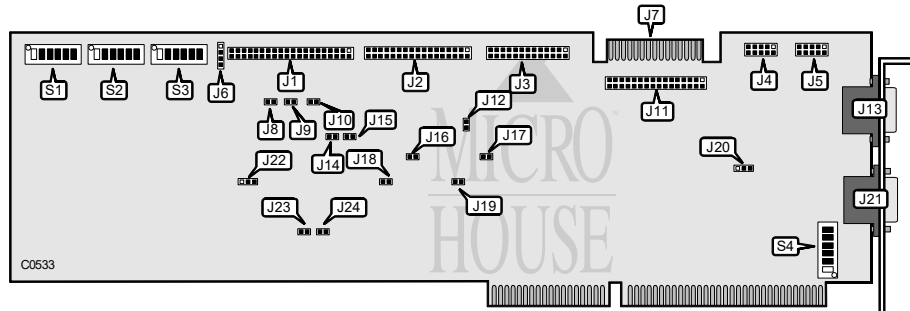# MONOLITHIC SYSTEMS, INC. (COLORADO MSI)
MICROPAQ 452

Q3/94

Data bus: 16-bit ISA
Size: Full-length, Full-height card
Hard drive supported: 2 IDE(AT) interface drives
Floppy drives supported: 360KB, 720KB, 1.2MB, 1.44MB

CONNECTIONS	
Function	Location
40-pin IDE(AT) interface connector	J1
34-pin control cable connector - floppy drive	J2
25-pin parallel port - internal	J3
9-pin serial port 1 - internal	J4
9-pin serial port 2 - internal	J5
4-pin connector - drive active LED	J6
VGA feature connector	J7
EGA feature connector	J11
15-pin analog video port	J13
15-pin digital video port	J21

USER CONFIGURABLE SETTINGS		
Function	Location	Setting
í IDE(AT) interface pin 34 grounded	J10	closed
IDE(AT) interface pin 34 not grounded	J10	open
í Floppy drive interface precompensation is 125ns	J12	open
Floppy drive interface precompensation is 187ns	J12	closed
í IDE(AT) interface enabled	J14	open
IDE(AT) interface disabled	J14	closed
í On-board video adapter enabled	J15	closed
On-board video adapter disabled	J15	open

MONOLITHIC SYSTEMS, INC. (COLORADO MSI)
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USER CONFIGURABLE SETTINGS(CONTINUED)		
Function	Location	Setting
í Floppy drive interface interrupt IRQ6 enabled	J16	closed
Floppy drive interface interrupt IRQ6 disabled	J16	open
í Single speed floppy drive	J17	open
Dual speed floppy drive	J17	closed
í 16-bit mode enabled	J18	open
8-bit mode enabled	J18	closed
í Floppy disk change signal enabled	J19	closed
Floppy disk change signal disabled	J19	open
í Monitor type select color	J20	pins 1 & 2 closed
Monitor type select monochrome	J20	pins 2 & 3 closed
í VGA clock enabled	J22	pins 1 & 2 closed
Feature clock enabled	J22	pins 2 & 3 closed
í Floppy drive interface enabled	J23	closed
Floppy drive interface disabled	J23	open
í IDE(AT) interface interrupt IRQ14 enabled	J24	closed
IDE(AT) interface interrupt IRQ14 disabled	J24	open
í Factory configured - do not alter	S4/6	N/A

VIDEO DISPLAY CONFIGURATION							
Primary	Alternate	J20	S4/1	S4/2	S4/3	S4/4	S4/5
MDA	EGA w/CD 40x25	pins 1 & 2	on	on	on	on	off
MDA	EGA w/CD 80x25	pins 1 & 2	off	on	on	on	off
MDA	EGA w/ED 200 ln	pins 1 & 2	on	off	on	on	off
MDA	EGA w/ED 350 ln	pins 1 & 2	off	off	on	on	off
CGA 40x25	EGA w/MD	pins 2 & 3	on	on	off	on	off
CGA 80x25	EGA w/MD	pins 2 & 3	off	on	off	on	off
EGA w/CD 40x25	MDA or none	pins 1 & 2	on	off	off	on	off
EGA w/CD 80X25	MDA or none	pins 1 & 2	off	off	off	on	off
EGA w/ED 200 ln	MDA or none	pins 1 & 2	on	on	on	off	off
EGA w/ED 350ln	MDA or none	pins 1 & 2	off	on	on	off	off
EGA w/MD	CGA 40x25 or none	pins 2 & 3	on	off	on	off	off
EGA w/MD	CGA 80x25 or none	pins 2 & 3	off	off	on	off	off
All VGA modes	N/A	N/A	on	N/A	N/A	N/A	N/A
Note: All pins designated should be placed in the closed position.							

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PARALLEL PORT CONFIGURATION

LPT	IRQ	S2/1	S2/2	S2/3	S2/4	S2/5	S2/6
í 1	IRQ7	on	off	off	N/A	off	on
2	IRQ5	off	on	off	N/A	on	off
3	IRQ7	off	off	on	N/A	off	on
Disabled	N/A	off	off	off	N/A	off	off

PRIMARY SERIAL PORT CONFIGURATION

Port 1 (J4)	IRQ	S1/1	S1/2	S1/3	S1/4	S1/5	S1/6
í COM1	IRQ4	on	off	off	off	off	on
COM2	IRQ3	off	on	off	off	on	off
COM3	IRQ4	off	off	on	off	off	on
COM4	IRQ3	off	off	off	on	on	off
Disabled	N/A	off	off	off	off	off	off

ALTERNATE SERIAL PORT CONFIGURATION

Port 2 (J5)	IRQ	S3/1	S3/2	S3/3	S3/4	S3/5	S3/6
í COM2	IRQ3	off	on	off	off	on	off
COM1	IRQ4	on	off	off	off	off	on
COM3	IRQ4	off	off	on	off	off	on
COM4	IRQ3	off	off	off	on	on	off
Disabled	N/A	off	off	off	off	off	off

IOCHRDY

Setting	J8	J9
í IOCHRDY signal comes from pin 21	open	closed
IOCHRDY signal comes from pin 27	closed	open