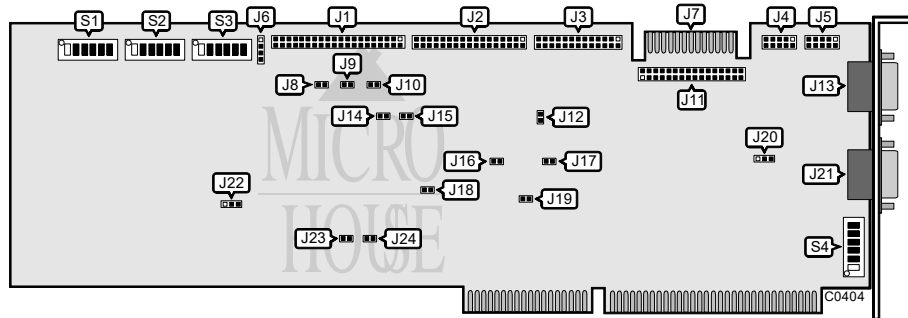


# MONOLITHIC SYSTEMS, INC. (COLORADO MSI) MICROPAQ 452 REV. B

Q1/94

Data bus: 16-bit, ISA  
 Size: Full-length, full-height card  
 Hard drive supported: Two IDE (AT) Interface drives  
 Floppy drives supported: Two 360KB, 720KB, 1.2MB, or 1.44MB drives



CONNECTIONS	
Function	Location
40-pin IDE(AT) Interface connector	J1
34-pin control cable connector - floppy drive	J2
26-pin parallel port (LPT1/2/3) - internal	J3
10-pin serial port 1 (COM1/2/3/4) - internal	J4
10-pin serial port 2 (COM1/2/3/4) - internal	J5
4-pin connector - Drive active LED	J6
28-pin VESA(VGA) feature connector - internal	J7
26-pin VESA(EGA) feature connector - internal	J11
15-pin analog VGA port - external	J13
9-pin digital EGA port- external	J21

USER CONFIGURABLE SETTINGS		
Function	Location	Setting
i Pin 34 on IDE interface grounded	J10	closed
Pin 34 on IDE interface not grounded	J10	open
i Floppy drive precompensation is 125ns	J12	open
Floppy drive precompensation is 187ns	J12	closed
i Hard drive enabled	J14	closed
Hard drive disabled	J14	open
i On-board video enabled	J15	closed
On-board video disabled	J15	open
i Floppy drive Interrupt IRQ6 enabled	J16	closed
Floppy drive Interrupt IRQ6 disabled	J16	open

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USER CONFIGURABLE SETTINGS		
Function	Location	Setting
í Single speed floppy drives supported	J17	open
Dual speed floppy drives supported	J17	closed
í 16-bit video bus enabled	J18	open
8-bit video bus enabled	J18	closed
í Floppy drive change signal sense enabled	J19	closed
Floppy drive change signal sense disabled	J19	open
í VGA clock enabled (normal operation)	J22	pins 1 & 2 closed
Feature connector clock enabled	J22	pins 2 & 3 closed
í Hard drive Interrupt IRQ14 enabled	J24	closed
Hard drive Interrupt IRQ14 disabled	J24	open

IDE IOCHRDY PIN SELECTION		
Function	J8	J9
í IDE IOCHRDY from IDE pin 21 enabled	off	on
IDE IOCHRDY from IDE pin 27 enabled	on	off
Pin 21 setting is for Seagate, CDC, Imprimis, and Miniscribe hard drives. Pin 27 setting is for Quantum hard drives. Conner and WD hard drives ignore the setting of these switches.		

SERIAL PORT 1 CONFIGURATION				
COM	S1/switch 1	S1/switch 2	S1/switch 3	S1/switch 4
í 1	on	off	off	off
2	off	on	off	off
3	off	off	on	off
4	off	off	off	on
Disabled	off	off	off	off

SERIAL PORT 1 (J4) INTERRUPT REQUEST		
IRQ	S1/switch 5	S1/switch 6
í 3	on	off
4	off	on
Disabled	off	off

PARALLEL PORT (J3) CONFIGURATION - S2			
LPT	S2/switch 1	S2/switch 2	S2/switch 3
í 1	on	off	off
2	off	on	off
3	off	off	on
Disabled	off	off	off

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PARALLEL PORT (J3) INTERRUPT REQUEST		
IRQ	S2/switch 5	S2/switch 6
7	off	on
5	on	off
Disabled	off	off

SERIAL PORT 2 CONFIGURATION				
COM	S3/switch 1	S3/switch 2	S3/switch 3	S3/switch 4
1	on	off	off	off
2	off	on	off	off
3	off	off	on	off
4	off	off	off	on
Disabled	off	off	off	off

SERIAL PORT 2 (J5) INTERRUPT REQUEST		
IRQ	S3/switch 5	S3/switch 6
4	off	on
3	on	off
Disabled	off	off

VIDEO DISPLAY CONFIGURATION						
Primary Adapter	Secondary Adapter	JP20	S4/1	S4/2	S4/3	S4/4
*Monochrome	EGA w/CGA 40 x 25	1 & 2	on	on	on	on
*Monochrome	EGA w/CGA 80 x 25	1 & 2	off	on	on	on
*Monochrome	EGA w/EGA 200 line	1 & 2	on	off	on	on
*Monochrome	EGA w/EGA 350 line	1 & 2	off	off	on	on
*CGA 40 x 25	EGA w/monochrome	2 & 3	on	on	off	on
*CGA 80 x 25	EGA w/monochrome	2 & 3	off	on	off	on
EGA w/CGA 40 x 25	*Monochrome or none	1 & 2	on	off	off	on
EGA w/CGA 80 x 25	*Monochrome or none	1 & 2	off	off	off	on
EGA w/EGA 200 line	*Monochrome or none	1 & 2	on	on	on	off
EGA w/EGA 350 line	*Monochrome or none	1 & 2	off	on	on	off
EGA w/monochrome	*CGA 40 x 25 or none	2 & 3	on	off	on	off
EGA w/monochrome	*CGA 80 x 25 or none	2 & 3	off	off	on	off
VGA enable (all other modes disabled)		S4/switch 5 on				
All other modes enable (VGA mode disabled)		S4/switch 5 off				
For JP20 pins designated should be in a closed position. When VGA mode is enabled, the settings of JP20 and S4/switch 1 - 4 are ignored. The options with a (*) in front of them require an add-on card to function.						

MISCELLANEOUS TECHNICAL NOTES	
The function of S2/switch 4 is undocumented. All other jumpers are for factory tests and should remain factory-configured.	

